BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI

PETITION NO. /TL/2025

IN THE MATTER OF:

NER Expansion Transmission Limited **…Petitioner**

VERSUS

Central Transmission Utility of India Limited & Ors. **…Respondents**

INDEX

S.NO.	PARTICULAR	PAGE NO.
1.	Index	1 – 3
2.	Affidavit verifying Petition	4 – 6
3.	Memo of Parties	7 – 8
4.	Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003	9 – 22
5.	**Annexure P-1:** Proof of service	23
6.	**Annexure P-2 (Colly.):** Copy of Regulation 4 of the Transmission License Regulations (by way of selection through the process under the competitive bidding guidelines issued under section 63 of the Act)	24 – 28
7.	**Annexure P-3:** Copy of the minutes of the 32nd CMETS-NER meeting dated 26.06.2024	29 – 48
8.	**Annexure P-4:** Copy of 21st NCT meeting dated 06.08.2024	49 – 87
9.	**Annexure P-5:** Copy of the MOP Notification 30.08.2024	88 – 97
10.	**Annexure P-6:** Copy of the Certificate of Incorporation dated 06.12.2024 of the Petitioner company	98

11.	**Annexure P-7 (Colly.):** Copy of the Memorandum of Association along with the Articles of Association of the Petitioner company.	99 – 159
12.	**Annexure P-8 (Colly.):** Copies of the letters dated 14.10.2024 issued by the BPC, intimating this Hon'ble Commission and the Ministry of Power (MoP).	160 – 162
13.	**Annexure P-9 (Colly.):** Copies of the RfP dated 28.09.2024 with all the clarifications and amendments, along with the amendments for extension of bid submission and the Global Invitation for Qualification published in newspapers.	163 – 412
14.	**Annexure P-10:** Copy of the Letter of Intent dated 06.06.2025.	413 – 416
15.	**Annexure P-11:** Copy of Sterlite Grid 32 Limited's name change certificate.	417
16.	**Annexure P-12 (Colly.):** Copies of the CEA's letters dated 17.02.2025 and 16.04.2025, along with the BEC Certificate dated 02.06.2025.	418 – 422
17.	**Annexure P-13:** Copy of BPC's letter dated 06.06.2025 informing the Petitioner about the SPV acquisition price.	423 – 425
18.	**Annexure P-14 (Colly.):** Copies of the letter dated 01.07.2025 and 23.07.2025.	426 – 431
19.	**Annexure P-15:** Copy of letter dated 23.07.2025 issued by the BPC extending the timeline for SPV acquisition and Project documents' execution.	432
20.	**Annexure P-16** Copy of the SPA dated 23.07.2025 executed between the BPC and the Petitioner.	433 – 452
21.	**Annexure P-17:** Copy of TSA dated 23.07.2025 executed between Petitioner and Respondent No.1/CTUIL.	453 – 594
22.	**Annexure P-18:** Copy of the SLD of the transmission scheme.	595 – 598

23.	**Annexure P-19:** Copy of the Board Resolution dated 23.07.2025	599
24.	**Annexure P-20:** Form – I for Transmission Licence	600 – 602
25.	Vakalatnama	603 – 604
26.	Form Fee	605 – 607

Filed by



TRILEGAL
Advocates for the Petitioner
Prius Platinum, 1st Floor, Wing A & B
D3, District Centre, Saket
New Delhi – 110017

Date: 28.07.2025

Place: New Delhi

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI

PETITION NO. /TL/2025

IN THE MATTER OF:

Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited.

AND

IN THE MATTER OF:

NER Expansion Transmission Limited
RMZ Infinity, 5th Floor, Plot No.15,
Phase-IV, Udyog Vihar,
Gurugram, Haryana – 122008. **...Petitioner**

VERSUS

1. Central Transmission Utility of India Limited,
   Saudamini, Plot No.2, Sector-29,
   Gurgaon, Haryana – 122001.

2. PFC Consulting Limited
   First Floor, Urja Nidhi,
   1, Barakhamba Lane,
   Connaught Place, New Delhi – 110001.

3. Department of Power, Government of Arunachal Pradesh,
   Vidyut Bhawan, Zero Point Tinali,
   Itanagar, Arunachal Pradesh – 791111.

4. Manipur State Power Distribution Company Limited,
   3rd Floor, New Directorate Building, Near 2nd MR Gate,
   Imphal Dimapur Road,
   Imphal West, Manipur – 795001.

5. Power and Electricity Department, Mizoram, P&ED,
   Govt. of Mizoram, Kawlphetha Building,
   MINECO, Aizawl – 796001.

6. Department of Power, Government of Nagaland,

NER EXPANSION TRANSMISSION LIMITED

Electricity House, AG Colony,
Kohima, Nagaland – 797001.

7. Tripura State Electricity Corporation Limited,
Office of The Deputy General Manager (Commercial & Tariff),
Tripura State Electricity Corporation Limited (TSECL),
Agartala, Tripura - 799001.

8. Assam Power Distribution Company Limited,
Bijulee Bhawan, Paltan Nagar,
Guwahati, Assam – 781001.

9. Meghalaya Energy Corporation Limited,
Lumjingshai, Short Round Road,
Shillong, Meghalaya – 793001. **...Respondents**

AFFIDAVIT VERIFYING THE PETITION

I, T. Amarendranath Reddy, S/o late Shri T.S. Reddy, the Authorised Signatory of the Petitioner in the above Petition, having my office at RMZ Infinity, 5th Floor, Plot No.15, Phase-IV, Udyog Vihar, Gurugram, Haryana–122008, presently at New Delhi, do hereby solemnly affirm and state as follows:

1. That the deponent is the Authorized Signatory of the Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.

2. That the accompanying the Petition under Section Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited has been filed by my authorized representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.

3. That the contents of Para 1-23 to 32-35 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and

NOTARY PUBLIC GOVT OF INDIA Rubiya Yasmin Advocate Delhi R. No. 21630/2012

NER EXPANSION TRANSMISSION LIMITED

records maintained in the office and the contents of Para 24 to 31 of the Petition are believed to be true on the basis of the legal advice received.

4. That the annexures annexed to the Petition are correct and true copies of the respective originals.

5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.

NER EXPANSION TRANSMISSION LIMITED

DEPONENT

VERIFICATION

Verified at New Delhi on this 28 JUL 2025 day of July 2025, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

NER EXPANSION TRANSMISSION LIMITED

DEPONENT

NOTARY PUBLIC ★ GOVT. OF INDIA
Rubina Yasmin
Advocate
Area New Delhi
R. No. 2163/02

Identified the deponent who has signed/put T I in my presence
D/14731/2023

Shri... T. Surabrahmaly
S/o Shri T. S. Reddy
R/o
dentine. By Shri ... has solemnly affirmed before me at New Delhi on ... that the contents of the affidavit which has been read over and explained to him are true & correct to his knowledge

Solemnly affirmed before me & read over & explained to the deponent

Notary Public, Delhi

28 JUL 2025

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI

PETITION NO. /TL/2025

IN THE MATTER OF:

Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited.

AND

IN THE MATTER OF:

NER Expansion Transmission Limited ...**Petitioner**

VERSUS

Central Transmission Utility of India Limited & Ors. ...**Respondents**

MEMO OF PARTIES

IN THE MATTER OF:

NER Expansion Transmission Limited
RMZ Infinity, 5th Floor,
Plot No. 15, Udyog Vihar,
Gurugram, Haryana – 122008. ...**Petitioner**

VERSUS

1. Central Transmission Utility of India Limited,
   Saudamini, Plot No.2, Sector-29,
   Gurgaon, Haryana – 122001.

2. PFC Consulting Limited
   First Floor, Urja Nidhi,
   1, Barakhamba Lane,
   Connaught Place, New Delhi – 110001.

3. Department of Power, Government of Arunachal Pradesh,
   Vidyut Bhawan, Zero Point Tinali,
   Itanagar, Arunachal Pradesh – 791111.

4. Manipur State Power Distribution Company Limited.

NER EXPANSION TRANSMISSION LIMITED

3rd Floor, New Directorate Building, Near 2nd MR Gate,
Imphal Dimapur Road,
Imphal West, Manipur – 795001.

5. Power and Electricity Department, Mizoram, P&ED,
Govt. of Mizoram, Kawlphetha Building,
MINECO, Aizawl – 796001.

6. Department of Power, Government of Nagaland,
Electricity House, AG Colony,
Kohima, Nagaland – 797001.

7. Tripura State Electricity Corporation Limited,
Office of The Deputy General Manager (Commercial & Tariff),
Tripura State Electricity Corporation Limited (TSECL),
Agartala, Tripura - 799001.

8. Assam Power Distribution Company Limited,
Bijulee Bhawan, Paltan Nagar,
Guwahati, Assam – 781001.

9. Meghalaya Energy Corporation Limited,
Lumjingshai, Short Round Road,
Shillong, Meghalaya – 793001.

...Respondents

NER EXPANSION TRANSMISSION LIMITED

PETITIONER/
NER EXPANSION TRANSMISSION LIMITED

Filed by :

TRILEGAL
Advocates for the Petitioner
1st Floor, Wing A&B
Prius Platinum, D-3, District Centre
Saket, New Delhi – 110017

Place: New Delhi
Date: 28th July 2025

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI
PETITION NO. /TL/2025

IN THE MATTER OF:

Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited.

AND

IN THE MATTER OF:

NER Expansion Transmission Limited
RMZ Infinity, 5th Floor,
Plot No. 15, Udyog Vihar,
Gurugram, Haryana – 122008. **...Petitioner**

VERSUS

1. Central Transmission Utility of India Limited
Saudamini, Plot No.2, Sector-29,
Gurgaon, Haryana – 122001.

2. PFC Consulting Limited
First Floor, Urja Nidhi,
1, Barakhamba Lane,
Connaught Place, New Delhi – 110001.

3. Department of Power, Government of Arunachal Pradesh,
Vidyut Bhawan, Zero Point Tinali,
Itanagar, Arunachal Pradesh – 791111.

4. Manipur State Power Distribution Company Limited,
3rd Floor, New Directorate Building, Near 2nd MR Gate,
Imphal Dimapur Road,
Imphal West, Manipur – 795001.

5. Power and Electricity Department, Mizoram, P&ED,
Govt. of Mizoram, Kawlphetha Building,
MINECO, Aizawl – 796001.

6. Department of Power, Government of Nagaland,
Electricity House, AG Colony,
Kohima, Nagaland – 797001.

7. Tripura State Electricity Corporation Limited,

NER EXPANSION TRANSMISSION LIMITED

Office of The Deputy General Manager (Commercial & Tariff),
Tripura State Electricity Corporation Limited (TSECL),
Agartala, Tripura - 799001.

8. Assam Power Distribution Company Limited,
Bijulee Bhawan, Paltan Nagar,
Guwahati, Assam – 781001.

9. Meghalaya Energy Corporation Limited,
Lumjingshai, Short Round Road,
Shillong, Meghalaya – 793001.

...Respondents

PETITION FOR GRANT OF TRANSMISSION LICENSE TO NER EXPANSION TRANSMISSION LIMITED

MOST RESPECTFULLY SHOWETH:

A. BACKGROUND

1. The present Petition is being filed by the Petitioner, NER Expansion Transmission Limited ("**NERETL**"), under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 ("**Act**") read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 ("**Transmission License Regulations**") for grant of transmission license to it for the establishment of Inter-State transmission system ("**ISTS**") -"**North Eastern Region Expansion Scheme-XXV** (**NERES-XXV**) **Part-A**" ("**Project**") through tariff based competitive bidding process on build, own, operate and transfer ("**BOOT**") basis and to provide transmission services as per the terms of the Transmission Service Agreement ("**TSA**") dated 23.07.2025. The details of the Project and Scheduled Commercial Operation Dates ("**SCOD**") of various Project elements as per Schedule 2 of TSA are as follows:

NER EXPANSION TRANSMISSION LIMITED

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective element
a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from effective date (23.07.2028)	100%	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
b)	LILO of both circuits of existing Bongaigaon (POWERGRID)-Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
c)	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			
d)	Installation of 420 kV, 1 x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) - Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from			



	Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) -Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) - Balipara (POWERGRID) 400 kV D/C (Quad) line			

Note:

i. Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

ii. The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.

NER EXPANSION TRANSMISSION LIMITED

(i) Brief background of the Petitioner:

2. It is submitted that the NERETL, i.e., the Petitioner, is a Special Purpose Vehicle ("**SPV**") established to implement the Project under Section 63 of the Act.

(ii) Brief background of the Respondent(s)/ Long Term Transmission Customers:

3. Respondent No. 1 is the Central Transmission Utility of India Limited ("**CTUIL**"), established under Section 38 of the Act for planning and co-ordination of the inter-state transmission system ("**ISTS**").

4. Respondent No. 2 is PFC Consulting Limited ("**PFCCL**"), which has been appointed as the Bid Process Coordinator for the TBCB process.

5. Respondent No. 3 to Respondent No. 9 are the ISTS beneficiaries of the North-Eastern Region.

(iii) Proof of serving a copy of the Petition to all the Respondents:

6. The proof of service is attached hereto and marked as **ANNEXURE P-1.**

(iv) Status of the Petitioner: Individual/Partnership Firm/Private Limited Company/Public Limited Company:

7. It is submitted that the Petitioner is a Public Limited Company.

(v) Brief description of important events/ bidding process for award of the assets under consideration in the present Petition

8. Provided under Detailed Petition head below.

(vi) Proof of Eligibility in accordance with Regulation 4 of the Central Electricity Regulatory Commission (Procedure, Terms and Conditions

NER EXPANSION TRANSMISSION LIMITED

for grant of Transmission Licence and other related matters) Regulations, 2024

9. The proof of eligibility as per Regulation 4 of the Transmission License Regulations (by way of selection through the process under the competitive bidding guidelines issued under section 63 of the Act) is annexed hereto and marked as **ANNEXURE P – 2 (Colly.).**

B. DETAILED PETITION

10. It is submitted that the need for implementation of the Project was agreed in the 32nd Consultation Meeting for Evolving Transmission Schemes in North-Eastern Region ("**CMETS-NER**") held on 26.06.2024, and the Project was approved for implementation through the TBCB route by the National Committee for Transmission ("**NCT**") during its 21st meeting dated 06.08.2024.

A copy of the minutes of the 32nd CMETS-NER meeting dated 26.06.2024 is annexed herewith and marked as **ANNEXURE P – 3.**

A copy of 21st NCT meeting dated 06.08.2024 is annexed herewith and marked as **ANNEXURE P – 4.**

11. It is submitted that subsequently, the Ministry of Power ("**MoP**") issued the "*Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects*" dated 10.08.2021 under Section 63 of the Act ("**TBCB Guidelines**"). Further, *vide* its Notification No. CG-DL-E-31082024-256815 dated 30.08.2024 ("**MOP Notification**"), in exercise of the powers conferred by paragraph 3.2 of the said TBCB Guidelines, the MOP notified PFC Consulting Limited ("**PFCCL**") as the Bid Process Co-ordinator ("**BPC**") for conducting the bid process for selection of the Transmission Service Provider ("**TSP**") for establishment of the Project.

NER EXPANSION TRANSMISSION LIMITED

A copy of the MOP Notification 30.08.2024 is annexed herewith and marked as **ANNEXURE P – 5.**

12. On 06.12.2024, the BPC incorporated the Petitioner company under the Companies Act, 2013, as its wholly owned subsidiary, to initiate various activities for the execution of the Project and to subsequently act as the TSP.

A copy of the Certificate of Incorporation dated 06.12.2024 of the Petitioner company is annexed herewith and marked as **ANNEXURE P-6.**

A copy of the Memorandum of Association along with the Articles of Association of the Petitioner company is annexed herewith and marked as **ANNEXURE P-7 (Colly.).**

13. As per the requirements under the TBCB guidelines, the BPC had intimated this Hon'ble Commission, on 14.10.2024, regarding the initiation of the bid process and shared all the notices so published. Notably, on 14.10.2024, the BPC informed the MoP regarding the bidding process and requested the RfP Notification and the RfP documents to be uploaded on MoP's website.

Copies of the letters dated 14.10.2024 issued by the BPC, intimating this Hon'ble Commission and MoP, are annexed herewith and marked as **ANNEXURE P – 8 (Colly.).**

14. The BPC initiated the TBCB process in terms of the TBCB Guidelines through a single-stage two envelope process of Request for Proposal ("**RFP**"). The RFP was issued on 28.092024. The said RFP notification was duly published in four (4) national newspapers *viz*. Hindustan Times (English), Hindustan Times (Hindi), the Mint (English), Hindustan Times Mumbai (English), and Financial Times Worldwide (All Editions) on 28.09.2024. The same has also been made available on the website of PFC (https://www.pfcclindia.com).

Copies of the RfP dated 28.09.2024 with all the clarifications and amendments issued thereto, along with the amendments for extension of bid

NER EXPANSION TRANSMISSION LIMITED

submission and the Global Invitation for Qualification published in newspapers, are annexed herewith and marked as **ANNEXURE – 9 (Colly.).**

15. As per the RFP, the successful bidder was required to acquire 100% of the equity shares of the Petitioner company along with all its related assets and liabilities.

16. It is submitted that. Resonia Limited **("Resonia"),** erstwhile Sterlite Grid 32 Limited, was one of the bidders who had submitted their bid for the Project. Resonia submitted its Technical and Financial Bid-Initial Offer on 13.02.2025, and after the conclusion of the e-reverse auction process, on 05.03.2025, Resonia emerged as the successful bidder, having quoted the lowest levelized transmission charges of INR 1894.40 million per annum as per Clause 3.6.1. of the RfP.

17. Thereafter, Resonia was issued a Letter of Intent ("**LOI**") on 06.06.2025 by the BPC which was unconditionally accepted by the Petitioner. On 13.01.2025, Sterlite Grid Limited32 was renamed as Resonia Limited.

    A copy of the LOI dated 06.06.2025 is annexed herewith and marked as **ANNEXURE P - 10**.

    A copy of Sterlite Grid 32 Limited's name change certificate is annexed herewith and marked as **ANNEXURE P –11.**

18. It is most respectfully submitted that the bidding was done on the basis of the existing Standard Bidding Documents ("**SBD**"). In this regard, the Bid Evaluation Committee ("**BEC**"), constituted as per Central Electricity Authority's ("**CEA**") letter dated 17.02.2025 and re-constituted as per CEA's letter 16.04.2025, issued a certificate on 02.06.2025 ("**BEC Certificate**"), *inter alia*, confirming that the entire bidding process had been carried out in accordance with the TBCB Guidelines.

NER EXPANSION TRANSMISSION LIMITED

Copies of the CEA's letters dated 17.02.2025 and 16.04.2025, along with the BEC Certificate dated 02.06.2025, are annexed herewith and marked as **ANNEXURE P–12 (Colly.)**.

19. Moreover, the transmission charges for the Project will be shared and recovered as per the mechanism devised by this Hon'ble Commission, which is the Point of Connection ("**PoC**") mechanism. The transmission scheme would be included in the National Transmission Pool for recovering transmission charges through PoC mechanism. The charges will be recovered from the designated ISTS customers and disbursed to the Petitioner.

20. Further, *vide* letter dated 06.06.2025, BPC informed Resonia that the acquisition price for the SPV is INR 12,89,97,283 and requested Resonia to make the requisite payment.

A copy of the letter dated 06.06.2025 is annexed herewith and marked as **ANNEXURE P – 13**.

21. *Vide* letter dated 01.07.2025, the MoP provided approval of the Government for the transfer of shares held by the BPC in Petitioner Company to 'Resonia Limited', the Successful Bidder. Thereafter, by letter dated 23.07.2025, Resonia furnished a Contract Performance Guarantee ("**CGP**") dated 17.07.2025 for an amount up to and not exceeding to INR 11.80 Crore (Rupees Eleven Crore and Eighty Lakhs), with the expiry date of the CPG being 31.10.2028, further extendable up to 31.10.2029 by the Nodal Agency, i.e., CTUIL/the Respondent No. 1. Subsequently, an amount of INR 11,78,07,961(after deduction of TDS @ 10% amounting to INR 1,11,89,322 from the acquisition price of INR 12,89,97,283) was paid by Resonia to the BPC on 23.07.2025 *vide* transaction ID no. M3203692.

Copies of the letter dated 01.07.2025 and 23.07.2025 are annexed herewith and marked as **ANNEXURE P-14 (Colly.)**.

NER EXPANSION TRANSMISSION LIMITED

22. It is submitted that Clause 2.7.2. and Clause 2.15.2 of the RfP, provides for a timeline after issuance of the LOI, which requires signing of the Project documents under the RFP and acquisition of the SPV within 10 days of the issuance of the LOI. *Vide* letter dated 23.07.2025, the BPC in terms of Clause 2.15.2, extended the date up to 23.07.2025 for completion of activities by the successful bidder.

A copy of letter dated 23.07.2025 issued by the BPC extending the timeline for SPV acquisition and Project documents' execution is annexed herewith and marked as **ANNEXURE P-15.**

23. After completing all procedural requirements as specified in the bid documents, the acquisition of the SPV was done, and Resonia acquired 100% equity shareholding in the Petitioner Company on 23.07.2025 upon the execution of the Share Purchase Agreement ("**SPA**") between the BPC and the Petitioner. Moreover, the Petitioner executed the TSA on 23.07.2025 with Respondent No. 1/ CTUIL.

A copy of the SPA dated 23.07.2025 executed between the BPC and the Petitioner is annexed herewith and marked as **ANNEXURE P – 16**.

A copy of TSA dated 23.07.2025 is annexed herewith and marked as **ANNEXURE P - 17**.

A copy of the SLD of the transmission scheme is enclosed and marked as **ANNEXURE P- 18.**

24. It is humbly submitted that Section 14 of the Act provides that the Appropriate Commission may, on an application made under Section 15 of the Act, grant licence to any person to transmit electricity as a transmission licensee, in any area as may be specified in the licence. The word 'person' has been defined in Section 2(49) of the Act to include any company or body corporate or association or body of individuals, whether incorporated or not, or an artificial juridical person. Therefore, the Petitioner in accordance with the TSA and

NER EXPANSION TRANSMISSION LIMITED

under Section 14 of the Act, is filing the present Petition, *inter-alia* seeking grant of a Transmission Licence for the Project explained above.

25. Further, it is most respectfully submitted that Section 15(1) of the Act provides that every application under Section 14 shall be made in such manner and in such form as may be specified by the Hon'ble Commission and shall be accompanied with such fees as may be prescribed under Transmission Licence Regulations. As per Regulation 4 of the Transmission Licence Regulations, a person selected through the process under the guidelines for competitive bidding is eligible for grant of licence. It is submitted that the Petitioner company, incorporated under the Companies Act, 2013 is a wholly owned subsidiary of Resonia who has been selected through the TBCB process, in accordance with the TBCB Guidelines and thus, eligible for the issuance of a Transmission Licence.

26. It is submitted that the grant of transmission license is a condition under the TSA and is also a requirement in law, without which the Petitioner cannot proceed with the establishment of the Project.

27. It is submitted that this Hon'ble Commission has prescribed Form-I and the fee for making filing application, seeking grant of a Transmission Licence. It is submitted that the requisite fee for filing the present petition has been paid by the Petitioner.

    A copy of the Board Resolution dated 23.07.2025 is annexed herewith and marked **ANNEXURE P–19**.

28. Pursuant to the above, the Petitioner, in accordance with Regulation 5(3) of the Transmission Licence Regulation, has uploaded the complete application along with all the annexures and enclosures on the e-filing portal of this Hon'ble Commission, so that the same is served electronically to all the beneficiaries of the Project, registered on the e-filing portal. Further, the Petitioner has served the copy of the present Petition through email, on the

NER EXPANSION TRANSMISSION LIMITED

beneficiaries, who are not registered on the e-filing portal of this Hon'ble Commission (if any).

29. It is submitted that as per Regulation 5(4), the copy of the complete Petitions has been posted on the website of the Petitioner (https://resonia.com), in English and in vernacular language and the Petition shall remain on the Petitioner's website, till the time the licence is issued to the Petitioner, or the application is rejected by this Hon'ble Commission.

30. It is submitted that the Petitioner shall, in future, comply with all the other requirements from time to time, as stipulated under the Act and the Transmission Licence Regulations, passed by this Hon'ble Commission, and place a report of compliance with the same before this Hon'ble Commission.

31. It is submitted that simultaneously with the present Petition, the Petitioner has also filed another Petition before this Hon'ble Commission for adoption of the transmission charges for the Project.

32. In view of the above, it is submitted that the Petitioner satisfies all the conditions for the grant of an inter-State Transmission Licence under the Act and the Transmission Licence Regulations for the establishment of the Project. Therefore, the Petitioner humbly prays that the aforementioned petition be taken on record and its prayers be allowed.

(i) As per Form-I of the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2024.

33. It is submitted that duly filled Form – I for Transmission Licence is annexed herewith and marked as **ANNEXURE P- 20.**

(ii) Any other submissions as required under the Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2024.

NER EXPANSION TRANSMISSION LIMITED

34. N.A.

C. LIMITATION

35. The Petitioner declares that the present Petition has been filed without any delay and within the period of limitation.

D. PRAYERS

36. In view of the facts and circumstances stated above, the Petitioner respectfully pray that the Hon'ble Commission may be pleased to:

a. Grant Transmission Licence to the Petitioner;

b. Allow sharing and recovery of Transmission Charges for Inter-State Transmission System for establishment of *Transmission System for North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A* as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and any other amendments issued thereon from time to time by this Hon'ble Commission;

c. Condone any inadvertent errors omissions/ errors/ shortcomings and permit the Petitioner to add/ change/ modify/ alter these filings and make further submissions as may be required at a future date; and

d. Pass such other order(s) as this Hon'ble Commission may deem fit and proper in the facts and circumstances of this case.

IV. ANNEXURES

30. As per the Index.

V. PROOF OF PAYMENT

37. The Petitioner respectfully submits that the prescribed fee of INR 1,00,000 (Rupees One Lakh Only) has been paid by the Petitioner and the Unique

NER EXPANSION TRANSMISSION LIMITED

Online Payment Transaction Number is **ICICN52025072500725972 dated 25.07.2025.**

Dated at New Delhi this 28th day of July 2025.

Trilegal
Counsel for the Petitioner

NER EXPANSION TRANSMISSION LIMITED

Petitioner

DECLARATON

The Petitioner(s) above named hereby solemnly declare(s) that nothing material has been concealed or suppressed and further declare(s) that the enclosures and typed set of material papers relied upon and filed herewith are true copies of original(s)/fair representation of the originals/true translation thereof.

Verified at New Delhi on this 28th day of July 2025.

Trilegal
Counsel for the Petitioner

NER EXPANSION TRANSMISSION LIMITED

Petitioner

VERIFICATION

Verified at New Delhi on this 28th day of July 2025, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

NER EXPANSION TRANSMISSION LIMITED

Petitioner

Date: 28th July 2025
Place New Delhi

ANNEXURE P-1

Dated: June 02, 2025

CERTIFICATE BY THE BID EVALUATION COMMITTEE

Sub.: Selection of Successful Bidder as Transmission Service Provider to establish "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

It is hereby certified that:

1. The entire bid process has been carried out in accordance with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 and as amended from time to time.

2. Resonia Limited emerged as the Successful Bidder after the conclusion of e-reverse bidding process with the lowest Quoted Transmission Charges of Rs.1,894.40 million per annum.

3. The quoted tariff is higher than the Levelised Tariff calculated based on CERC norms considering the Capital Cost for the Project 'North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A' as assessed by Cost Committee. The quoted tariff discovered through e-reverse bidding process is acceptable.

Name of Committee Member	Signature
Sh. Rajesh Kumar Singh, General Manager, SBI Commercial Client Group Regional office - II New Delhi - Chairman	
Sh. V. Muncha, Director, NERPC - Member	
Sh. Balabanta Basumatary, CGM (O&M, CAR), AEGCL - Member	
Sh. Rahul Raj, Director, PSPA-II Division, CEA - Member	
Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA - Member	
Sh. Neeraj Singh, Chairman, NER EXPANSION TRANSMISSION LIMITED, New Delhi - Convener Member	

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतः स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No. 04/25-26/ITP-95/RFP **June 06, 2025**

To
Mr. Mohit Mathur, **E-mail: resonia.bd@resonia.com**
Resonia Limited,
DLF Cyber Park, Tower – B,
9th Floor, Udyog Vihar Phase-III,
Sector-20, Gurugram – 122008,
Haryana.

Sub.: Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"- Letter of Intent

Dear Sir,

We refer to:

1. The Request for Proposal document dated September 28, 2024 issued to **'Resonia Limited'** as regards participation in the international competitive bidding process for Transmission Scheme for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**", and as amended till the bid deadline including all correspondence/ clarifications / amendments exchanged between **'Resonia Limited'** and PFC Consulting Limited in regard thereto (hereinafter collectively referred to as the "**Final RFP**");
2. The offer of **'Resonia Limited'** by way of a Technical Bid pursuant to (1) above submitted on February 13, 2025 in response to the Final RFP.
3. The offer of **'Resonia Limited'** by way of Financial Bid-Initial Offer submitted on February 13, 2025 in response to the Final RFP.
4. The offer of **'Resonia Limited'** by way of a Financial Bid-Final Offer Submitted during e-Reverse Auction process concluded on March 05, 2025 in response to the Final RFP.
5. The Technical Bid as at S.No. (2) above and the Financial Bid as at S.No. (3) & (4) above, hereinafter collectively referred to as the "Bid".

This is to inform you that the process of evaluating bids received pursuant to the Final RFP, including the Bid, has been concluded. We are pleased to inform you that your proposal and offer received by way of the "Bid" has been accepted and **'Resonia Limited'** is hereby declared as the Successful Bidder as per Clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the "LoI") is being issued.

This LoI is based on the Final RFP and you are requested to please comply with the following:

a) Acknowledging its issuance and unconditionally accepting its contents and recording "Accepted unconditionally" under the signature of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to PFC Consulting Limited within seven (07) days of the date of issuance of LoI. This LoI is issued to you in duplicate.

b) Completion of various activities as stipulated in the Final RFP including, in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP, within the timelines as prescribed therein.

It may be noted that PFC Consulting Limited has the rights available to them under the Final RFP, including rights under Clause 2.15.5 and Clause 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this LoI are based on the Bid submitted by you as per the Final RFP including the Transmission charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of each transmission element and the Project as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP is annexed herewith as **Schedule-A** and incorporated herein by way of reference.

Yours sincerely,
For PFC Consulting Limited

(Naveen Kumar)
General Manager

Enclosures:

- **Schedule A** – Quoted Transmission Charges and the Scheduled COD of each Transmission Element and the Project submitted in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP

Copy to:

1. **Chairman and Managing Director, Power Finance Corporation Limited**, "Urjanidhi", 1, Barakhamba Lane, Connaught Lane, New Delhi – 110 001
2. **Director (Transmission), Ministry of Power**, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001
3. **Chief Engineer (PSPA-I) and Member Secretary (NCT), Central Electricity Authority**, 3rd Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066
4. **Chief Operating Officer (COO), Central Transmission Utility of India Limited (CTUIL)**, 5th-10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001
5. **Secretary, Central Electricity Regulatory Commission**, 6th, 7th & 8th Floors, World Trade Center, Tower-B, Nauroji Nagar, New Delhi – 110029

SCHEDULE - A

(Page 1 of 2)

1. **Quoted Transmission Charges as per Annexure-21-Format For Financial Bid**

Quoted Transmission Charges: Rs.1894.40 Million Per Annum

SCHEDULE-A
(Page 2 of 2)

1. **Scheduled COD of each transmission Element and the Project as per Format 1 of Annexure-8 of RFP**

S. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from SPV transfer	100%	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
c)	=Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			
d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) –Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line			

सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)
(भारत सरकार का उद्यम)
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A wholly owned subsidiary of Power Grid Corporation of India Limited)
(A Government of India Enterprise)

संदर्भ/Ref: CTU/NE/00/32nd CMETS-NER

दिनांक/Date: 11-07-2024

वितरण सूची के अनुसार/ As per Distribution List

विषय/ Subject: उत्तर पूर्वी क्षेत्र में पारेषण योजनाओं के विकास के लिए 32वीं परामर्श बैठक के कार्यवृत्त (सीएमईटीएस-एनईआर) / Minutes of 32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER)

महोदय/महोदया/ Sir/ Ma'am,

उत्तर पूर्वी क्षेत्र में पारेषण योजनाओं के विकास के लिए **32वीं** परामर्श बैठक **26th जून, 2024** को वीडियो कॉन्फ्रेंसिंग के माध्यम से आयोजित की गई थी। इस संबंध में बैठक के कार्यवृत्त संलग्न है। यही CTUIL की वेबसाइट (*www.ctuil.in >> ISTS Planning & Coordination >> Consultation Meeting for ISTS >> North Eastern Region*) पर भी उपलब्ध है।

The **32nd** Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER) was held on **26th June, 2024** through video conferencing. In this regard, please find enclosed minutes of the meeting. The same is available on CTUIL website (*www.ctuil.in >> ISTS Planning & Coordination >> Consultation Meeting for ISTS >> North Eastern Region*)

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,

for मनीष 11/07/2024

(राजेश कुमार) / (Rajesh Kumar)
वरिष्ठ महाप्रबंधक/ Sr. General Manager (TP-III & CP)

Encl.: as above

A. वितरण सूची / Distribution List:

Chief Engineer I/c (PSP&A-II) Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110066	**Member Secretary** North Eastern Regional Power Committee (NERPC) Meghalaya State Housing Finance Co-operative Society Ltd. Building Nongrim Hills, Shillong, Meghalaya – 793003
Director (SO) Grid Controller of India Ltd. 9th Floor, IFCI Towers, 61, Nehru Place, New Delhi-110016	**Executive Director** North Eastern Regional Load Despatch Centre Meghalaya State Housing Finance Co-operative Society Ltd. Building Nongrim Hills Shillong, Meghalaya – 793003
Managing Director Manipur State Power Company Ltd. (MSPCL) Electricity Complex Patta No. 1293 under 87(2) Khwai Bazar, Keishampat Imphal West, Manipur – 795001	**Managing Director** Tripura Power Transmission Limited (TPTL) Urja Bhawan, 79 Tilla, Agartala Tripura – 799006
Managing Director Assam Electricity Grid Corporation Limited Bijulee Bhawan, Paltan Bazar Guwahati, Assam – 781001	**Engineer-in-Chief** Power & Electricity Department Kawlphetha Building New Secretariat Complex, Khatla Aizawl, Mizoram – 796001
CMD Meghalaya Energy Corporation Limited Lum Jingshai, Short Round Road Shillonq (Meghalaya) – 793001	**Chief Engineer (T&G)** Department of Power Electricity House, A.G. Colony Kohima, Nagaland – 797001
Chief Engineer (Power) Vidyut Bhawan, Department of Power Zero Point Tinali Itanagar, Arunachal Pradesh – 791111	**Director (Projects)** Power Grid Corporation of India Ltd. "Saudamini", Plot No. 2, Sec-29, Gurugram Haryana – 122001

Minutes of 32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER)

1. Confirmation of minutes of the 31st meeting

1.1. CTU informed that minutes of the 31st meeting of CMETS-NER held on 29-05-2024 were issued vide letter dated 10-06-2024.

As no comment were received, the minutes of 31st CMETS-NER were confirmed as circulated.

A. Connectivity and GNA related matters

CTU informed that no new Connectivity/GNA application in NER has been received in the month of May 2024.

B. ISTS expansion schemes in North Eastern Region

2. Reconductoring of Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line with HTLS conductor – Agenda by NER

2.1. CTU informed that the matter is under deliberation from 26th CMETS-NER. The input on the matter provided by DoP, Nagaland and MSPCL in the 28th CMETS-NER are given below:

Sl. No.	Line	Line length (km)	Existing conductor & thermal rating of line (ambient & max. operating temp.)	From end line bay rating	To end line bay rating	Feasible rating of HTLS for reconductoring (A)
1	Kohima – Karong 132kV S/c line **(Jointly owned by DoP, Nagaland and MSPCL in Nagaland and Manipur respectively)**	MSPCL portion: 41.375km	ACSR Panther 395 Amps at 65°C 487 Amps at 75°C	**Bay: DoP, Nagaland** CT: 250/1 WT: NA CB: 2000A Isolator: 1250A	**Bay: MSPCL** CT: 400/1 WT:NA CB:145kV, 2000A Isolator: 125kV, 800A	HTLS Panther Equivalent (1000 A)
		DoP, Nagaland portion: 20km	ACSR Panther Ampacity: 371 Amps at 75° C			Panther equivalent HTLS Conductor (800 Amps)

2.2. MSPCL had informed in the 28th CMETS-NER that MSPCL portion of the line has been recently renovated under NERPSIP and rating of the line was provided as about 90MVA at 65°C and about 111MVA at 75°C. If the line loading is limited due to old conductor in the Nagaland portion of the line, the Nagaland section can also be renovated including restringing of conductor with rating commensurate with rating of conductor on MSPCL side. DoP, Nagaland had informed that line loading is limited to 40MW.

2.3. It was noted in the 29th CMETS-NER that various new strengthening are coming up in Nagaland including around Kohima area viz. (a) New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line along with 220/132kV substation at New Kohima (Nagaland) [expected to be completed shortly] and (b) Kohima – Pfutsero – Meluri – Kiphire section is being operated at 132kV level and works are underway to operate Kiphire – Tuensang – Mokokchung 66kV section also at 132kV level, which is expected to be completed by Dec 2024. Then it was decided that a joint study may be carried out with all the expected systems coming up in Nagaland to ascertain requirement of strengthening/reconductoring of Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line.

2.4. Studies were carried out for 2028-29 time-frame on ISTS Rolling Plan study files by CTU and it has been observed that under all the nine scenarios, power flow is well within acceptable limit on the subject line. Study results given below were presented in the 30th CMETS-NER:

Power flow on Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line				
	Base Case (MW)	**N-1: Outage of Zhadima-Kohima (MW)**	**N-1: Outage of Kohima-Dimapur (MW)**	**N-1-1: Outage of Zhadima-Kohima & Kohima-Dimapur (MW)**
Scenario-1	19.9	6.9	19.6	-18.2
Scenario-2	19.7	7.1	19.4	-17.5
Scenario-3	15.1	5	15.1	-13.2
Scenario-4	20	6.9	19.7	-18.5
Scenario-5	17.7	6.8	17.7	-13.2
Scenario-6	12.9	4.7	13.3	-7.9
Scenario-7	15.8	4.1	15.4	-18.3
Scenario-8	20.3	4.9	19.3	-28.4
Scenario-9	8.9	2.3	8.5	-11.3

2.5. In 30th CMETS-NER, following was deliberated and agreed:

- It was mentioned that as the power requirement of both the states though this line is less than 80MW (considering 371A rating) considering contingency, which could be met through ACSR Panther conductor, DoP, Nagaland may re-stringing the line with ACSR Panther conductor alongwith replacement of existing CT at Kohima (DoP, Nagaland) end of Kohima – Karong 132kV S/c line with rating commensurate with ampacity of ACSR Panther conductor in order to increase the capacity of this line and optimally utilize the system. Reconductoring will necessitates MSPCL to again replace conductor

on their portion of the line which has been recently renovated. NERPC also suggested that DoP, Nagaland may restring their portion of line with new ACSR Panther conductor to match with the rating of MSPCL portion.

- DoP, Nagaland had mentioned that the existing Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line is passing through Kohima city and with growth of habitation low ground clearance issues have cropped up in the existing line corridor at various places. Accordingly, reconductoring with HTLS has been proposed to overcome this issue as well. Further, they suggested to carry out other contingencies (N-1 and N-1-1) also. Therefore, it was suggested that section of the Kohima – Karong 132kV line falling in the inhabited areas in and around Kohima where there are clearance issues may be restrung with HTLS conductor and remaining portion of the line may be restrung with ACSR Panther conductor.
- In the meeting, following was decided:
  - (a) CTU shall share the study files to DoP, Nagaland for review of the modelled intra-state system and loads.
  - (b) DoP, Nagaland shall provide additional list of N-1 and N-1-1 contingencies to be carried out.
  - (c) Joint study meeting shall be convened, or the study results would be presented in the next CMETS-NER.
  - (d) DoP, Nagaland shall explore the possibility of restringing of certain portion of Kohima – Karong line falling in the inhabited areas in and around Kohima to overcome the issue of lower ground clearance. Line length to be restrung with HTLS needs to be identified.

2.6. In the 31st CMETS-NER, DoP Nagaland mentioned that they have also carried out the studies on the shared PSSE files and as such no constraints were observed even under contingencies. Accordingly, as deliberated in the previous CMETS-NER, for the Nagaland portion of said line, the section lying in the habitation which may face clearance issues may be reconductored with HTLS and remaining section may be restrung with regular ACSR Panther. Further, the CT installed at Kohima end has recently been replaced with rating of 600A, accordingly, the same is not required to be replaced.

2.7. Subsequently, DoP, Nagaland vide email dated 06-06-2024 provided the details of the sections which need to be restrung with HTLS and that with ACSR Panther. The same is at **Annexure-V**. From the details it is observed that out of 20.893km, 16.588km needs to be strung with HTLS and 4.305km with ACSR Panther. Further, the ACSR portion is also not contiguous, it is scattered across the line section i.e. the line section will have HTLS – ACSR – HTLS – ACSR – HTLS and so on (refer **Annexure-V**). It was envisaged during deliberation that HTLS requirement would be only for small portion, however, from the inputs it is understood that HTLS is required for considerable portion of the line (about 80%) to meet the clearance issue as per inputs from DoP, Nagaland.

2.8. DoP, Nagaland mentioned that without HTLS, clearance issue cannot be overcome. Further, having both ACSR in intermediate sections may lead to implementation issues. Accordingly, after detailed deliberations it was noted that DoP, Nagaland will restring their portion of line with HTLS of rating commensurate with rating of ACSR Panther conductor and CT rating on MSPCL side. Further, DoP, Nagaland updated the bay equipment rating at Kohima end, which is updated in the table below:

Sl. No.	Line	Line length (km)	Existing conductor & thermal rating of line (ambient & max. operating temp.)	From end line bay rating	To end line bay rating
1	Kohima – Karong 132kV S/c line **(Jointly owned by DoP, Nagaland and MSPCL in Nagaland and Manipur respectively)**	MSPCL portion: 41.375km	ACSR Panther 395A at 65°C & 487A at 75°C	**Bay: DoP, Nagaland** CT: 600/1 WT: 1250A CB: 2000A Isolator: 1250A	**Bay: MSPCL** CT: 400/1 WT:NA CB:145kV, 2000A Isolator: 125kV, 800A
		DoP, Nagaland portion: 20km	ACSR Panther Ampacity: 371A at 75° C		

2.9. NERPC enquired about the OPGW availability in the Nagaland portion (Miao to Kohima) of the Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line. In reply to this DoP, Nagaland stated that OPGW in the Nagaland portion i.e. Miao to Kohima is not available. Accordingly, NERPC suggested to install the OPGW and associated equipment in the Nagaland portion. DoP, Nagaland agreed to the same.

2.10. It was noted that DoP, Nagaland, shall carryout the following works in their portion of Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line:

(a) Reconductoring of Nagaland portion of Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line with HTLS of rating commensurate with rating of ACSR Panther conductor and CT rating on MSPCL side, in order to meet the clearance issues on Nagaland side.

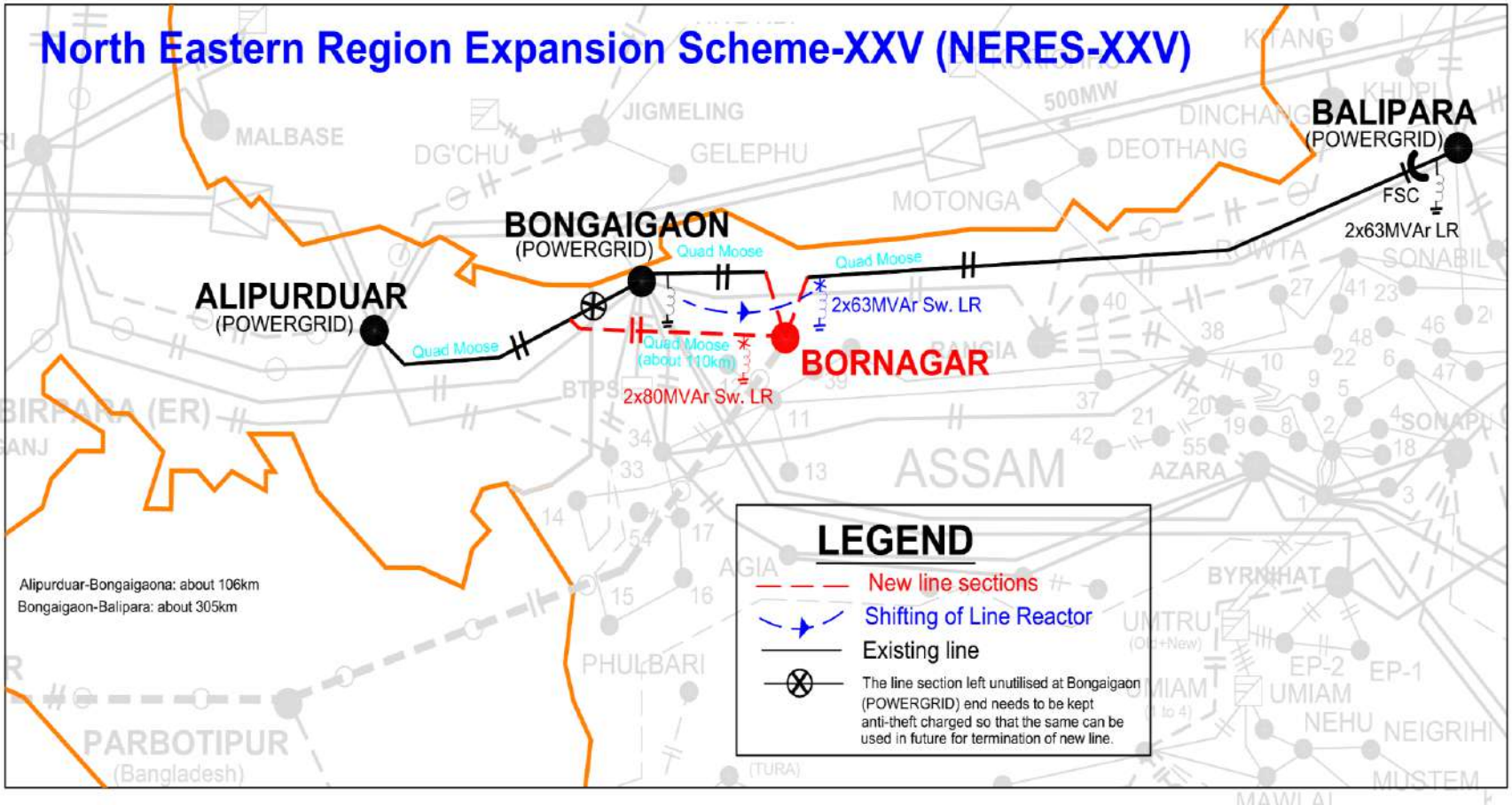
(b) Installation of OPGW and associated equipment in the Nagaland portion of Kohima (DoP, Nagaland) – Karong (MSPCL) 132kV line and integration of the same with MSPCL side for completion of the communication link.

Note: Vide email dated 10-07-2024, DoP, Nagaland has confirmed that OPGW is not available in their portion of line and MSPCL, Manipur has confirmed that OPGW for their portion of line is covered in NERPSIP scheme.

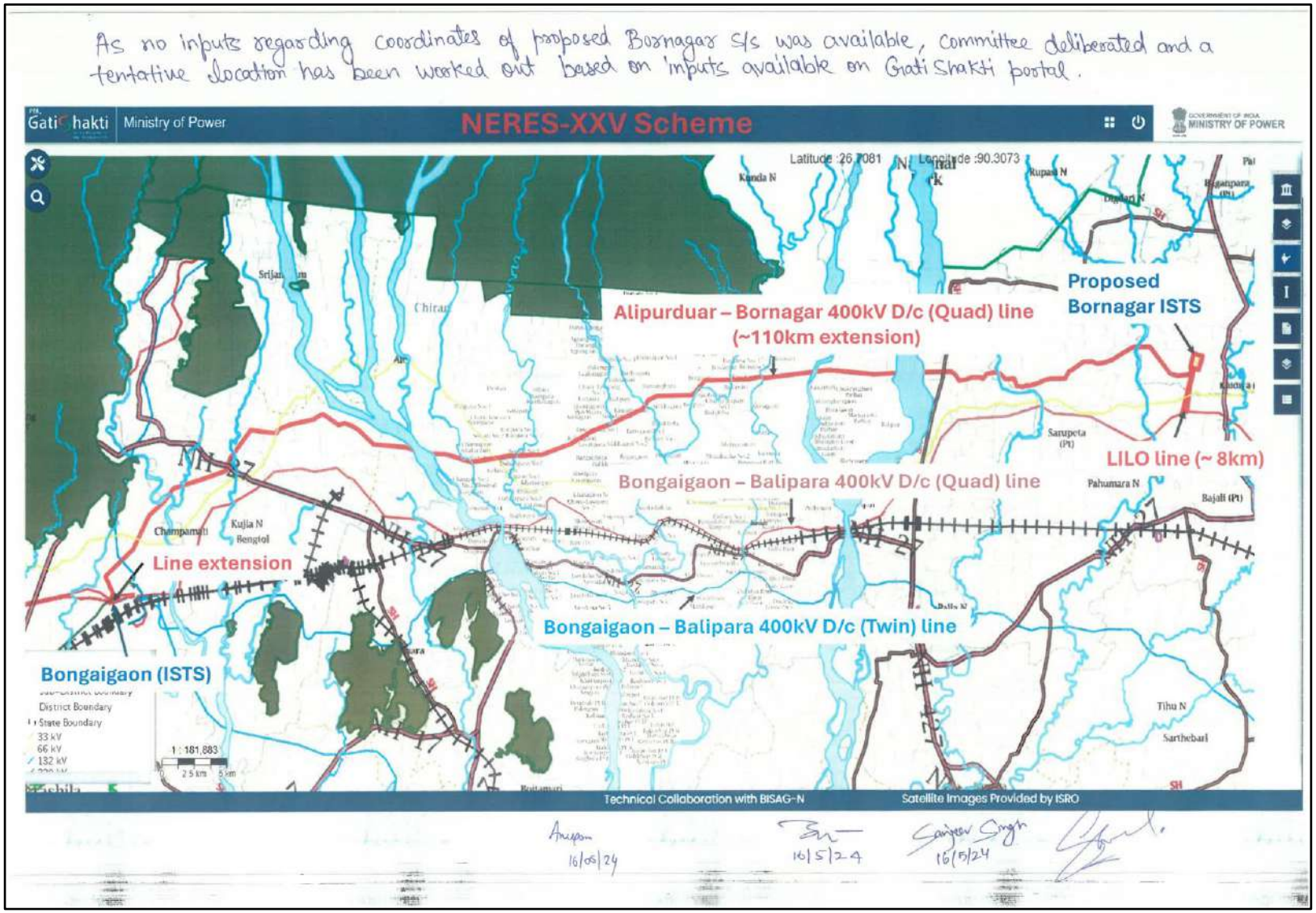
3. Modification in the scope of works of NERES-XXV scheme

3.1. CTU informed that considering the importance of need of additional synchronous feed to the NER grid through inter-regional lines, in case of contingencies, in the 26th CMETS-NER held on 27-12-2023 establishment of a new 765/400/220kV substation (initially operated at 400kV level) at Bornagar in Assam was agreed under NERES-XXV scheme with LILO of both circuits of

Bongaigaon – Balipara 400kV D/c (Quad) line at Bornagar and establishment of Alipurduar – Bornagar 400kV D/c (Quad) line by shifting of the existing Alipurduar – Bongaigaon 400kV D/c (Quad) line from Bongaigoan S/s to Bornagar S/s.

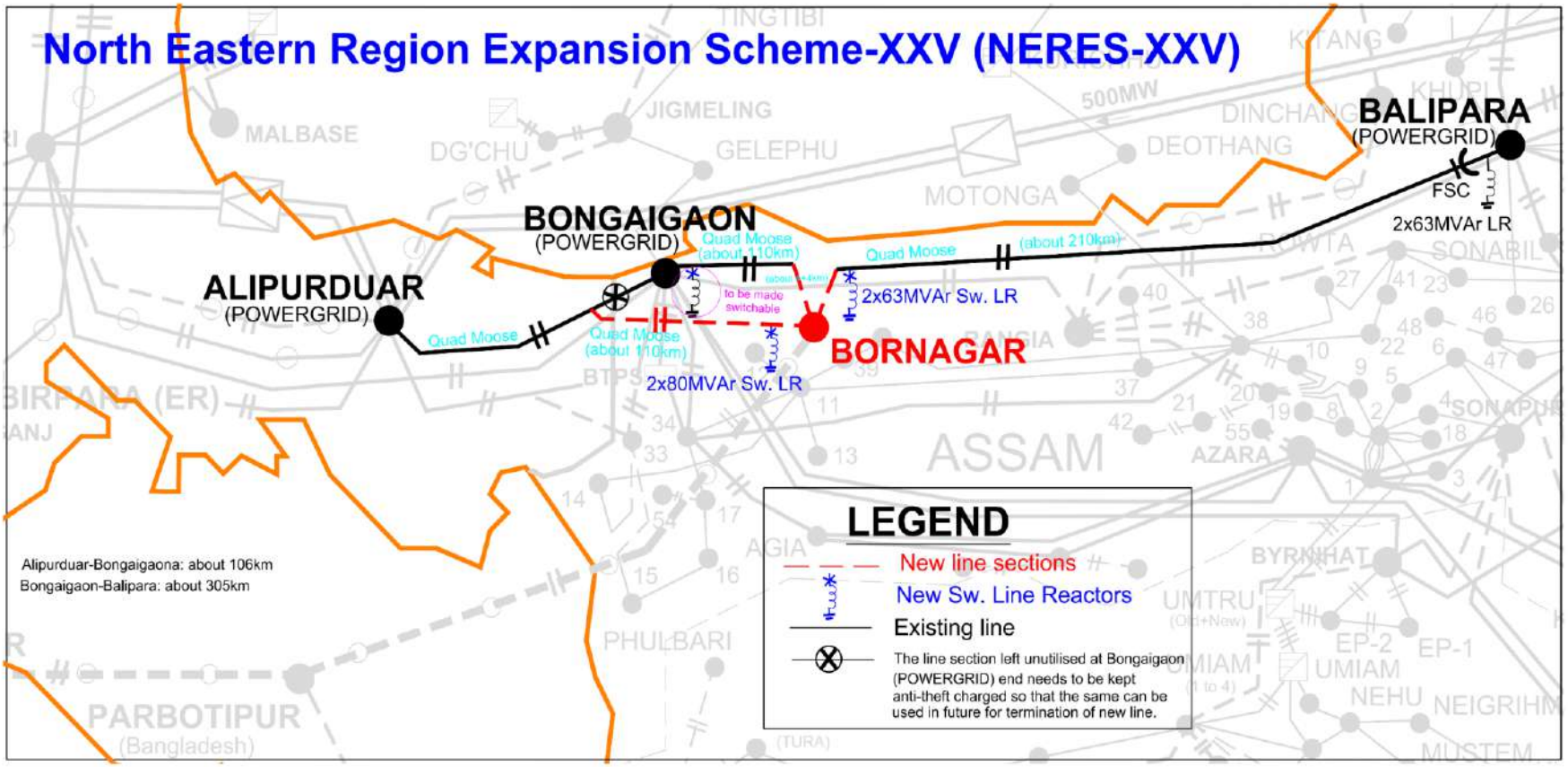


3.2. CTU also informed that after detailed analysis in the PM-GatiShakti portal with consideration of habitation, forest, river, railways, highways etc. it was observed that the location near to 132kV existing Bornagar (AEGCL) substation may not be feasible for a 765/400/220kV Bornagar S/s. Therefore, location of Bornagar S/s may be shifted to other location, resulting in change of earlier planned line lengths. This has necessitated review of reactive compensation requirement as well as installation of NGR along with line reactors. Revised proposed location of Bornagar S/s and expected line lengths is depicted in the schematic below (screenshot of PM-GatiShakti):



3.3. CTU informed that after considering new location of Bornagar S/s it has been observed that line length of Bongaigaon – Bornagar section formed after LILO of Bongaigaon – Balipara 400kV D/c (Quad) line at Bornagar S/s is expected to be about 110km. Therefore, the existing fixed line reactors of 63MVAr at Bongaigaon (POWERGRID) S/s end in Bongaigaon

(POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line may not be shifted to Bornagar S/s and the same may be made switchable at Bongaigaon end for operational flexibility. POWERGRID has been requested to confirm ***"Whether the 63MVAr fixed line reactor installed at Bongaigaon end in both circuits of the existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line can be made switchable?"***. Further, the line length of Bornagar (ISTS) – Balipara (POWERGRID) 400kV D/c (Quad) line would be now about 210km. Considering the line length, line reactors at both ends of the line would be required. Accordingly, new switchable line reactor (along with NGR and NGR bypass arrangement) would be required at Bornagar (ISTS) S/s end in the Bornagar (ISTS) – Balipara (POWERGRID) 400kV D/c (Quad) line formed after LILO of Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line. Schematic of revised scope of works is shown below:



3.4. POWERGRID confirmed the availability of space for making the existing 63MVAr fixed line reactor installed at Bongaigaon end in both circuits of the existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line as switchable. Further, it was mentioned that provision for NGR bypass arrangement may also be kept.

3.5. In view of the above, following modified scope of works was agreed to be taken up under North Eastern Region Expansion Scheme-XXV (NERES-XXV) with implementation timeframe of 30 months from date of allocation:

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.
(a)	Establishment of new 400kV Bornagar (ISTS) switching station in Assam (765kV and 220kV levels to be established in future) **Additional space for future expansion:** • 6x1500MVA, 765/400kV ICTs (19x500MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500MVA, 400/220kV ICTs along with associated ICT bays at both voltage levels • 765kV line bays (along with space for switchable line reactor) for future lines: 8 nos. • 400kV line bays (along with space for switchable line reactor) for future lines: 8 nos. • 220kV line bays: 10 nos. • 4x330MVAr, 765kV Bus Reactors (13x110MVAr single phase including one spare unit) along with associated bays • 3x125MVAr, 420kV Bus Reactors along with associated bays • 765kV Bus Sectionaliser: 1 set • 400kV Bus Sectionaliser: 1 set • 220kV Bus Sectionaliser: 1 set • 220kV Bus Coupler bays: 2 no.	• 420kV, 1x125MVAr Bus Reactor: 2 no. • 400kV bus reactor bays: 2 no. • 400kV line bays: i) 2 no. with provision for installation of 1x80MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 no. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line at Bornagar (ISTS)] iii) 2 no. with provision for installation of 1x63MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line at Bornagar (ISTS)]

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.
	• 220kV Transfer Bus Coupler bays: 2 no.	
(b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line at Bornagar (ISTS)	• About 8 km (4km Loop-in + 4km Loop-out)
(c)	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line	• About 110km additional line section
(d)	Installation of 420kV, 1x80MVAr switchable line reactor (along with 500ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	• 420kV, 1x80MVAr switchable line reactor (along with 500ohm NGR and NGR bypass arrangement) - 2 no. • Switching equipment for switchable line reactor of 420kV, 1x80MVAr - 2 no.
(e)	Installation of 420kV, 1x63MVAr switchable line reactor (along with 400ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line	• 420kV, 1x63MVAr switchable line reactor (along with 400ohm NGR and NGR bypass arrangement) - 2 no. • Switching equipment for switchable line reactor of 420kV, 1x63MVAr - 2 no.
(f)	Conversion of existing 420kV, 1x63MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400kV D/c line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement	• Switching equipment for conversion of existing fixed line reactor to switchable line reactor along with implementation of NGR bypass arrangement - 2 no.

Note:

(i) #Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement.

(ii) The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.

4. Status of downstream 220kV or 132kV network by STUs from the various commissioned and under-construction ISTS substations in NER

4.1. Numbers of ISTS sub-stations have been commissioned and some are under construction for which the downstream system is being implemented by the STUs. Based on the information provided by the states, updated information on planned/under-construction downstream system is given at **Annexure-II**.

5. Status of 400kV substations and other important elements being implemented by STUs in NER under intra-state schemes to be connected through ISTS

5.1. Various 400kV substations have been approved in the intra-state strengthening schemes in NER having interconnection with ISTS grid involving LILO of ISTS lines or direct connection to ISTS substations. Status of such intra-state substations as per inputs provided by states is given at **Annexure-III**.

6. Status of space allocated at various ISTS substations to STUs for implementation of line bays under intra state system) for their intra state lines

6.1. Space at various ISTS substations have been allocated to STUs for creation of line bays for termination of their new intra-state lines. List of such ISTS substations and update provided by states regarding implementation timeline is given at **Annexure-IV**.

*****

Annexure-I

List of participants in the
32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER)

Sl. No.	Name (Sh./Smt.)	Designation	Organization	Email id
1.	Rajesh Kumar	Sr. GM	CTU	rajeshkumar@powergrid.in
2.	Manish Ranjan Keshari	Chief Manager	CTU	manish.keshari@powergrid.in
3.	Abhilash Thakur	Asst. Manager	CTU	abhilash.28@powergrid.in
4.	Amit Kumar	Engineer	CTU	emailamit0014@powergrid.in
5.	Divesh Kamdar	Engineer	CTU	diveshkamdar.powergrid.in
6.	Vikash Shankar	AD-I/AEE	NERPC	shankar.vikash308@gov.in
7.	Bimal Swargiary	DGM	NERLDC, Grid-India	bimal.swargiary@grid-india.in
8.	Manjeet Choudhary	Deputy Manager	NERLDC, Grid-India	manjeet@grid-india.in
9.	Sidharth Kumar saha	DGM	POWERGRID	sk.saha@powergrid.in
10.	Bikram Bordoloi	DGM	AEGCL	bikram.bordoloi@aegcl.oc.in
11.	Neelkamal Sarma	DM	AEGCL	neelkamal.sarma@aegcl.co.in
12.	Laltlanthanga	SE	P&ED, Mizoram	eincplanning@gmail.com
13.	H Lalruatkima	SE	SLDC, Mizoram	msldc.circle@gmail.com
14.	Pulovi Sumi	SDO	DoP, Nagaland	puloviswu1@gmai.com
15.	Shuwatho Katiry	JE	DoP, Nagaland	shuwathokatiry@gmail.com
16.	P. Yaiphaba	DGM	MSPCL	dgm.transplg.mspcl@gmail.com
17.	Nirupam Guha	AGM	TPTL	agmtc11@gmail.com

Annexure-II

Status of Downstream Transmission Network in NER

Sl. No.	ISTS S/s	State	Voltage ratio, Trans. Cap	Down-stream Voltage level (kV)	Unutilised bays	Status of ISTS bay	STU Lines for unutilised bays	Status of Lines	
								Date of Award	Completion schedule
1	New Mariani (POWERGRID)	Assam	400/220kV, 2x500MVA	220	2	Commissioned	New Mariani (POWERGRID) – Diphu (Assam) 220kV D/c line	Plan for route survey from Diphu to New Mariani is underway. The transmission route traverses designated forest area. Survey work is completed only funding is pending.	Three years from date of LoA. Completion is expected by 2028.
2	New Kohima (TBCB)	Nagaland	400/220kV, 2x500MVA	220	2	Commissioned	New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line (2.5 ckm)	Feb 2021	Implementation of line differential protection is under process. PTCC clearance is awaited. Line is expected to be charged in Sept 2024.
3	Nangalbibra (TBCB)	Meghalaya	220/132kV, 2x160MVA	132	2	Under Construction (June 2024)	Nangalbibra (ISTS) – Nangalbibra (MePTCL) 132kV D/c (Single HTLS-800A) line: about 5km	Tender document to be opened.	*24 months from award. Till completion of original line, an interim arrangement has been proposed to CEA by MePTCL vide letter dated 25-06-2024. CEA vide letter dated 05-07-2024 has mentioned that “In view of utilisation of ISTS asset and to enhance reliability of power supply in the western parts of Meghalaya the interim arrangement as proposed by MePTCL i.e. “LILO of Mendipathar – Nangalbibra (MePTCL) 132 kV S/c line at Nangalbibra (ISTS)

Sl. No.	ISTS S/s	State	Voltage ratio, Trans. Cap	Down-stream Voltage level (kV)	Unutilised bays	Status of ISTS bay	STU Lines for unutilised bays	Status of Lines	
								Date of Award	Completion schedule
									substation" is in order. However, the LILO should be made with Single Moose or equivalent conductor. Further, MePTCL should endeavour to implement the approved system at the earliest."
				220	2		Nangalbibra (ISTS) – New Shillong 220kV D/c line	To be implemented through intra-state TBCB route. TBCB guidelines under approval. Tentative completion schedule is 2028.	

**CTU mentioned that till now MePTCL had been informing that downstream line shall be completed within six (6) months from award, however, now 24 months is being intimated. Accordingly, CTU requested MePTCL to expedite the implementation of their scope of works and also take up the matter with ISTS licensee (M/s NBTL) regarding issues, if any, with copy to CTU.*

Annexure-III

Status of 400kV substations and other important elements being implemented in NER under intra-state schemes to be connected to ISTS

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
A	**Assam (to be implemented by AEGCL)**			
I	**Rangia**	400/220kV, 2x500MVA	19-03-2024	2 years from the date of contract start date.
a)	LILO of both circuits of Bongaigaon – Balipara 400kV D/c (Twin Moose) line at Rangia (OPGW in scope)	400kV D/C		
II	**Khumtai**	400/220/132kV, 2x500MVA + 2x160MVA	Project proposal is submitted to GoI for 10% Gross Budgetary Support-NER for funding. However, 220kV part is under construction by M/s RS Infra Pvt Ltd under ongoing AIIB scheme and work is in progress.	May 2026
a)	Khumtai (AEGCL) – Biswanath Chariyali (PG) 400kV D/c line	400kV D/c	Survey work completed. Tender to be floated after finalization of fund allotment.	
III	**Upgradation of Gohpur S/s from AIS to GIS**	-	Contract awarded to M/s Sumaja Electroinfra Pvt Ltd. Construction work is going on.	June 2025
a)	2 no. 132kV GIS line bays at Gohpur for termination of LILO of one circuit of Biswanath Chariali – Itanagar 132kV D/c line ***Note: Line works under ISTS through TBCB has been completed.***	132kV		
IV	**Upgradation of Sonapur S/s from AIS to GIS**	400/220kV, 2x500MVA	Tender evaluation is going on.	2 years from the date of contract start date
a)	LILO of Silchar (PG) – Byrnihat (MePTCL) 400kV S/c line at Sonapur	LILO of 400kV S/c		
B	**Tripura (to be implemented by TPTL)**			
I	**Surajmaninagar (TPTL)**	400/132kV, 2x315MVA	Now, JV will not be formed, and this work shall be implemented by TPTL after receipt of formal approval from the Govt. of Tripura. Funding has been requested from MoDONER under PM-DeVINE scheme.	12 months from Date of Award
a)	LILO of both circuits of Surajmaninagar (ISTS) – Palatana 400kV D/c line at Surajmaninagar (TPTL) S/s: Under POWERGRID scope	400kV D/c line	-	ISTS line works: Completed ISTS bay works: Not started due to non-commencement of

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
				sub-station work by TPTL.
C	**Nagaland**			
I	**New Kohima (Zhadima) 220/132kV S/s**	**-**	**-**	Substation is ready.
a)	LILO of one ckt of Misa-Dimapur 220kV D/c at Zhadima (60km loop-in and 60km loop-out)	220kV	Awarded. Under implementation.	Work is delayed due to RoW issues in forest area. Expected to be completed Oct 2024.

Annexure-IV

Space allocated at various ISTS substations to STUs for implementation of line bays under intra state system for their intra state lines

Sl. No.	Substation/ Location	Space for	Date of award of line and bays	Completion Schedule	Agreed in CMETS-ER
1.	Surajmaninagar (ISTS)	2 nos. 132kV lines bays for termination of LILO of 2nd circuit of Surajmaninagar (TPTL) – Bodhjungnagar 132kV D/c line at Surajmaninagar (ISTS)	-	Estimate is under preparation and to be taken up under NER 2030 plan.	10th

Annexure-V (Page 1 of 2)

STRENGTHENING OF 132kV KOHIMA - KARONG WITH HTLS/ACSR PANTHER CONDUCTOR

SL	Tower Number	Tower Coordinate	Span Between Tower (metre)		Length (metre) of HTLS (487A)	Length (metre) of ACSR Panther (487A)	Number of Long Rod Polymer Insulator	Remark
1	AP51 (Kohima)	25°39'17.00"N 94° 5'41.39"E	AP51 - AP50	121	121		6	Old Ministers Hill colony, Kohima
2	AP50	25°39'14.55"N 94° 5'43.85"E	AP50 - AP49	89	89		6	Old Ministers Hill colony, Kohima
3	AP49	25°39'12.12"N 94° 5'43.12"E	AP49 - AP48	157	157		6	Old Ministers Hill colony, Kohima
4	AP48	25°39'7.96"N 94° 5'43.51"E	AP48 - AP47	180	180		6	Old Ministers Hill colony, Kohima
5	AP47	25°39'3.81"N 94° 5'46.25"E	AP47 - AP46	385		385	6	
6	AP46	25°38'55.46"N 94° 5'53.51"E	AP46 - AP45	336		336	6	
7	AP45	25°38'53.16"N 94° 6'3.42"E	AP45 - AP44	100	100		6	Aradura colony, Kohima
8	AP44	25°38'52.78"N 94° 6'6.44"E	AP44 - AP43	403	403		6	Aradura colony, Kohima
9	AP43	25°38'52.98"N 94° 6'18.63"E	AP43 - AP42	216	216		6	Aradura colony, Kohima
10	AP42	25°38'47.37"N 94° 6'21.11"E	AP42 - AP41	428	428		6	Aradura colony, Kohima
11	AP41	25°38'36.71"N 94° 6'26.64"E	AP41 - AP40	422	422		6	New Reserve Colony, Kohima
12	AP40	25°38'25.88"N 94° 6'31.42"E	AP40 - AP39	1470	1470		6	New Reserve Colony, Kohima
13	AP39	25°37'45.49"N 94° 6'34.00"E	AP39 - AP38	428	428		6	Phesama Village

STRENGTHENING OF 132kV KOHIMA - KARONG WITH HTLS/ACSR PANTHER CONDUCTOR

SL	Tower Number	Tower Coordinate	Span Between Tower (metre)		Length (metre) of HTLS (487A)	Length (metre) of ACSR Panther (487A)	Number of Long Rod Polymer Insulator	Remark
14	AP38	25°37'34.78"N 94° 6'39.42"E	AP38 - AP37	224	224		6	Phesama Village
15	AP37	25°37'33.77"N 94° 6'46.09"E	AP37 - AP36	142	142		6	Phesama Village
16	AP36	25°37'32.23"N 94° 6'50.02"E	AP36 - AP35	815	815		6	Phesama Village
17	AP35	25°37'10.85"N 94° 6'57.87"E	AP35 - AP34	321	321		6	Phesama Village
18	AP34	25°37'2.43"N 94° 7'1.04"E	AP34 - AP33	236	236		6	Phesama Village
19	AP33	25°36'55.88"N 94° 7'1.35"E	AP33 - AP32	676	676		6	Phesama Village
20	AP32	25°36'37.27"N 94° 7'0.29"E	AP32 - AP31	303	303		6	Phesama Village
21	AP31	25°36'28.88"N 94° 7'0.15"E	AP31 - AP30	437	437		6	Phesama Village
22	AP30	25°36'17.23"N 94° 6'56.90"E	AP30 - AP29	660	660		6	Phesama Village
23	AP29	25°35'59.18"N 94° 6'58.48"E	AP29 - AP28	415		415	6	
24	AP28	25°35'47.75"N 94° 6'58.77"E	AP28 - AP27	339		339	6	
25	AP27	25°35'39.18"N 94° 7'2.92"E	AP27 - AP26	386		386	6	
26	AP26	25°35'29.27"N 94° 7'6.95"E	AP26 - AP25	232		232	6	

Annexure-V (Page 2 of 2)

STRENGTHENING OF 132kV KOHIMA - KARONG WITH HTLS/ACSR PANTHER CONDUCTOR

SL	Tower Number	Tower Coordinate	Span Between Tower (metre)		Length (metre) of HTLS (487A)	Length (metre) of ACSR Panther (487A)	Number of Long Rod Polymer Insulator	Remark
27	AP25	25°35'24.21"N 94° 7'11.23"E	AP25 - AP24	1155	1155		6	Jakhama Village
28	AP24	25°34'57.16"N 94° 7'29.81"E	AP24 - AP23	210	210		6	Jakhama Village
29	AP23	25°34'51.94"N 94° 7'32.62"E	AP23 - AP22	276	276		6	Jakhama Village
30	AP22	25°34'44.92"N 94° 7'35.77"E	AP22 - AP21	195	195		6	Jakhama Village
31	AP21	25°34'39.59"N 94° 7'36.60"E	AP21 - AP20	972		972	6	
32	AP20	25°34'15.38"N 94° 7'49.11"E	AP20 - AP19	647	647		6	Viswema Village
33	AP19	25°34'6.55"N 94° 8'6.29"E	AP19 - AP18	526	526		6	Viswema Village
34	AP18	25°33'56.83"N 94° 8'18.17"E	AP18 - AP17	445	445		6	Viswema Village
35	AP17	25°33'46.11"N 94° 8'24.69"E	AP17 - AP16	171		171	6	
36	AP16	25°33'41.72"N 94° 8'26.57"E	AP16 - AP15	224		224	6	
37	AP15	25°33'35.95"N 94° 8'29.00"E	AP15 - AP14	213	213		6	Viswema Village
38	AP14	25°33'30.23"N 94° 8'27.27"E	AP14 - AP13	90	90		6	Viswema Village
39	AP13	25°33'28.05"N 94° 8'26.13"E	AP13 - AP12	605	605		6	Viswema Village

STRENGTHENING OF 132kV KOHIMA - KARONG WITH HTLS/ACSR PANTHER CONDUCTOR

SL	Tower Number	Tower Coordinate	Span Between Tower (metre)		Length (metre) of HTLS (487A)	Length (metre) of ACSR Panther (487A)	Number of Long Rod Polymer Insulator	Remark
40	AP12	25°33'14.01"N 94° 8'16.08"E	AP12 - AP11	310	310		6	Viswema Village
41	AP11	25°33'5.46"N 94° 8'15.76"E	AP11 - AP10	309	309		6	Viswema Village
42	AP10	25°32'57.46"N 94° 8'12.57"E	AP10 - AP09	845		845	6	
43	AP09	25°32'34.24"N 94° 8'9.49"E	AP09 - AP08	419	419		6	Khuzama Village
44	AP08	25°32'22.95"N 94° 8'6.81"E	AP08 - AP07	208	208		6	Khuzama Village
45	AP07	25°32'17.27"N 94° 8'6.11"E	AP07 - AP06	270	270		6	Khuzama Village
46	AP06	25°32'10.69"N 94° 8'2.14"E	AP06 - AP05	261	261		6	Khuzama Village
47	AP05	25°32'4.39"N 94° 7'58.42"	AP05 - AP04	737	737		6	Khuzama Village
48	AP04	25°31'44.38"N 94° 8'2.30"E	AP04 - AP03	164	164		6	Khuzama Village
49	AP03	25°31'40.06"N 94° 8'3.67"E	AP03 - AP02	540	540		6	Khuzama Village
50	AP02	25°31'25.23"N 94° 8'5.17"E	AP02 - Mao	1180	1180		6	Khuzama Village
51	AP01 (Mao Gate)	25°30'53.21"N 94° 8'0.38"E					6	
Total length / number				**20893**	**16588**	**4305**	**306**	

ANNEXURE P-4

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II
Power System Planning & Appraisal Division-II

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की इक्कीसवी बैठक के कार्यवृत्त – के सम्बन्ध में ।

Subject: Minutes of the 21st Meeting of National Committee on Transmission (NCT) – regarding.

महोदया (Madam) / महोदय (Sir),

The 21st meeting of the "National Committee on Transmission" (NCT) was held on 6th August, 2024, at CEA, New Delhi. Minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,

Signed by Bhagwan Sahay Bairwa
Date: 21-08-2024 10:17:05

(बी.एस.बैरवा/ B.S. Bairwa)
मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव,एन.सी.टी./
Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / **Copy to:**

Joint Secretary (Trans), Ministry of Power, New Delhi-110001

List of Addresses:

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex, Gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

Table of Agenda

1 Confirmation of the minutes of the 20th meeting of National Committee on Transmission. 1

2 Status of the transmission schemes noted/approved/recommended to MoP in the 20th meeting of NCT: 1

3 Modifications in the earlier approved/notified transmission schemes: 3

4 New Transmission Schemes: 5

5 Any other issues, with permission of chair 23

Summary of the deliberations of the 21st meeting of NCT held on 6th August, 2024 25

Minutes of the 21st meeting of National Committee on Transmission (NCT)

The 21st meeting of NCT was held on 6th August, 2024 at CEA, New Delhi. List of participants is enclosed at **Annexure-I**. Agenda wise deliberations are given below:

1 Confirmation of the minutes of the 20th meeting of National Committee on Transmission.

1.1 The minutes of the 20th meeting of NCT held on 25.06.2024 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 13.07.2024. No comments were received on the minutes.

1.2 Members confirmed the minutes.

2 Status of the transmission schemes noted/approved/recommended to MoP in the 20th meeting of NCT:

2.1 Status of new transmission schemes approved/recommended:

Sl. No.	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette Notification
1.	Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)	Recommended	TBCB	RECPDCL	Under process in MoP
2.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS	Recommended	TBCB	PFCCL	Under process in MoP
3.	Transmission System for Offshore Wind Zone Phase-1 (500 MW VGF off the coast of Gujarat for Subzone B3)	Recommended	RTM	Not applicable	Under process in MoP
4.	Transmission System for Offshore wind farm in Tamil Nadu (500 MW VGF)	Recommended	RTM	Not applicable	Under process in MoP
5.	Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh	Recommended	TBCB	PFCCL	Under process in MoP
6.	Transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B	Recommended	TBCB	RECPDCL	Under process in MoP
7.	Transmission System for evacuation of RE power from Raghanesda area of Gujarat – 3 GW under Phase-I	Recommended	TBCB	PFCCL	Under process in MoP

Sl. No.	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette Notification
8.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A	Recommended	TBCB	RECPDCL	Under process in MoP
9.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW) Part B	Approved	RTM	Not applicable	Informed to CTUIL vide letter dated 13.07.2024
10.	Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects	Recommended	TBCB	PFCCL	Under process in MoP
11.	**A:** Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant Communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) and Parbati-III (NHPC) stations. **B:** Supply and installation of 24 Fibre OPGW and FOTE to Providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) and Parbati-III (NHPC) stations.	Approved	RTM	Not applicable	Informed to CTUIL vide letter dated 13.07.2024 CTUIL forwarded the recommendations vide letter dated 15.07.2024
12.	Redundant Communication for Chamera-III (NHPC) and Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network	Approved	RTM	Not applicable	
13.	Additional FOTE requirements at AGC locations in Western Region	Approved	RTM	Not applicable	
14.	Redundant OPGW communication path for Solapur STPP under AGC	Approved	RTM	Not applicable	
15.	Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh.	Approved	RTM	Not applicable	

2.2 Status of transmission schemes where modifications was suggested by NCT:

S. No.	Scheme where modifications was suggested	Status
1.	Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)- PART B	Informed PFCCL vide letter dated 13.07.2024
2.	Modification in design / layout of Kurnool-III PS due to receipt of large quantum of Connectivity applications at 400 kV level	Informed to CTUIL vide letter dated 13.07.2024
3.	Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)	Informed to RECPDCL vide letter dated 13.07.2024
4.	System strengthening at Koppal-II and Gadag-II for integration of RE generation	Informed to PFCCL vide letter dated 13.07.2024
5.	Transmission system for evacuation of power from Luhri Stage-I HEP	Informed to RECPDCL vide letter dated 13.07.2024
6.	Augmentation with 400/220 kV, 1x500 MVA Transformer (10th) at Fatehgarh-2 PS	Informed to CTUIL vide letter dated 13.07.2024

3 Modifications in the earlier approved/notified transmission schemes:

3.1 Modification of implementation schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd. under the scheme "Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects"

3.1.1 The transmission scheme "Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects" was recommended for implementation through TBCB route in the 20th meeting of NCT held on 25.06.2024.

3.1.2 Representative of CTUIL mentioned that the scheme includes implementation of 4 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd. The start date of connectivity for one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd. was mentioned as 30.06.2025. However, "Transmission system strengthening at Kurnool-III PS will be required for integration of additional RE generation projects- Package-A" for evacuation of power.

3.1.3 Further, it was stated that time frame for Package-A has been considered as 24 months. Accordingly, the in-principle grant of connectivity for M/s Indosol Solar Pvt. Ltd. has been granted with start date as 31.12.2026 (tentative). In view of above, the schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd. may be modified as 24 months instead of 30.06.2025

3.1.4 After deliberations, NCT approved the change in schedule of one of the 400 kV bays of M/s Indosol Solar Pvt. Ltd of the transmission scheme "Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects" as follows:

Package	Scope of the Transmission Scheme	Capacity /km	Schedule	Revised Schedule
A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	• 3x1500 MVA, 765/400 kV ICT • 765 kV ICT bay – 3 Nos. • 400 kV ICT bay – 3 Nos. • 400 kV Bus Sectionaliser – 1 Set	24 months	No change
	Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVAr switchable line reactors at both ends	~ 260 km • 765 kV line bays – 2 Nos. (at Kurnool-III PS) • 765 kV line bays – 2 Nos. (at Chilakaluripeta) • 765 kV, 240 MVAr SLR at Kurnool-III PS – 2 Nos. (6x80 MVAr units) • 765 kV, 240 MVAr SLR at Chilakaluripeta – 2 Nos. (6x80 MVAr units)		
B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.	• 400 kV line bays – 2 Nos.	30.06.26	No change
	4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	• 400 kV line bays – 1 Nos.	30.06.25	**24 Months**
		• 400 kV line bays – 1 Nos.	24 months	No change
		• 400 kV line bays – 2 Nos.	31.03.27	No change
	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	• 400 kV line bays – 2 Nos.	31.12.27	No change
C	Augmentation of 1x1500 MVA 765/400 kV ICT (7th) at Kurnool-II PS	• 1x1500 MVA, 765/400 kV ICT • 765 kV ICT bay – 1 Nos. • 400 kV ICT bay – 1 Nos.	24 months	No change

3.2 Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

3.2.1 In the 16th meeting of NCT held on 30.11.2023, the Eastern Region Expansion Scheme-XXXIX was recommended to be implemented through TBCB mode with tentative implementation timeframe of 30-06-2026. This scheme inter alia includes establishment of 765/400 kV ISTS substation at Gopalpur alongwith Angul

(POWERGRID) – Gopalpur 765 kV D/c line and Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c line in Odisha. Bidding of the scheme is under progress.

3.2.2 In the 20th meeting of NCT held on 25.06.2024, change in implementation time-frame of ERES-XXXIX from 30-06-2026 to 31-12-2026 was approved. Further, CTUIL was directed to reconfirm commissioning schedule of Gopalpur S/s (OPTCL) from Odisha.

3.2.3 Representative of CTUIL stated that OPTCL vide letter dated 01.08.2024 had informed them that completion schedule of 400 kV OPTCL substation at Gopalpur is Dec'2027.

3.2.4 After deliberations, NCT approved the change in schedule of implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 31.12.2026 to 31.12.2027

3.3 Modification in the scope of works of the transmission scheme "Transmission Scheme for integration of Davanagere / Chitradurga REZ.

3.3.1 Representative of CTUIL stated that "Transmission Scheme for integration of Davanagere / Chitradurga REZ" was agreed in 18th meeting of NCT at an estimated cost of ₹ 2640 Cr. The scheme inter-alia includes the LILO of Narendra New – Madhugiri 765 kV D/c line at Davanagere / Chitradurga S/s. Under present scope, 765 kV, 2x240 MVAr (765 kV) Line reactors at Narendra New are proposed for Narendra New – Davanagere / Chitradurga 765 kV D/C line. Existing 765 kV Bus Reactors and Line Reactors at Narendra New are of single phase 110 MVAr rating, therefore, the existing spare 1-phase Shunt Reactor unit cannot be utilized for the switchable line reactor banks (240 MVAr).

3.3.2 CTUIL proposed to amend the scope of works incorporating a spare 80 MVAr, 765 kV reactor at Narendra New in the transmission scheme.

3.3.3 The revised cost of the said transmission scheme incorporating a spare 80 MVAr, 765 kV reactor is ₹ 2651.5 Cr and the percentage increase in the estimated cost is 0.44%.

3.3.4 After deliberations, NCT approved the modification in the scope of the "Transmission Scheme for integration of Davanagere / Chitradurga REZ" by addition of a spare 80 MVAr 765 kV reactor at Narendra New.

4 <u>New Transmission Schemes</u>:

4.1 Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 3 GW)

4.1.1 Representative of CTUIL stated that MNRE has forwarded the Green Hydrogen/Ammonia manufacturing locations along with the associated electricity demand by 2030. It was informed that Green Hydrogen/Ammonia manufacturing is planned in the coastal states of Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, West Bengal and Odisha.

4.1.2 MNRE representative informed that earlier M/s NTPC and M/s Renew Power had plans to establish Green hydrogen/ammonia manufacturing facility in Kandla, however, as

per latest information they will not be setting up the Green hydrogen/ammonia manufacturing facility at Kandla, while M/s Ocior Energy is planning to set up the facility during 2027-28. Therefore, total electricity demand of Green Hydrogen and Green Ammonia plants/industries will be around 2,190 MW in 2027-28 at Kandla. Accordingly, the modified year wise electricity demand on account of Green Hydrogen and Green Ammonia production at Kandla is given below:

Location	Developer	Electricity Demand 2026-27 (MW)	Additional Electricity Demand in 2027-28 (MW)	Additional Electricity Demand in 2028-29 (MW)	Additional Electricity Demand in 2029-30 (MW)
Kandla	Greenko	0	1500	0	0
	Renew Power	0	0	0	0
	Welspun New Energy	500	0	0	4500
	Ocior Energy	0	190	0	1500
	NTPC	0	0	0	0
	Total	**500**	**1690**	**0**	**6000**

4.1.3 Representative of CTUIL stated that they have planned transmission System for Green Hydrogen / Green Ammonia production in Kandla area by establishing a 765/400 kV sub-station at Kandla and Halvad – Kandla 765 kV D/c line. Estimated cost of the scheme is ₹ 2,775 Cr with implementation timeframe of 24 months. However, implementation time frame needs to be deliberated considering that MNRE has given requirement in 2027-28 timeframe.

4.1.4 Regarding implementation timeframe, it was deliberated that considering requirement in 2027-28 time frame, implementation schedule of 36 months may be considered. CMD, Grid-India enquired whether the green hydrogen developers will apply for GNA. CTUIL confirmed that the developers will apply for GNA, however, no applications have been received so far and the transmission system is being developed considering the potential as informed by MNRE.

4.1.5 WRPC in its 49th meeting held on 03.05.2024 had recommended the proposal for implementation.

4.1.6 After deliberations, NCT recommended Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 3 GW) as mentioned below:

4.1.6.1 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 3 GW) Tentative implementation timeframe: 36 Months	₹ 2775 Cr	Recommended under TBCB route with PFCCL as BPC

4.1.6.2 Detailed scope of the scheme is given below:

S. No.	Scope of the Transmission Scheme	Capacity/line length km
1.	Establishment of 3x1500 MVA, 765/400 kV Kandla (GIS) with 2x330 MVAR 765 kV bus reactor and 2x125 MVAR 420 kV bus reactor. **Future Provisions**: Space for • 765/400 kV ICT along with bays-3 Nos. (on Sec-II) • 765 kV line bays along with switchable line reactors – 2 Nos. (on Sec-I) & 4 Nos. (on Sec-II) • 765 kV Bus Reactor along with bay: 2 Nos. (on Sec-II) • 765 kV Sectionaliser: 1 -set • 400 kV line bays along with switchable line reactors– 12 Nos. (6 on Sec-I & 6 on Sec-II) • 400/220 kV ICT along with bays-6 Nos. (3 Nos. each on Sec-I & Sec-II) • 400 kV Bus Reactor along with bays: 2 Nos. (Sec-II) • 400 kV Sectionalization bay: 1-set • 220 kV line bays: 12 Nos. (6 nos. each on Sec-I & Sec-II) • 220 kV Sectionalization bay: 1set • 220 kV BC: 2 Nos. • 2 Nos. STATCOM (±400 MVAR) along with 2x125 MVAr MSC & 1x125 MVAr MSR and associated bays-2Nos. (1 on 400kV Sec-I and 1 on 400 kV Sec-II)	765/400 kV, 1500 MVA ICT-3 Nos. 765 kV ICT bays- 3 Nos. 400 kV ICT bays- 3 Nos. 330 MVAR 765 kV bus reactor-2 Nos. 125 MVAR 420 kV bus reactor-2 Nos. 765 kV reactor bay- 2 Nos. 765 kV line bay- 2 Nos. 400 kV reactor bay- 2 Nos. 500 MVA, 765/400 kV 1-Ph Spare ICT-1 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1
2.	Halvad – Kandla(GIS) 765 kV D/c line	140 km (approx.)
3.	2 Nos. of 765 kV line bays at Halvad for termination of Halvad – Kandla 765 kV D/c line	765 kV line bays– 2 Nos. (for Halvad end)
4.	240 MVAr switchable line reactors on each ckt at Kandla (GIS) end of Halvad – Kandla 765 kV D/c line (with NGR bypass arrangement)	• 240 MVAr, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765 kV line reactor- 2 Nos. • 80 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 Nos.
5.	± 400 MVAr STATCOM along with 2x125 MVAr MSC & 1x125 MVAr MSR at Kandla(GIS) 400 kV Bus section-I	• ±400 MVAr STATCOM along with 2x125 MVAr MSC & 1x125 MVAr MSR • 400 kV bay – 1 Nos.
	Note: *As per initial discussions with Deen Dayal Port Authority w.r.t. land allocation done to various Green Hydrogen/Ammonia developers in Kandla area, Kandla S/s is proposed to be located near Bhimasar area and line length of Kandla-Halvad line has been considered accordingly. However, exact location of the substation would be finalized by*	

S. No.	Scope of the Transmission Scheme	Capacity/line length km
	the BPC/Survey Agency in consultation with Deen Dayal Port Authority and other stakeholders *Further, TSP of Halvad S/s shall provide space for scope at Sl. No. 3 above.*	

4.2 Transmission System for supply of power to Green Hydrogen/Green Ammonia manufacturing potential in Mundra area of Gujarat under Phase-I

4.2.1 Representative of CTUIL stated that MNRE has forwarded the Green Hydrogen/Ammonia manufacturing locations along with the associated electricity demand by 2030. Green Hydrogen/Ammonia manufacturing is planned in the coastal states of Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, West Bengal and Odisha.

4.2.2 MNRE representative informed that the modified year wise electricity demand on account of Green Hydrogen and Green Ammonia production in Mundra area by 2029-30 is as follows

Location	Developer	Electricity Demand 2026-27 (MW)	Additional Electricity Demand in 2027-28 (MW)	Additional Electricity Demand in 2028-29 (MW)	Additional Electricity Demand in 2029-30 (MW)
Mundra	Adani New Industries Ltd	2000	6000	8000	6000

4.2.3 Representative of CTUIL further stated that transmission system for supply of power for Green Hydrogen/Green Ammonia production in Mundra has been planned in Phases. In first Phase, it is proposed to take up for approval the transmission System for Green Hydrogen / Green Ammonia production expected by 2027-28. Tentative System for Green Hydrogen / Green Ammonia production expected by 2028-29 has also been planned, which shall be reviewed later based on visibility of Green Hydrogen / Green Ammonia production in the above areas.

4.2.4 In view of the above, this scheme was proposed under two parts:

A. Transmission system for supply of power to Green Hydrogen/Ammonia manufacturing potential in in Mundra area of Gujarat under Phase-I: Part B1 scheme (6 GW at Navinal S/s) mainly consists of augmentation of transformation capacity at Navinal 765/400 kV sub-station (GIS), Navinal (Mundra) (GIS) – Bhuj 765 kV D/c line of 70 km and Navinal (Mundra) (GIS) – Bhuj-II 765 kV D/c line of 80 km.

B. Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Mundra area of Gujarat under Phase-I: Part B2 scheme (3.5 GW at Navinal-II S/s). It consists of establishment of 765/400 kV Navinal-II (Mundra) S/s (GIS), LILO of KPS3 (GIS) – Lakadia 765 kV D/c line of 70 km at Navinal-II (Mundra) (GIS) S/s

4.2.5 CMD, Grid-India stated that feeding load of more than 10 GW from a single substation (Navinal) may be reviewed from resiliency point of view. The complete outage of the station during natural disasters (cyclones etc.) would lead to a large disturbance. Therefore, in place of feeding large quantum of load from a single station (with bus sections), separate pooling stations may be planned to enhance the resiliency.

4.2.6 Director (SO), Grid-India stated that the line length of 02 Nos. 765 kV D/C lines from Bhuj-II to Navinal i.e. one direct D/C from Bhuj-II and one after LILO of 765 kV Bhuj-II – Lakadia D/C at Navinal is different (80 kms and 120 kms). This difference in line length and hence difference in impedance would result in uneven loading in these lines and the shorter line would reach the permissible loading limit before the other line, leading to suboptimal utilization of the corridor.

4.2.7 He also stated that voltage stability related issues at Navinal station may be studied in detail considering both - the potential reactive power drawl by electrolyzer load and large load throw off scenarios. He further stated that the requirement of providing static reactive power compensation in the form of MSCs and MSRs along with dynamic compensation (VSC) may be reviewed as large variation in voltage may lead to frequent operation of these static devices.

4.2.8 CMD, Grid-India suggested that planning 400 kV lines from RE stations in Khavda complex to load centers like Navinal and Kandla may help in avoiding step up/down 765/400 kV ICTs at Khavda and Navinal/Kandla respectively.

4.2.9 After deliberations, it was decided that the scheme may again be examined jointly by CEA, CTUIL and Grid India. Thereafter, the scheme may be brought in next NCT meeting for decision.

4.3 Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS)

4.3.1 Representative of CTUIL stated that Banaskantha (Raghanesda) PS (GIS) is an existing substation of POWERGRID with 2x500 MVA, 400/220 kV ICTs and the same was planned to cater to 700 MW GPCL's Radhanesda Solar Park. Additional 250 MW from M/s Sprng Power Earth Pvt Ltd. was also accommodated in the existing Banaskantha (Raghanesda) PS (GIS) S/s.

4.3.2 To cater to applications received beyond 950 MW at Banaskantha (Raghanesda) PS (GIS) [Applications received for additional 300 MW] and to meet N-1 reliability criteria, installation of additional 2x500 MVA, 400/220 kV ICTs (3rd & 4th) is required. The Radhanesda – Banaskantha 400 kV D/c line (Twin AL-59) (existing) is sufficient to evacuate this 1,250 MW evacuation requirement from Banaskantha (Raghanesda) PS (GIS) S/s. The estimated cost of the scheme is ₹172 Cr with implementation timeframe of Dec'2026.

4.3.3 After deliberations, NCT approved the scheme "Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS)".

4.3.3.1 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crore)	Remarks
1.	Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS) Implementation timeframe: 24 Months	₹ 172 Cr	Approved under TBCB route with RECPDCL as BPC

4.3.3.2 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS) by 2x500 MVA, 400/220 kV ICTs (3rd & 4th)	500 MVA, 400/220 kV ICTs: 2 Nos. 400 kV ICT bays: 2 Nos. (+ 2 Nos. for dia completion with provision of Switchable LR) 220 kV ICT bays: 2 Nos.

4.4 Augmentation of transformation capacity at KPS1 (GIS) Part-B1 and KPS2 (GIS) Part-B2 (Phase-V) scheme

4.4.1 Representative of CTUIL stated that

a) KPS1 S/s with 3x1500 MVA ICTs on Section-I is already commissioned by M/s Adani. 1x1500 MVA addl. ICT at Section-I is also being implemented by M/s Adani (under RTM) under Khavda Ph-IV Part-E1 scheme. Further, Section-II of KPS1 is being established by M/s Megha Engineering & Infrastructures Limited with SCOD of Jan-25 with 4x1500 MVA ICTs.

To cater to the applications received for 810 MW at KPS1 (Section-II) from M/s Adani Green Energy Ltd., ICT Augmentation is required at KPS1 (Section-II) in order to maintain N-1 compliance. The subject ICT would facilitate immediate injection of power at KPS1 (Section-II). However, onwards evacuation would be based on available margins only.

b) KPS2 S/s with 4x1500 MVA ICTs (2x1500 MVA on Section-I & 2x1500 MVA on Section-II) is under implementation by M/s POWERGRID. 4x1500 MVA (2x1500 MVA on Section-I & 2x1500 MVA on Section-II) addl. ICTs are also being implemented by POWERGRID (under TBCB) under Khavda Ph-IV Part-E2 scheme.

To cater to the applications received for 659 MW, ICT Augmentation at KPS2 (Section-I) is required in order to maintain N-1 compliance.

4.4.2 It was further mentioned that in the meeting held under Chairmanship of Joint Secretary, MNRE on 21.05.2024, GIPCL had informed that their generation is expected to be ready in 2025-26 time-frame (for 500 MW, PPA has been signed with GUVNL with SCOD of Apr'25 and for 1200 MW, tendering is complete and adoption of tariff is awaited from GERC). Hence, the subject ICT on Section-I would facilitate immediate injection of power at KPS2. However, evacuation would be based on available margins only.

4.4.3 Director (SO), Grid-India stated that pooling of ~10 GW of RE power at a single station may be reviewed from resiliency point of view. The complete outage of any of these large RE pooling stations during natural disasters (cyclones) may severely impact the RE generation evacuation. Therefore, in place of pooling large quantum RE generation at a single station (with bus sections), separate pooling stations may be planned to enhance the resiliency.

4.4.4 On the issue of elements of multiple transmission licenses in a single switchyard under TBCB regime, CMD, Grid-India emphasized on the requirement of a comprehensive connection agreement between such transmission licensees. The connection agreement shall cover the responsibilities of each licensee during the construction and subsequent operations and maintenance phase for better coordination and reliable operation.

4.4.5 After deliberations, NCT approved the scheme of augmentation of transformation capacity at KPS1 (GIS) (Phase-V Part B1 scheme) and KPS2 (GIS) (Phase-V Part B2 scheme) under TBCB with implementation time frame of 24 months and estimated cost of ₹466 Cr.

4.4.5.1 Summary of the scheme is given below:

SI No.	**Name of the scheme and tentative implementation timeframe**	**Estimated Cost (₹Cr)**	**Remarks**
1.	Augmentation of transformation capacity at KPS1 (GIS) and KPS2 (GIS) (Phase-V Part B1 and Part B2 scheme) Tentative implementation timeframe**:** 24 months from date of allocation to implementing agency	₹ 466 Cr	Approved Under TBCB route with RECPDCL as BPC

4.4.5.2 Detailed scope of the scheme is given below:

S. No.	**Scope of the Transmission Scheme**	**Capacity /km**
1.	Augmentation of transformation capacity at KPS1(GIS) by 1x1500 MVA, 765/400 kV ICT on Bus section-II (9th)	• 1500 MVA, 765/400 kV ICT – 1 Nos. • 765kV ICT bay – 1 Nos. on Bus section-II* • 400 kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-II

S. No.	Scope of the Transmission Scheme	Capacity /km
2.	Augmentation of transformation capacity at KPS2(GIS) by 1x1500 MVA, 765/400 kV ICT on Bus section-I (9th)	• 1500 MVA, 765/400 kV ICT – 1 Nos. • 765 kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-I • 400 kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-I

** As per TSP (Adani) mail dated 14.06.2024, Half dia has been considered for 765kV ICT bay due to space constraint.*

4.5 Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex

4.5.1 Representative of CTUIL stated that large no. of applications from new RE generators have been received for connectivity at Sirohi and Nagaur/Merta complexes. Therefore, a transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1 :4 GW) [Sirohi/Nagaur] Complex, is evolved. It was discussed that Merta S/s is under bidding as part of "Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B" scheme which was recommended to be implemented through TBCB route with RECPDCL as BPC in 19th NCT meeting held on 29.04.2024. MoP vide Gazette ID no. CG-DL-E-14062024-254705 dated 14.06.24 notified the above transmission scheme. It was decided that transmission system for immediate evacuation of power from Merta-II PS as part of transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1 :4 GW) [Sirohi/Nagaur] Complex [approx Rs 197 Cr] shall be included in the scope of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B. Therefore, following scope may be incorporated in the mentioned scheme i.e. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B

- 3x500 MVA, 400/220 kV ICTs at Merta-II S/s along with associated transformer bays
- 4 Nos. 220 kV line bays at Merta-II S/s for RE interconnection
- 220 kV Sectionalizer bay (1 set) along with 220 kV BC (1 No.) bay and 220 kV TBC (1 No.) bay at Merta-II S/s

4.5.2 The revised scope of above scheme (Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B) will be as mentioned below:

S.No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
1	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVAr (765 kV) & 2x125 MVAr (420 kV) bus reactor at Merta-II S/s **Merta-II S/s -AIS**	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVAr (765 kV) & 2x125 MVAr (420 kV) bus reactor at Merta-II S/s **Merta-II S/s –AIS**

	• 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 400/220 kV 500 MVA ICTs -2 Nos. • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- 4 Nos. • 220 kV ICT bays- 2 Nos. • 765kV line bays: 4 Nos. (for 765kV interconnection with Dausa S/s & Barmer-I PS) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s) • 240 MVAr Bus Reactor-2 Nos. (7x80 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAr Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. • 220 kV line bays: 3 Nos. (for RE connectivity) • 220 kV BC (1 No.) bay and 220 kV TBC (1 Nos.) bay • 110 MVAr spare reactor unit (single phase)-1 Nos. **Future provisions at Merta-II S/s:** **Space for** • 765/400 kV ICTs along with bays- 4 Nos. • 765 kV line bays along with switchable line reactors – 8 Nos. • 765 kV Bus Reactor along with bay: 1 Nos. • 400 kV line bays along with switchable line reactor –8 Nos. • 400 kV line bays – 2 Nos. • 400 kV Bus Reactor along with bays: 1 Nos. • 400 kV Sectionalizer bay: 2 sets • 400/220 kV ICTs along with bays -4 Nos. • 220 kV line bays for RE injection -5 Nos. • 220 kV Sectionalizer bay: 2 set • 220 kV BC (2 Nos.) bays and 220 kV TBC (2 Nos.) bays • STATCOM (2x±300 MVAr, 4x125 MVAr MSC, 2x125 MVAr MSR) along with 400 kV bays (2 Nos.)	• 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 400/220 kV 500 MVA ICTs **-5 Nos**. • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- **7 Nos.** • 220 kV ICT bays- **5 Nos.** • 765 kV line bays: 4 Nos. (for 765 kV interconnection with Dausa S/s & Barmer-I PS) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s) • 240 MVAr Bus Reactor-2 Nos. (7x80 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAr Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. • 220 kV line bays: **7 Nos. (for RE connectivity)** • 220 kV BC **(2 No.)** bay and 220 kV TBC **(2 Nos**.) bay • 110 MVAr spare reactor unit (single phase)-1 Nos. • **220 kV sectionalizer bay (1 set)** **Future provisions at Merta-II S/s:** **Space for** • 765/400 kV ICTs along with bays- 4 Nos. • 765 kV line bays along with switchable line reactors – 8 Nos. • 765 kV Bus Reactor along with bay: 1 Nos. • 400 kV line bays along with switchable line reactor –8 Nos. • 400 kV line bays – 2 Nos. • 400 kV Bus Reactor along with bays: 1 Nos. • 400 kV Sectionalizer bay: 2 sets • 400/220 kV ICTs along with bays **-1 No.** • 220 kV line bays for RE injection **-1 No.** • 220 kV Sectionalizer bay**: 1 set** • 220 kV BC (**1 No**.) bays and 220 kV TBC (**1 No**.) bays • STATCOM (2x±300 MVAr, 4x125 MVAr MSC, 2x125 MVAr MSR) along with 400 kV bays (2 Nos.)

2	Barmer-I PS – Merta-II 765 kV D/c line along with 330 MVAr switchable line reactor for each circuit at each end of Barmer-I PS – Merta-II 765 kV D/c line	**No Change**
3	Merta-II – Beawar 400 kV D/c line (Quad)	
4	Merta-II – Dausa 765 kV D/c line along with 240 MVAr switchable line reactor for each circuit at each end of Merta-II – Dausa 765 kV D/c line line	
5	2 Nos. 765 kV line bays each at Barmer-I PS & Dausa S/s	
6.	2 Nos. 400 kV line bays at Beawar S/s	

4.5.3 Further, for Sirohi and Nagaur complexes, scheme for Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex was recommended by NCT under TBCB with above mentioned changes in the scheme.

4.5.3.1 Summary of the scheme is given below:

SI No.	**Name of the scheme and tentative implementation timeframe**	**Estimated Cost (₹ Crore)**	**Remarks**
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex Implementation timeframe: 24 months from allocation of project	₹5027.61 Cr (NR Portion : ₹2897.4.4 Cr WR Portion : ₹2130.21 Cr)	Recommended under TBCB route with RECPDCL as BPC

4.5.3.2 Detailed scope of the scheme is given below:

Sl. No.	**Description of Transmission Element**	**Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)**
1. Transmission system for immediate Evacuation of Power from Sirohi S/s (2 GW)		
1	5x500 MVA, 400/220 kV ICTs at Sirohi S/s along with transformer bays	• 400/220 kV 500 MVA ICTs- 5 Nos. • 400 kV ICT bays-5 Nos. • 220 kV ICT bays- 5 Nos.
2	6 Nos. 220 kV line bays at Sirohi S/s for RE interconnection	• 220 kV line bays – 6 Nos.

3	220 kV Sectionalizer bay (1 set) along with 220 kV BC (2 Nos.) bay and 220 kV TBC (2 Nos.) bay at Sirohi S/s	• 220 kV Sectionalizer bay (1 set) • 220 kV BC (2 Nos.) bay and 220 kV TBC (2 Nos.) bay
2.	**Transmission system for Common Evacuation of Power from Sirohi PS (2 GW) & Merta-II PS (2 GW)**	
4	Sirohi – Mandsaur PS 765 kV D/c line along with 240 MVAr switchable line reactor at Sirohi end and 330 MVAr switchable line reactor at Mandsaur PS end for each circuit of Sirohi – Mandsaur PS 765KV D/c line	Line Length -320 km (approx.) • 765 kV line bays at Sirohi S/s – 2 Nos. • 765 kV line bays at Mandsaur PS – 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Sirohi S/s end– 2 Nos. • 765 kV, 330 MVAr switchable line reactors at Mandsaur PS end– 2 Nos. • Switching equipment for 765kV, 240 MVAr switchable line reactors at Sirohi S/s end – 2 Nos. • Switching equipment for 765kV, 330 MVAr switchable line reactors at Mandsaur PS end – 2 Nos.
5	Mandsaur PS – Khandwa (New) 765 kV D/c line along with 240 MVAr switchable line reactor for each circuit at each end of Mandsaur PS – Khandwa (New) 765kV D/c line	Line Length ~260 km (Approx) • 765 kV line bays at Mandsaur PS – 2 Nos. • 765 kV line bays at Khandwa (New) – 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Mandsaur PS end– 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Khandwa (New) end– 2 Nos. • Switching equipment for 765kV, 240 MVAr switchable line reactors at Mandsaur PS end – 2 Nos. • Switching equipment for 765kV, 240 MVAr switchable line reactors at Khandwa (New) end – 2 Nos.

- *Developer of Sirohi S/s shall provide space for 2 Nos. of 765 kV line bays, 400/220 kV ICTs, 220 kV line bays. 220 kV Sectionalizer bay along with 220 kV BC bay and 220 kV TBC bay, switchable line reactors (along with switching equipment) at Sirohi S/s as per the scope*
- *Developer of Mandsaur PS shall provide space for 4 Nos. of 765 kV line bays, switchable line reactors (along with switching equipment) at Mandsaur PS*
- *M/s Sterlite shall provide space for 2 Nos. of 765 kV line bays switchable line reactor (along with switching equipment) at Khandwa S/s*
- *The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey*

4.6 Augmentation with 400/220 kV 3x500 MVA (6th to 8th) ICTs at Fatehgarh-IV PS (Section-II) & 400/220 kV 2x500 MVA (3rd & 4th) ICTs at Barmer-I PS

4.6.1 Representative of CTUIL stated that at present, total connectivity granted/agreed at Fatehgarh-IV PS (Section-II) is 4,980 MW. Out of this, 3480 MW is granted at 220 kV and 1500 MW is granted at 400 kV level. Establishment of Fatehgarh-IV PS (Section-II) and associated transmission system is currently under bidding as part of "Transmission System for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5

GW) (Jaisalmer/ Barmer Complex)" expected to be awarded in Aug'24 (with 24 months schedule).

4.6.2 Considering the connectivity of 3480 MW granted at 220 kV level of Fatehgarh-IV PS(Section-II), augmentation with 3x500 MVA ICTs are required matching with the scheme (Rajasthan REZ Ph-IV (Part2: 5.5 GW)) for evacuation of power as well as to meet N-1 compliance.

4.6.3 CTUIL representative further mentioned that, at present, total connectivity granted/agreed at Barmer-I PS is 3950 MW at 220 kV level. Out of this 3950 MW, about 1550 MW connectivity is granted/agreed with Transmission System for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/ Barmer Complex) scheme. Therefore, considering the connectivity of 1,550 MW granted at 220 kV level of Barmer-I PS with Ph-IV Part-2 scheme, augmentation by 2x500 MVA ICTs (3rd & 4th) is required matching with the scheme (Rajasthan REZ Ph-IV (Part2: 5.5 GW)) for reliable evacuation of power.

4.6.4 After deliberations, NCT approved the scheme of Augmentation with 400/220 kV 3x500 MVA (6th to 8th) ICTs at Fatehgarh-IV PS(Section-II) & 400/220 kV 2x500 MVA (3rd & 4th) ICTs at Barmer-I PS under TBCB route with estimated cost of Rs 279.65 Cr. along with the transmission scheme mentioned at Agenda 4.7 below.

4.7 Augmentation with 765/400 kV, 1x1500 MVA Transformer (7th) at Fatehgarh-II PS

4.7.1 Representative from CTUIL stated that scheme of Augmentation with 765/400 kV, 1x1500 MVA, Transformer (7th) at Fatehgarh-II PS was taken up for approval in 14th NCT held on 09.06.23 as part of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part G scheme at an estimated cost of ₹132 Cr. The scheme was agreed to be deferred and it was decided in the meeting that the scheme would be taken up for implementation in the matching timeframe of Fatehgarh-II PS- Bhadla-III PS 400 kV D/c line, once the transmission line is approved by the Great Indian Bustard (GIB) Committee constituted by the Hon'ble Supreme Court.

4.7.2 Representative from CTUIL further stated that at present, RE Connectivity of 5310 MW (4460 MW at 220 kV and 850 MW at 400 kV) under GNA is granted/agreed at Fatehgarh-II PS. Fatehgarh-II PS also gets feed from Fatehgarh-III PS (Section-1) (1980 MW) and Fatehgarh-I PS (2200 MW) at 400 kV level. As ratification of 400 kV Fatehgarh-II PS- Bhadla-III PS 400 kV D/c line is not provided by the erstwhile GIB Committee, 765/400 kV ICTs (6x1500 MVA) at Fatehgarh-II PS is becoming N-1 non-compliant considering above quantum of injection. Estimated cost of the scheme is 124.18 Cr.

4.7.3 After deliberations, NCT approved the transmission scheme of Augmentation with 765/400 kV, 1x1500 MVA, Transformer (7th) at Fatehgarh-II PS. It was decided in the meeting to combine the schemes mentioned at Agenda 4.6 above with this scheme.

4.7.3.1 Summary of the scheme (combined) is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost(in ₹Cr)	Remarks
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS(Section-II) and Barmer-I PS	₹ 403.83 Cr	Approved under TBCB route with PFCCL as BPC

4.7.3.2 Detailed scope of the scheme (combined) is given below:

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation with 765/400 kV, 1x1500 MVA Transformer (7th) at Fatehgarh-II PS along with associated transformer bays	• 1500 MVA, 765/400 kV ICT - 1 Nos. • 765 kV ICT bay – 1 Nos. • 400 kV ICT bay – 1 Nos.	21 Months from SPV transfer
2.	Augmentation with 400/220 kV, 3x500 MVA (6th ,7th & 8th) ICTs at Fatehgarh-IV PS(Section-II) along with associated transformer bays	• 500 MVA, 400/220 kV ICT - 3 nos. • 400 kV ICT bays – 3 Nos. • 220 kV ICT bay – 3 Nos.	Matching with Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme. Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme expected SPV transfer: Aug'24 with 24 months schedule
3.	Augmentation with 400/220 kV, 2x500 MVA (3rd & 4th) ICTs at Barmer-I PS along with associated transformer bays	• 500 MVA, 400/220 kV ICT - 2 Nos. • 400 kV ICT bays – 2 Nos. • 220 kV ICT bay – 2 Nos.	

4.8 Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station in Karnataka and Implementation of 1 nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing Connectivity to RE generation project

4.8.1 Representative of CTUIL stated that presently, Tumkur (Pavagada) PS is being operated with 6x500 MVA, 400/220 kV ICTs. Further, additional 2x500 MVA, 400/220 kV ICTs (7th & 8th) are under implementation and is expected by Aug'25. So far, Connectivity of 3350 MW has been granted at Tumkur (Pavagada) PS.

4.8.2 Representative of CTUIL further mentioned that, connectivity of 200 MW has been agreed to be granted to M/s TEQ Green Power XVIII Pvt. Ltd. at 220 kV level with requirement of 1 Nos. of 220 kV bay. The above applicant has requested for implementation of 220 kV bay at Tumkur (Pavagada) PS under ISTS with start date as 30.06.2026.

4.8.3 Further, CTUIL representative mentioned that, M/s KSPDCL has submitted application for enhancement of connectivity for 300 MW at Tumkur (Pavagada) PS (from under operation 2050 MW solar project to 2350 MW) as Renewable Power Park Developer.

4.8.4 It is to be mentioned that KSPDCL has facilitated acquisition of additional land to existing owner, therefore, land is available for expansion of the pooling station for optimal utilization of the transmission system and augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling stations.

4.8.5 CTUIL further informed that POWERGRID vide email dated 10.07.2024 has communicated that due to non-availability of spare 400 kV bay /space adjacent to 7th ICT bay, 8th ICT has been envisaged to be placed in other side of 400 kV diameter and ICT interconnection with 220 kV bay has been proposed using 220 kV EHV cable. Subsequent to acquisition of additional land for 9th & 10th ICTs, adjacent to 7th ICT at Tumkur (Pavagada) PS, the 8th ICT can also be accommodated. With this arrangement of 8th ICT, requirement of 245 kV EHV cable for interconnection with 220 kV bay can be avoided. It was also informed that 8th ICT is required for meeting N-1 contingency criteria and was approved in 17th NCT meeting held on 31.01.2024 alongwith 7th ICT. The 7th & 8th ICTs were allocated to POWERGRID vide CEA/CTUIL letter dated 16.02.2024. Accordingly, it was proposed that implementation schedule of 8th ICT may be modified and kept alongwith the timeframe of 9th & 10th ICTs at Tumkur (Pavagada).

4.8.6 After deliberations, NCT approved the modification in the implementation schedule of 8th ICT and the transmission scheme for "Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station in Karnataka and Implementation of 1 Nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing connectivity to RE generation project" under RTM mode.

4.8.6.1 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost(in ₹ Cr)	Remarks
1.	Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV PS in Karnataka and Implementation of 1 Nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing Connectivity to RE generation project Tentative implementation timeframe : 21 Months	₹ 118 Cr	Approved under RTM Mode through POWERGRID

4.8.6.2 Detailed scope of the scheme is given below:

Package	Scope of the Transmission Scheme	Capacity /km	Schedule
A	Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station	• 2x500 MVA, 400/220 kV ICTs • 400 kV ICT bay – 2 Nos. • 220 kV ICT bay – 2 Nos.	21 months

Package	Scope of the Transmission Scheme	Capacity /km	Schedule
	Additional land of about 100 m (width) x 540 m (length) on right side of the Tumkur (Pavagada) PS for expansion of Tumkur (Pavagada) PS with 2 Nos. of additional 500 MVA ICTs & 220 kV line bays	The total land of about 13 Acres 22 Guntas is required for the proposed expansion; land rate has been fixed by the Deputy Commissioner at ₹2.62 Cr. (₹ 19.35 L per acre) as communicated by KSPDCL vide letter dated 31.05.2024	
B	Implementation of 1 Nos. of 220 kV line bay at Tumkur(Pavagada) 400/220 kV PS for providing Connectivity to RE generation project	1 Nos. 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for termination of dedicated line of M/s TEQ Green Power XVIII Pvt. Ltd.	21 months
C	Modification in the implementation schedule of 8th ICT, approved in 17th NCT meeting held on 31.01.2024 alongwith 7th ICT at Tumkur (Pavagada) and allocated to POWERGRID vide CEA/CTUIL letter dated 16.02.2024. • The 8th ICT for N-1 contingency criteria may be implemented in the same timeframe of 9th & 10th ICTs at Tumkur (Pavagada).		21 Months

4.9 North-Eastern Region Expansion Scheme-XXV (NERES-XXV)

4.9.1 Representative of CTUIL stated that Bongaigaon S/s is gateway to NER grid as all synchronous interconnections to NER originate from this substation. In the 2nd meeting of NERPC-TP held on 25-09-2020, it was recorded that "NERLDC expressed that another 400 kV entry point of Bornagar in North Eastern states will be crucial and helpful in system operation as NER has only one AC entry point as Bongaigoan S/s which is flood affected area. This may lead to crucial situation in case of outage of Bongaigaon S/s."

4.9.2 CTU submitted that NERLDC mentioned that Bornagar 400 kV S/s is essential so as to create an alternative path for ER-NER interconnection. The substation is essential for reliable power supply in NER, as all existing ER-NER AC interconnections are only through Bongaigaon S/s and any mishap at the substation could jeopardise power supply situation in NER.

4.9.3 Considering the importance of additional feed to the NER grid through inter-regional lines, in case of contingencies/eventualities for reliable power supply in NER 400 kV Bornagar S/s (with provisions to establish 765 kV and 220 kV levels in future) was proposed to be set up with LILO of Bongaigaon – Balipara 400 kV D/c (Quad) line and establishment of Alipurduar – Bornagar 400 kV D/c (Quad) line by shifting of the existing Alipurduar – Bongaigaon 400 kV D/c (Quad) line from Bongaigoan S/s to Bornagar S/s.

4.9.4 It was observed that the scheme inter alia involves conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) S/s in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/c line [formed after LILO of

both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS)] to Switchable Line Reactor along with implementation of NGR bypass arrangement. This work is of the nature of technical upgradation and keeping in view coordination issues during implementation, the subject work could be taken up through RTM mode.

4.9.5 After deliberations, NCT recommended that the subject scheme may be bifurcated into two schemes viz. North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A) and North-Eastern Region Expansion Scheme-XXV Part-B (NERES-XXV Part-B), to be taken up under TBCB mode and RTM mode respectively.

4.9.5.1 Summary of the scheme is given below:

SI No.	**Name of the scheme and tentative implementation timeframe**	**Estimated Cost(in₹Cr)**	**Remarks**
1.	North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A) Tentative implementation timeframe: 36 Months	₹ 825.06 Cr	Recommended under TBCB mode with PFCCL as BPC
2.	North-Eastern Region Expansion Scheme-XXV Part-B (NERES-XXV Part-B) Tentative implementation timeframe: 36 Months [matching with North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)]	₹ 8.18 Cr	Approved under RTM mode through POWERGRID

4.9.5.2 Detailed scope of the scheme is given below:

A. North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)

Sl. No.	**Scope of the Transmission Scheme**	**Capacity (MVA) / Line length (km) / Nos.**	**Estimated Cost (₹ Cr.)**
(a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) **Additional space for future expansion:** • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated	• 420 kV, 1x125 MVAr Bus Reactor: 2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon	₹ 156.78 Cr

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.	Estimated Cost (₹ Cr.)
	ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8 nos. • 400 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 220 kV line bays: 10 nos. • 4x330 MVAr, 765 kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays • 765 kV Bus Sectionaliser: 1 set • 400 kV Bus Sectionaliser: 1 set • 220 kV Bus Sectionaliser: 1 set • 220 kV Bus Coupler bays: 2 Nos. • 220 kV Transfer Bus Coupler bays: 2 Nos.	(POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS)] iii) 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS)]	
(b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS)	About 8 km (4 km Loop-in + 4 km Loop-out)	₹ 40.51 Cr
(c)	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar	About 110 km additional line section	₹ 556.94 Cr

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.	Estimated Cost (₹ Cr.)
	(POWERGRID) – Bornagar (ISTS) 400 kV D/c (Quad) line		
(d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	• 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x80 MVAr - 2 Nos.	₹ 36.45 Cr
(e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line	• 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.	₹ 34.38 Cr
		Total	**₹ 825.06** Cr

Note:

(i) #Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXXV Part-

A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

(ii) The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.

B. North-Eastern Region Expansion Scheme-XXV Part-B (NERES-XXV Part-B)

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.	Estimated Cost (₹ Cr.)
(a)	Conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/c line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement.	• Switching equipment for conversion of existing fixed line reactor to switchable line reactor along with implementation of NGR bypass arrangement - 2 Nos.	₹ 8.18 Cr
		Total	₹ **8.18** Cr

5 Status of the bids under process by BPCs

5.1.1 Both the Bid Process Coordinators [BPCs], i.e, PFCCL and RECPDCL made presentations on under bidding Inter State Transmission Schemes. Salient points of the discussion were as under:

5.1.2 Representative from PFCCL informed that total 25 schemes are under bidding process. Detailed summary of the schemes is as under:

S.N.	Region(s)	No. of projects under bidding
1	LoI issued and SPV to be transferred	4 (SPV transfer expected by August, 2024)
2	e-RA completed	2
3	Bids Under Evaluation	2
4	RfP issued and bids to be submitted	11
5	RfP to be issued	4 (20th NCT)
6	RfP bid submission on hold	2
Total		**25**

5.1.3 Representative from RECPDCL informed that total 20 schemes are under bidding process. Detailed summary of the schemes is as under:

S.N.	Region(s)	Nos. of projects under bidding
1	Bidding Concluded	7
2	Bids Opened & Under Evaluation	2
3	Bids Under Evaluation	8
4	RfP to be issued	3
Total		**20**

5.1.4 Transmission system for evacuation of power from Chhatarpur SEZ (1500 MW) in Madhya Pradesh is also on hold due to non-finalization of location by the REZ. In the 20th meeting of NCT Chairperson, CEA suggested PFCCL to take up the matter with Madhya Pradesh. It was informed that the above mentioned solar park has been cancelled. NCT recommended for denotification of the associated transmission scheme.

5.1.5 Chairperson, CEA directed BPCs to streamline the process of award of Bids, to timely conclude the Bids and highlight the issues, if any.

Summary of the deliberations of the 21st meeting of NCT held on 06th August, 2024

I. Modification in the earlier approved/notified transmission schemes:

1. Modification of implementation schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd. under the scheme "Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects"

NCT approved the change in schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd of the transmission scheme "Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects" as mentioned below:

Package	Scope of the Transmission Scheme	Capacity /km	Schedule	Revised Schedule
A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	• 3x1500 MVA, 765/400 kV ICT • 765 kV ICT bay – 3 Nos. • 400 kV ICT bay – 3 Nos. • 400 kV Bus Sectionaliser – 1 Set	24 months	No change
	Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVAr switchable line reactors at both ends	~ 260 km • 765 kV line bays – 2 Nos. (at Kurnool-III PS) • 765 kV line bays – 2 Nos. (at Chilakaluripeta) • 765 kV, 240 MVAr SLR at Kurnool-III PS – 2 Nos. (6x80 MVAr units) • 765 kV, 240 MVAr SLR at Chilakaluripeta – 2 Nos. (6x80 MVAr units)		
B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.	• 400 kV line bays – 2 Nos.	30.06.26	No change
	4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	• 400 kV line bays – 1 Nos.	30.06.25	**24 Months**
		• 400 kV line bays – 1 Nos.	24 months	No change
		• 400 kV line bays – 2 Nos.	31.03.27	No change
	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	• 400 kV line bays – 2 Nos.	31.12.27	No change
C	Augmentation of 1x1500 MVA 765/400 kV ICT (7th) at Kurnool-II PS	• 1x1500 MVA, 765/400 kV ICT • 765 kV ICT bay – 1 Nos. • 400 kV ICT bay – 1 Nos.	24 months	No change

2. Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

NCT approved the change in implementation time frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 31.12.2026 to 31.12.2027

3. Modification in the scope of works of the transmissions scheme "Transmission Scheme for integration of Davanagere / Chitradurga REZ."

NCT approved the modification in the scope of "Transmission Scheme for integration of Davanagere / Chitradurga REZ" as follows:

Incorporation of one spare 80 MVAr, 765 kV reactor at Narendra New. Cost of the scheme changes from 2640 Cr. to 2651.5 Cr and the percentage variation in the estimated cost is 0.44%.

4. Modification in the Transmission scheme "Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B".

NCT approved the modification in the Transmission scheme "Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B" as mentioned below:

S.No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
1	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVAr (765 kV) & 2x125 MVAr (420 kV) bus reactor at Merta-II S/s **Merta-II S/s -AIS** • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 400/220 kV 500 MVA ICTs -2 Nos. • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- 4 Nos. • 220 kV ICT bays- 2 Nos. • 765kV line bays: 4 Nos. (for 765kV interconnection with Dausa S/s & Barmer-I PS) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s) • 240 MVAr Bus Reactor-2 Nos. (7x80 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAr Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. • 220 kV line bays: 3 Nos. (for RE connectivity)	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVAr (765 kV) & 2x125 MVAr (420 kV) bus reactor at Merta-II S/s **Merta-II S/s –AIS** • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 400/220 kV 500 MVA ICTs **-5 Nos.** • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- **7 Nos.** • 220 kV ICT bays- **5 Nos.** • 765 kV line bays: 4 Nos. (for 765 kV interconnection with Dausa S/s & Barmer-I PS) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s) • 240 MVAr Bus Reactor-2 Nos. (7x80 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAr Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. • 220 kV line bays: **7 Nos. (for RE connectivity)**

	• 220 kV BC (1 No.) bay and 220 kV TBC (1 Nos.) bay • 110 MVAr spare reactor unit (single phase)-1 Nos. **Future provisions at Merta-II S/s:** **Space for** • 765/400 kV ICTs along with bays- 4 Nos. • 765 kV line bays along with switchable line reactors – 8 Nos. • 765 kV Bus Reactor along with bay: 1 Nos. • 400 kV line bays along with switchable line reactor –8 Nos. • 400 kV line bays – 2 Nos. • 400 kV Bus Reactor along with bays: 1 Nos. • 400 kV Sectionalizer bay: 2 sets • 400/220 kV ICTs along with bays -4 Nos. • 220 kV line bays for RE injection -5 Nos. • 220 kV Sectionalizer bay: 2 set • 220 kV BC (2 Nos.) bays and 220 kV TBC (2 Nos.) bays • STATCOM (2x±300 MVAr, 4x125 MVAr MSC, 2x125 MVAr MSR) along with 400 kV bays (2 Nos.)	• 220 kV BC **(2 No.)** bay and 220 kV TBC **(2 Nos.)** bay • 110 MVAr spare reactor unit (single phase)-1 Nos. • **220 kV sectionalizer bay (1 set)** **Future provisions at Merta-II S/s:** **Space for** • 765/400 kV ICTs along with bays- 4 Nos. • 765 kV line bays along with switchable line reactors – 8 Nos. • 765 kV Bus Reactor along with bay: 1 Nos. • 400 kV line bays along with switchable line reactor –8 Nos. • 400 kV line bays – 2 Nos. • 400 kV Bus Reactor along with bays: 1 Nos. • 400 kV Sectionalizer bay: 2 sets • 400/220 kV ICTs along with bays -**1 No.** • 220 kV line bays for RE injection -**1 No.** • 220 kV Sectionalizer bay**: 1 set** • 220 kV BC (**1 No**.) bays and 220 kV TBC (**1 No**.) bays • STATCOM (2x±300 MVAr, 4x125 MVAr MSC, 2x125 MVAr MSR) along with 400 kV bays (2 Nos.)
2	Barmer-I PS – Merta-II 765 kV D/c line along with 330 MVAr switchable line reactor for each circuit at each end of Barmer-I PS – Merta-II 765 kV D/c line	**No Change**
3	Merta-II – Beawar 400 kV D/c line (Quad)	
4	Merta-II – Dausa 765 kV D/c line along with 240 MVAr switchable line reactor for each circuit at each end of Merta-II – Dausa 765 kV D/c line line	
5	2 Nos. 765 kV line bays each at Barmer-I PS & Dausa S/s	
6.	2 Nos. 400 kV line bays at Beawar S/s	

II. De-notification of the earlier approved/notified transmission schemes:

1. Denotification of the transmission scheme "Transmission system for evacuation of power from Chhatarpur SEZ (1500 MW) in Madhya Pradesh"

MoP vide Gazette dated 19.07.2021 notified the transmission scheme "Transmission system for evacuation of power from Chhatarpur SEZ (1500 MW) in Madhya Pradesh" with PFCCL as bid process coordinator. In the 21st meeting of NCT, it was informed that above mentioned solar park has been cancelled. NCT recommended for denotification of the associated transmission scheme.

III. ISTS Transmission schemes, approved by NCT:

1. The transmission schemes approved by NCT under RTM route is given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (₹ Cr)
1.	Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station in Karnataka and Implementation of 1 Nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing Connectivity to RE generation project	RTM through POWERGRID	21 months	118
2.	North-Eastern Region Expansion Scheme-XXV Part-B (NERES-XXV Part-B)	RTM through POWERGRID	36 months (matching with North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A))	8.18

The broad scope of above schemes are given below

Sl. No.	Name of Scheme & Tentative implementation timeframe	Broad Scope
1.	Augmentation of transformation capacity by 2x500 MVA (9th&10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station in Karnataka and Implementation of 1 Nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing Connectivity to RE generation project	**Package A** i. Augmentation of transformation capacity by 2x500 MVA (9th & 10th), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station ii. Additional land of about 100 m (width) x 540 m (length) on right side of the Tumkur (Pavagada) PS for expansion of Tumkur (Pavagada) PS with 2 Nos. of additional 500 MVA ICTs & 220 kV line bays **Package B**

	Implementation Timeframe: 21 Months	i. Implementation of 1 Nos. of 220 kV line bay at Tumkur (Pavagada) 400/220 kV PS for providing Connectivity to RE generation project **Package C** i. Modification in the implementation schedule of 8th ICT, approved in 17th NCT meeting held on 31.01.2024 alongwith 7th ICT at Tumkur (Pavagada) and allocated to POWERGRID vide CEA/CTUIL letter dated 16.02.2024. *The 8th ICT for N-1 contingency criteria may be implemented in the same timeframe of 9th & 10th ICTs at Tumkur (Pavagada).* **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**
2.	North-Eastern Region Expansion Scheme-XXV Part-B (NERES-XXV Part-B) **Implementation Timeframe:** 36 Months [matching with North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)]	Conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/c line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400kV D/c (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**

2. The transmission schemes approved by NCT under TBCB route is given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	BPC	Estimated Cost (₹ Crs)
1.	Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS)	TBCB	24 months	RECPDCL	172
2.	Augmentation of transformation capacity at KPS1 (GIS) and KPS2 (GIS) (Phase-V Part B1 and Part B2 scheme)	TBCB	24 Months	RECPDCL	466

3.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS(Section-II) and Barmer-I PS	TBCB	21 months and Matching with Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme *(Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme expected SPV transfer: Aug'24 with 24 months schedule)*	PFCCL	403.83

The broad scope of above schemes is given below

Sl. No.	**Name of Scheme & Tentative implementation timeframe**	**Broad Scope**	**Bid Process Coordinator**
1.	Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS) **Implementation Timeframe: 24 Months**	Augmentation of transformation capacity at Banaskantha (Raghanesda) PS (GIS) by 2x500 MVA 400/220 kV ICTs (3rd & 4th) • *500 MVA, 400/220 kV ICTs: 2 Nos.* • *400 kV ICT bays: 2 Nos. (+ 2 Nos. for dia completion with provision of Switchable LR)* • *220 kV ICT bays: 2 Nos.* **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**	RECPDCL
2.	Augmentation of transformation capacity at KPS1 (GIS) Part B1 and KPS2 (GIS) Part B2 (Phase-V) scheme **Implementation Timeframe: 24 Months**	i. Augmentation of transformation capacity at KPS1(GIS) by 1x1500 MVA, 765/400 kV ICT on Bus section-II (9th) • *1500 MVA, 765/400 kV ICT – 1 Nos.* • *765kV ICT bay – 1 Nos. on Bus section-II* • *400 kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-II* ii. Augmentation of transformation capacity at KPS2(GIS) by 1x1500 MVA, 765/400 kV ICT on Bus section-I (9th) • *1500 MVA, 765/400 kV ICT – 1 Nos.* • *765kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-I* • *400 kV ICT bay – 1 Nos. (+1 Nos. (with Sw. LR bay provision) for Dia. Completion in GIS) on Bus section-I*	RECPDCL

		(Detailed scope as approved by 21st NCT and subsequent amendments thereof)	
3.	A. Augmentation with 765/400 kV, 1x1500 MVA Transformer (7th) at Fatehgarh-II PS **Implementation Timeframe: 21 Months** from SPV transfer B. Augmentation with 400/220 kV 3x500 MVA (6th to 8th) ICTs at Fatehgarh-IV PS(Section-II) & 400/220 kV 2x500 MVA (3rd & 4th) ICTs at Barmer-I PS **Implementation Timeframe:** Matching with Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme. Rajasthan REZ Ph-IV (Part-2:5.5 GW) Scheme expected SPV transfer: Aug'24 with 24 months schedule	i. Augmentation with 765/400 kV, 1x1500 MVA Transformer (7th) at Fatehgarh-II PS along with associated transformer bays • *1500 MVA, 765/400 kV ICT - 1 Nos.* • *765 kV ICT bay – 1 Nos.* • *400 kV ICT bay – 1 Nos.* i. Augmentation with 400/220 kV, 3x500 MVA (6th ,7th & 8th) ICTs at Fatehgarh-IV PS(Section-II) along with associated transformer bays ii. Augmentation with 400/220 kV, 2x500 MVA (3rd & 4th) ICTs at Barmer-I PS along with associated transformer bays **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**	PFCCL

IV. ISTS Transmission schemes, costing greater than ₹ 500 Crore, recommended by NCT to MoP:

The ISTS transmission schemes recommended by NCT to MoP are given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	BPC	Estimated Cost (₹ Crs)

1.	Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Ph-I: 3.0 GW)	TBCB	36 Months	PFCCL	2775
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex	TBCB	24 Months	RECPDCL	5027.61 (NR Portion : 2897.4.4) WR Portion : 2130.21)
3.	North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)	TBCB	36 Months	PFCCL	825.06

The broad scope of the above ISTS schemes to be notified in Gazette of India is as given below:

Sl. No.	**Name of Scheme & Tentative implementation timeframe**	**Broad Scope**	**Bid Process Coordinator**
1.	Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 2.465 GW) **Implementation Timeframe: 36 Months**	i. Establishment of 3X1500 MVA 765/400 kV Kandla (GIS) with 2X330 MVAR 765 kV bus reactor and 2X125 MVAR 420 kV bus reactor. ii. Halvad – Kandla(GIS) 765 kV D/c line (140 km) iii. 2 *Nos.*. of 765 kV line bays at Halvad for termination of Halvad – Kandla 765 kV D/c line iv. 240 MVAr switchable line reactors on each ckt at Kandla(GIS) end of Halvad – Kandla 765 kV D/c line (with NGR bypass arrangement) v. ±400 MVAr STATCOM along with 2x125 MVAr MSC & 1x125 MVAr MSR at Kandla(GIS) 400 kV Bus section-I **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**	PFCCL
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-V	**Transmission system for immediate evacuation of power from Sirohi S/s (2 GW)**	RECPDCL

	(Part-1: 4 GW) [Sirohi/Nagaur] Complex **Implementation timeframe : 24 months**	i. 5x500 MVA, 400/220 kV ICTs at Sirohi S/s along with associated transformer bays ii. 6 Nos. 220 kV line bays at Sirohi S/s for RE interconnection iii. 220 kV Sectionalizer bay (1 set) along with 220 kV BC (2 Nos.) bay and 220 kV TBC (2 Nos.) bay at Sirohi S/s **Transmission system for common evacuation of power from Sirohi PS (2 GW) & Merta-II PS (2 GW)** i. Sirohi – Mandsaur PS 765 kV D/c line along with 240 MVAr switchable line reactor at Sirohi S/s end and 330 MVAr switchable line reactor at Mandsaur PS end for each circuit of Sirohi – Mandsaur PS 765KV D/c line (~320 Km.) ii. Mandsaur PS – Khandwa (New) 765kV D/c line along with 240 MVAr switchable line reactor for each circuit at each end of Mandsaur PS – Khandwa (New) 765 kV D/c line (~260 Km.) **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**	
3.	North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A) **Implementation timeframe:** 36 Months	i. Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) ii. LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar (ISTS) iii. Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line iv. Installation of 420 kV, 1x80MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in	PFCCL

		each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s v. Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line **(Detailed scope as approved by 21st NCT and subsequent amendments thereof)**	

Annexure-I

List of participants of the 21st meeting of NCT

CEA:

1. Sh. Ghanshyam Prasad, Chairperson, CEA & Chairman, NCT
2. Sh. Ajay Talegaonkar, Member (E&C)
3. Sh. A.K. Rajput, Member (Power Systems)
4. Sh. Ishan Sharan, Chief Engineer (PSPA-I)
5. Sh. B.S. Bairwa, Chief Engineer (I/C) (PSPA-II)
6. Sh. Rahul Raj, Director (PSPA-II)
7. Sh. Praveen Kumar Sahukari, Deputy Director (F&CA)
8. Sh. Manish Kumar Verma, Assistant Director (PSPA-II)

MoP:

1. Sh. Om Kant Shukla, Director (Trans.)

MNRE:

1. Sh. Tarun Singh, Scientist E
2. Sh. Prasad Chaphekar, Deputy Secretary

SECI:

1. Sh. R.K. Agarwal, Consultant
2. Sh. Prashant Kumar Upadhyay, Sr. Manager
3. Sh. Shubham Mishra, Sr. Manager

NITI Aayog:

1. Sh. Manoj Kumar Upadhyay, Deputy Advisor

CTUIL:

1. Sh. P C Garg, COO
2. Sh. Ashok Pal, Deputy COO
3. Sh. K K Sarkar, Sr GM
4. Sh. P.S. Das, Sr GM
5. Sh. Rajesh Kumar, Sr GM
6. Sh. Kashish Bhambhani, GM
7. Sh. Bhaskar Wagh, DGM
8. Sh. Sandeep Kumawat, DGM
9. Sh. Manish Ranjan Keshari, Chief Manager

GRID India:

1. Sh. S.R. Narasimhan, CMD
2. Sh. Rajiv Porwal, Director (SO)
3. Sh. Vivek Pandey, Senior GM
4. Sh. Priyam Jain, Chief Manager
5. Sh. Gaurab Dash, Dy. Manager

RECPDCL

1. Sh. T.S.C. Bosh, CEO
2. Sh. Satyaban Sahu, GM (Tech)

PFCCL

1. Sh. Navin Phogat, GM (Tech)
2. Sh. Rishab Jain, GM
3. Sh. Deepak Kumar, AM

Expert Member

1. Sh. Ravinder Gupta, Ex Chief Engineer, CEA

***

ANNEXURE P-5

रजिस्ट्री सं. डी.एल.- 33004/99 REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

सी.जी.-डी.एल.-अ.-31082024-256815
CG-DL-E-31082024-256815

असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 3377] नई दिल्ली, शुक्रवार, अगस्त 30, 2024/भाद्र 8, 1946
No. 3377] NEW DELHI, FRIDAY, AUGUST 30, 2024/BHADRA 8, 1946

विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 29 अगस्त, 2024

का.आ. 3706(अ).—विद्युत अधिनियम, 2003 (2003 की सं. 36,) की धारा 63 के अंतर्गत परिचालित दिशा-निर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केंद्र सरकार, राष्ट्रीय पारेषण समिति की 21वीं बैठक की सिफारिशों पर, संबंधित बोली-प्रक्रिया समन्वयकों (बीपीसी) के विवरण के साथ टीबीसीबी मोड के अंतर्गत निम्नलिखित पारेषण स्कीमों को अधिसूचित करती है:—

क्र.सं	पारेषण स्कीम का नाम और कार्यक्षेत्र
1.	**गुजरात के कांडला क्षेत्र में हरित हाइड्रोजन/अमोनिया विनिर्माण क्षमता को विद्युत आपूर्ति के लिए पारेषण प्रणाली (चरण-I: 3 गीगावाट)** संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण से 36 माह **बीपीसी: पीएफ़सी कंसल्टिंग लिमिटेड** **कार्य-क्षेत्र:**

क्र.सं	पारेषण स्कीम का कार्यक्षेत्र	क्षमता/मार्ग लंबाई (किमी)
1.	2x330 एमवीएआर 765 केवी बस रिएक्टर और 2x125 एमवीएआर 420 केवी बस रिएक्टर के साथ	• 765/400 केवी, 1500 एमवीए आईसीटी- 3 • 765 केवी आईसीटी बे- 3

			3x1500 एमवीए, 765/400 केवी कांडला (जीआईएस) की स्थापना। **भावी प्रावधान: के लिए स्थान** ➢ बे सहित 765/400 केवी आईसीटी – 3 (खंड-II पर) ➢ स्विचेबल लाइन रिएक्टर के साथ-साथ 765 केवी लाइन बे – 2 (खंड-I पर) और 4 (खंड-II पर) ➢ बे सहित 765 केवी बस रिएक्टर : 2 (खंड-II पर) ➢ 765 केवी सेक्शनलाइजर: 1-सेट ➢ स्विचेबल लाइन रिएक्टरों के साथ 400 केवी लाइन बे - 12 (खंड-I पर 6 और खंड-II पर 6) ➢ बे के साथ-साथ 400/220 केवी आईसीटी – 6 (खंड-I और खंड-II पर 3-3) ➢ बे सहित 400 केवी बस रिएक्टर-2(खंड-II) ➢ 400 केवी सेक्शनलाइजेशन बे: 1-सेट ➢ 220 केवी लाइन बे: 12 (खंड-I और खंड-II पर 6-6) ➢ 220 केवी सेक्शनलाइजेशन बे: 1सेट ➢ 220 केवी बीसी: 2 ➢ 2x125 एमवीएआर एमएससी और 1x125 एमवीएआर एमएसआर के साथ 2 स्टेटकॉम (±400 एमवीएआर) और संबंधित बे-2 (400 केवी खंड-I पर 1 और 400 केवी खंड-II पर 1)	• 400 केवी आईसीटी बे- 3 • 330 एमवीएआर 765 केवी बस रिएक्टर- 2 • 125 एमवीएआर 420 केवी बस रिएक्टर- 2 • 765 केवी रिएक्टर बे- 2 • 765 केवी लाइन बे- 2 • 400 केवी रिएक्टर बे- 2 • 500 एमवीए, 765/400 केवी 1-पीएचस्पेयर आईसीटी-1 • 110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/बस रिएक्टर के लिए अतिरिक्त इकाई)-1
		2.	हलवद - कांडला (जीआईएस) 765 केवी डी/सी लाइन	140 किमी (लगभग)
		3.	हलवद-कांडला 765 केवी डी/सी लाइन को समाप्त करने के लिए हलवद में 2 765 केवी लाइन बे	765 केवी लाइन बे - 2 (हलवद छोर के लिए)
		4.	हलवद–कांडला 765 केवी डी/सी लाइन के कांडला (जीआईएस) छोर पर प्रत्येक सीकेटी पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर (एनजीआर बाईपास व्यवस्था के साथ)	• 240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर- 2 • 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2 • 80 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/बस रिएक्टर के लिए अतिरिक्त इकाई)-1
		5.	कांडला (जीआईएस) 400 केवी बस सेक्शन-I में 2x125 एमवीएआर एमएससी एवं 1x125 एमवीएआर एमएसआर के साथ ± 400 एमवीएआर स्टेटकॉम	• 2x125 एमवीएआर एमएससी और 1x125 एमवीएआर एमएसआर के साथ ±400 एमवीएआर स्टेटकॉम • 400 केवी बे - 1
			नोट: *कांडला क्षेत्र में विभिन्न ग्रीन हाइड्रोजन/अमोनिया विकासकर्ताओं को भूमि आवंटन के संबंध में दीन दयाल पोर्ट अथॉरिटी के साथ प्रारंभिक चर्चा के अनुसार, कांडला एस/एस को भीमासर क्षेत्र के पास स्थापित करने का प्रस्ताव है और तदनुसार कांडला-हलवद लाइन की लाइन की लंबाई पर भी विचार किया गया है। तथापि,*	

		सबस्टेशन का सटीक स्थान बीपीसी/सर्वेक्षण एजेंसी द्वारा दीन दयाल पोर्ट अथॉरिटी और अन्य हितधारकों के परामर्श से अंतिम रूप दिया जाएगा। *इसके अलावा, हलवद एस/एस की टीएसपी उपरोक्त क्रम संख्या 3 पर कार्यक्षेत्र के लिए स्थान उपलब्ध कराएगी।*	
2.	**राजस्थान आरईजेड चरण-V (भाग-1: 4 गीगावाट) [सिरोही/नागौर] परिसर से विद्युत की निकासी के लिए पारेषण प्रणाली** संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण से 24 माह **बीपीसी: आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड** **कार्य-क्षेत्र:**		
	क्र.सं	**पारेषण तत्व का विवरण**	**कार्य-क्षेत्र (सबस्टेशन का प्रकार/कंडक्टर क्षमता/किमी/बे की संख्या आदि)**
	1. सिरोही एस/एस (2 गीगावाट) से विद्युत की तत्काल निकासी के लिए पारेषण प्रणाली		
	1.	ट्रांसफार्मर बे के साथ सिरोही एस/एस में 5x500 एमवीए, 400/220 केवी आईसीटी	• 400/220 केवी 500 एमवीए आईसीटी- 5 • 400 केवी आईसीटी बे-5 • 220 केवी आईसीटी बे- 5
	2.	नवीकरणीय ऊर्जा इंटर कनेक्शन के लिए सिरोही एस/एस में 6 220 केवी लाइन बे	• 220 केवी लाइन बे – 6
	3.	सिरोही एस/एस में 220 केवी बीसी (2) बे और 220 केवी टीबीसी (2) बे के साथ 220 केवी सेक्शनलाइजर बे (1 सेट)	• 220 केवी सेक्शनलाइज़र बे (1 सेट) • 220 केवी बीसी (2) बे और 220 केवी टीबीसी (2) बे
	2. सिरोही पीएस (2 गीगावाट) और मेड़ता-II पीएस (2 गीगावाट) से विद्युत की सामान्य निकासी के लिए पारेषण प्रणाली		
	4.	सिरोही छोर पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर के साथ सिरोही – मंदसौर पीएस 765 केवी डी/सी लाइन और सिरोही – मंदसौर पीएस 765 केवी डी/सी लाइन के मंदसौर पीएस छोर पर 330 एमवीएआर स्विचेबल लाइन रिएक्टर	लाइन की लंबाई -320 किमी (लगभग) • सिरोही एस/एस पर 765 केवी लाइन बे – 2 • मंदसौर पीएस पर 765 केवी लाइन बे – 2 • सिरोही एस/एस छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर – 2 • मंदसौर पीएस छोर पर 765 केवी, 330 एमवीएआर स्विचेबल लाइन रिएक्टर – 2 • सिरोही एस/एस छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण – 2 • मंदसौर पीएस छोर पर 765 केवी, 330 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण – 2
	5.	मंदसौर पीएस – खंडवा (नया) 765 केवी डी/सी लाइन के प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर के साथ मंदसौर पीएस – खंडवा (नया) 765 केवी डी/सी लाइन	लाइन की लंबाई ~260 किमी (लगभग) • मंदसौर पीएस पर 765 केवी लाइन बे - 2 • खंडवा (नया) पर 765 केवी लाइन बे - 2 • मंदसौर पीएस छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर - 2 • खंडवा (नया) छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर - 2 • मंदसौर पीएस छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण - 2 • खंडवा (नया) छोर पर 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण - 2

नोट:

- *सिरोही एस/एस के विकासकर्ता 2 765 केवी लाइन बे, 400/220 केवी आईसीटी, 220 केवी लाइन बे के लिए जगह उपलब्ध कराएंगे। 220 केवी सेक्शनलाइजर बे के साथ 220 केवी बीसी बे और 220 केवी टीबीसी बे, स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण के साथ) सिरोही एस/एस में दायरे के अनुसार*
- *मंदसौर पीएस के विकासकर्ता 4 765 केवी लाइन बे, स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण के साथ) के लिए जगह उपलब्ध कराएंगे*
- *मेसर्स स्टरलाइट खंडवा एस/एस में 2 765 केवी लाइन बे स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण के साथ) के लिए जगह उपलब्ध कराएंगे*
- *उपरोक्त उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी*

उत्तर-पूर्वी क्षेत्र विस्तार स्कीम-XXV भाग-क(एनईआरईएस -XXV भाग-क)

3. **अनुमानित कार्यान्वयन समय:** एसपीवी हस्तांतरण से 36 महीने

बीपीसी: पीएफ़सी कंसल्टिंग लिमिटेड

कार्य क्षेत्र:

क्रम संख्या	पारेषण स्कीम का कार्य क्षेत्र	**क्षमता (एमवीए) / लाइन की लंबाई (किमी) /संख्या**
1.	असम में (भविष्य में 765 केवी और 220 केवी स्तर स्थापित किए जाएंगे) नए 400 केवी बोरनगर (आईएसटीएस) स्विचिंग स्टेशन की स्थापना **भविष्य के विस्तार के लिए अतिरिक्त स्थान:** • 6x1500 एमवीए, 765/400 केवी आईसीटी (19x500 एमवीए एकल फ़ेज़ जिसमें एक अतिरिक्त इकाई शामिल है) दोनों वोल्टेज स्तरों पर संबद्ध आईसीटी बे के साथ • 5x500 एमवीए, 400/220 केवी आईसीटी दोनों वोल्टेज स्तरों पर संबद्ध आईसीटी बे के साथ • भविष्य की लाइनों के लिए 765 केवी लाइन बे (स्विचेबल लाइन रिएक्टर के लिए स्थान के साथ): 8 । • भविष्य की लाइनों के लिए 400 केवी लाइन बे (स्विचेबल लाइन रिएक्टर के लिए स्थान के साथ): 8 । • 220 केवी लाइन बे: 10 । • 4x330 एमवीएआर, 765 kV बस रिएक्टर (13x110 एमवीएआर सिंगलफ़ेज़ जिसमें एक अतिरिक्त इकाई शामिल है) संबद्ध बे के साथ • 3x125 एमवीएआर, 420 केवी बस रिएक्टर और संबंधित बे • 765 केवी बस सेक्शनलाइज़र: 1 सेट • 400 केवी बस सेक्शनलाइज़र: 1 सेट • 220 केवी बस सेक्शनलाइज़र: 1 सेट • 220 केवी बस कपलर बे: 2 • 220 केवी ट्रांसफर बस कपलर बे: 2	• 420 केवी, 1x125 एमवीएआर बस रिएक्टर: 2 • 400 केवी बस रिएक्टर बे: 2 • • 400 केवी लाइन बे: • i) 1x80 एमवीएआरबी स्विचेबल लाइन रिएक्टर की स्थापना के प्रावधान के साथ 2 [अलीपुरद्वार (पावरग्रिड) - बोरनगर (आईएसटीएस) 400 केवी डी/सी (क्वाड) लाइन की समाप्ति के लिए, जो अलीपुरद्वार (पावरग्रिड) - बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन को बोंगाईगांव (पावरग्रिड) छोर से बोरनगर (आईएसटीएस) एस/एस तक स्थानांतरित करने के बाद बनाई गई है] • ii) 2 [बोंगाईगांव (पावरग्रिड) - बोरनगर (आईएसटीएस) 400 केवी डी/सी (क्वाड) लाइन की समाप्ति के लिए बोरनगर (आईएसटीएस) में मौजूदा बोंगाईगांव (पावरग्रिड) के दोनों सर्किटों के एलआईएलओ के बाद बनाई गई बोरनगर (आईएसटीएस) पर बालीपारा (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन] iii) 2: प्रत्येक 1x63 एमवीएआर स्विचेबल लाइन रिएक्टर की स्थापना के प्रावधान के साथ [बोरनगर (आईएसटीएस) की समाप्ति के लिए बोंगाईगांव (पावरग्रिड)-बोरनगर (आईएसटीएस) पर बालीपारा (पावरग्रिड) 400 केवी डी/सी (क्वाड)

		लाइन के मौजूदा दो सर्किटों के एलआईएलओ के बाद बालीपारा (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन बनाई गई]
2.	बोरनगर (आईएसटीएस) में मौजूदा बोंगाईगांव (पावरग्रिड)-बालीपारा (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन के दोनों सर्किटों का लीलो	लगभग 8 किमी (4 किमी लूप-इन + 4 किमी लूपआउट)
3.	# बोंगाईगांव (पावरग्रिड) छोर और बोरनगर (आईएसटीएस) में समाप्ति के लिए जिससे कि अलीपुरद्वार (पावरग्रिड) बने – बोरनगर (आईएसटीएस) 400 केवी डी/सी (क्वाड) लाइन से अलीपुरद्वार (पावरग्रिड) - बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन को अलग करना।	लगभग 110 किमी अतिरिक्त लाइन खंड
4.	अलीपुरद्वार (पावरग्रिड) के प्रत्येक सर्किट में बोरनगर (आईएसटीएस) छोर पर 420 केवी 1x80 एमवीएआर स्विचेबल लाइन रिएक्टर (500 ओम एनजीआर और एनजीआर बाईपास व्यवस्था के साथ) की स्थापना - बोरनगर 400 केवी डी/सी (क्वाड) लाइन अलीपुरद्वार (पावरग्रिड) - बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन को बोंगाईगांव (पावरग्रिड) छोर से बोरनगर (आईएसटीएस) एस/एस तक स्थानांतरित करने के बाद बनाई गई है।	• • 420 केवी, 1x80 एमवीएआर स्विचेबल लाइन रिएक्टर (500 ओमएनजीआर और एनजीआर बाईपास व्यवस्था के साथ) - 2। • 420 केवी, 1x80 एमवीएआर के स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण - 2 ।
5.	बोरनगर (आईएसटीएस) के प्रत्येक सर्किट में बोरनगर (आईएसटीएस) के अंत में 420 केवी, 1x63 एमवीएआर स्विचेबल लाइन रिएक्टर (400 ओम एनजीआर और एनजीआर बाईपास व्यवस्था के साथ) की स्थापना - मौजूदा बोंगाईगांव (पावरग्रिड) - बालिपारा (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन के दोनों सर्किटों के लीलो के बाद बनाई गई 400 केवी डी/सी (क्वाड) लाइन	• 420 kV, 1x63 एमवीएआर स्विचेबल लाइन रिएक्टर (400 ओम एनजीआर और एनजीआर बाईपास व्यवस्था के साथ) - 2 • 420 केवी, 1x63 एमवीएआर के स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण - 2 ।
		कुल

टिप्पणी:

(i) #सिलीगुड़ी (पावरग्रिड) – बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन का क्रियान्वयन मेसर्स ईस्ट नॉर्थ इंटरकनेक्शन कंपनी लिमिटेड (मेसर्स ईएनआईसीएल, मेसर्स स्टरलाइट की एसपीवी) द्वारा किया गया। दोनों छोर पर लाइन बे का क्रियान्वयन पॉवरग्रिड द्वारा किया गया। इसके अलावा, इस लाइन को अलीपुरद्वार (पावरग्रिड) एस/एस पर पॉवरग्रिड द्वारा लाइन समाप्ति के लिए लाइन बे के क्रियान्वयन के साथ एलआईएलओ किया गया, जिसके परिणामस्वरूप अलीपुरद्वार (पावरग्रिड) – बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन का निर्माण हुआ। अलीपुरद्वार (पावरग्रिड) – बोंगाईगांव (पावरग्रिड) 400 केवी डी/सी (क्वाड) लाइन (जिसका आंशिक स्वामित्व मेसर्स ईएनआईसीएल और आंशिक रूप से पावरग्रिड के पास है) को बोंगाईगांव (पावरग्रिड) छोर से अलग किया जाना है और बोरनगर (आईएसटीएस) एस/एस पर समाप्त करने के लिए विस्तारित किया जाना है ताकि अलीपुरद्वार (पावरग्रिड) – बोरनगर (आईएसटीएस) 400 केवी डी/सी (क्वाड) लाइन बनाई जा सके। लाइन को स्थानांतरित करने के बाद, बोंगाईगांव (पावरग्रिड) छोर पर अप्रयुक्त छोड़े गए लाइन सेक्शन को एंटी-थेफ्ट चार्ज रखने की आवश्यकता है ताकि भविष्य में नई लाइन के समापन के लिए इसका उपयोग किया जा सके। इसके अलावा, अलीपुरद्वार (पावरग्रिड) - बोंगाईगांव (पावरग्रिड) लाइन को बोंगाईगांव (पावरग्रिड) एस/एस से बोरनगर (आईएसटीएस) एस/एस में स्थानांतरित करने पर, बोंगाईगांव के माध्यम से सभी परिचालन संचार लिंक की कनेक्टिविटी सुनिश्चित की जानी है। इसके लिए आवश्यकतानुसार अतिरिक्त ओपीजीडब्ल्यू और एफओटीई की योजना बनाने

	की जरूरत है। एनईआरईएस-XXXV पार्ट ए योजना को लागू करने वाले आईएसटीएस लाइसेंसधारी को लाइन शिफ्टिंग के लिए मेसर्स ईएनआईसीएल के साथ समन्वय करने और बोंगाईगांव (पावरग्रिड) छोर पर अप्रयुक्त लाइन सेक्शन को चोरी-रोधी चार्ज रखने की जरूरत है। *(ii) ऊपर बताई गई लाइन की लंबाई अनुमानित है क्योंकि विस्तृत सर्वेक्षण के बाद सटीक लाइन की लंबाई प्राप्त की जाएगी।*

2. बोली प्रक्रिया समन्वयक की नियुक्ति विद्युत मंत्रालय द्वारा इस संबंध में जारी दिशानिर्देशों में समय-समय पर संशोधित निर्धारित शर्तों के अधीन होगी।

[फा. सं. 15/3/2018-ट्रांस-भाग(4)]

नाओरेम इंद्रकुमार सिंह, अवर सचिव

MINISTRY OF POWER

NOTIFICATION

New Delhi, the 29th August, 2024

S.O. 3706(E).—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (No. 36 of 2003), the Central Government, on the recommendations of 21st meeting of National Committee on Transmission, hereby notifies the following transmission schemes under TBCB mode, with details of respective Bid-Process Coordinators (BPCs):—

<table>
<tr><th>Sl. No.</th><th>Name & Scope of the Transmission Scheme</th></tr>
<tr><td>1.</td><td>Transmission System for supply of power to Green Hydrogen/ Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 3 GW)
Tentative implementation timeframe : 36 months from SPV transfer
BPC: PFC Consulting Limited
Scope:
<table>
<tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity/ Line Length (Km)</th></tr>
<tr><td>1.</td><td>Establishment of 3x1500 MVA, 765/400 kV Kandla(GIS) with 2x330 MVAR 765 kV bus reactor and 2x125 MVAR 420 kV bus reactor.
Future Provisions: Space for
➢ 765/400 kV ICT along with bays-3 Nos. (on Sec-II)
➢ 765 kV line bays along with switchable line reactors – 2 Nos. (on Sec-I) & 4 Nos. (on Sec-II)
➢ 765 kV Bus Reactor along with bay: 2 Nos. (on Sec-II)
➢ 765 kV Sectionaliser: 1 -set
➢ 400 kV line bays along with switchable linereactors– 12 Nos. (6 on Sec-I & 6 on Sec-II)
➢ 400/220 kV ICT along with bays-6 Nos.(3 Nos. each on Sec-I & Sec-II)
➢ 400 kV Bus Reactor along with bays: 2 Nos. (Sec-II)
➢ 400 kV Sectionalization bay: 1-set
➢ 220 kV line bays: 12 Nos. (6 nos. each on Sec-I &Sec-II)
➢ 220 kV Sectionalization bay: 1set
➢ 220 kV BC: 2 Nos.
➢ 2 Nos. STATCOM (±400 MVAR) along with2x125 MVAr MSC & 1x125 MVAr MSR and associated bays-2Nos. (1 on 400kV Sec-I and 1 on400 kV Sec-II)</td><td>• 765/400 kV, 1500 MVA ICT-3Nos.
• 765 kV ICT bays- 3 Nos.
• 400 kV ICT bays- 3 Nos.
• 330 MVAR 765 kV bus reactor-2Nos.
• 125 MVAR 420 kV bus reactor-2Nos.
• 765 kV reactor bay- 2 Nos.
• 765 kV line bay- 2 Nos.
• 400 kV reactor bay- 2 Nos.
• 500 MVA, 765/400 kV 1-PhSpare ICT-1
• 110 MVAR, 765 kV, 1-ph reactor(spare unit for line/bus reactor)-1</td></tr>
</table></td></tr>
</table>

	2.	Halvad – Kandla(GIS) 765 kV D/c line	140 km (approx.)
	3.	2 Nos. of 765 kV line bays at Halvad for termination of Halvad – Kandla 765 kV D/c line	765 kV line bays– 2 Nos. (for Halvad end)
	4.	240 MVAr switchable line reactors on each ckt at Kandla (GIS) end of Halvad – Kandla 765 kV D/c line (with NGR bypass arrangement)	• 240 MVAr, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765kV line reactor- 2 Nos. • 80 MVAR, 765 kV, 1-phreactor (spare unit for line/bus reactor)-1 No.
	5.	± 400 MVAr STATCOM along with 2x125 MVAr MSC & 1x125 MVAr MSR at Kandla(GIS) 400 kV Bus section-I	• ±400 MVAr STATCOM along with 2x125 MVAr MSC& 1x125 MVAr MSR • 400 kV bay – 1 No.
		Note: *As per initial discussions with Deen Dayal Port Authority w.r.t. land allocation done to various Green Hydrogen/Ammonia developers in Kandla area, Kandla S/s is proposed to be located near Bhimasar area and line length of Kandla-Halvad line has been considered accordingly. However, exact location of the substation would be finalized bythe BPC/Survey Agency in consultation with Deen Dayal Port Authority and other stakeholders.* *Further, TSP of Halvad S/s shall provide space for scope at Sl. No. 3 above.*	

2. Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex

Tentative implementation timeframe: 24 months from SPV transfer

BPC: REC Power Development and Consultancy Limited

Scope:

Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)
1. Transmission system for immediate Evacuation of Power from Sirohi S/s (2 GW)		
1.	5x500 MVA, 400/220 kV ICTs at Sirohi S/s along with transformer bays	• 400/220 kV 500 MVA ICTs- 5 Nos. • 400 kV ICT bays-5 Nos. • 220 kV ICT bays- 5 Nos.
2.	6 Nos. 220 kV line bays at Sirohi S/s for RE interconnection	• 220 kV line bays – 6 Nos.
3.	220 kV Sectionalizer bay (1 set) along with 220 kV BC (2 Nos.) bay and 220 kV TBC (2 Nos.) bay at Sirohi S/s	• 220 kV Sectionalizer bay (1 set) • 220 kV BC (2 Nos.) bay and 220 kV TBC(2 Nos.) bay
2. Transmission system for Common Evacuation of Power from Sirohi PS (2 GW) &Merta-II PS (2GW)		
4.	Sirohi – Mandsaur PS 765 kV D/c line along with 240 MVAr switchable line reactor at Sirohi end and 330 MVAr switchable line reactor at Mandsaur PS end for each circuit of Sirohi –Mandsaur PS 765KV D/c line	Line Length -320 km (approx.) • 765 kV line bays at Sirohi S/s – 2 Nos. • 765 kV line bays at Mandsaur PS – 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Sirohi S/s end– 2 Nos. • 765 kV, 330 MVAr switchable line reactors at Mandsaur PS end– 2 Nos. • Switching equipment for 765kV, 240 MVAr switchable line reactors at Sirohi S/s end – 2Nos. • Switching equipment for 765kV, 330 MVAr switchable line reactors at Mandsaur PS end– 2 Nos.
5.	Mandsaur PS – Khandwa (New) 765 kV D/c line along with 240 MVAr switchable line reactor for each circuit at each end of Mandsaur PS – Khandwa (New) 765kV D/c line	Line Length ~260 km (Approx) • 765 kV line bays at Mandsaur PS – 2 Nos. • 765 kV line bays at Khandwa (New) – 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Mandsaur PS end– 2 Nos. • 765 kV, 240 MVAr switchable line reactors at Khandwa (New) end– 2 Nos.

			• Switching equipment for 765kV, 240 MVAr switchable line reactors at Mandsaur PS end– 2 Nos. • Switching equipment for 765kV, 240 MVAr switchable line reactors at Khandwa (New)end – 2 Nos.

Note:

- *Developer of Sirohi S/s shall provide space for 2 Nos. of 765 kV line bays, 400/220 kV ICTs, 220 kV line bays.220 kV Sectionalizer bay along with 220 kV BC bay and 220 kV TBC bay, switchable line reactors (along with switching equipment) at Sirohi S/s as per the scope*
- *Developer of Mandsaur PS shall provide space for 4 Nos. of 765 kV line bays, switchable line reactors (alongwith switching equipment) at Mandsaur PS*
- *M/s Sterlite shall provide space for 2 Nos. of 765 kV line bays switchable line reactor (along with switching equipment) at Khandwa S/s*
- T*he line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey*

3. **North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)**

Tentative Implementation Time: 36 months from SPV transfer

BPC: PFC Consulting Limited

Scope:

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.
1.	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) **Additional space for future expansion:** • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 400 kV line bays (along with space for switchable line reactor) for future lines:8 Nos. • 220 kV line bays: 10 Nos. • 4x330 MVAr, 765 kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays • 765 kV Bus Sectionaliser: 1set • 400 kV Bus Sectionaliser: 1set • 220 kV Bus Sectionaliser: 1set • 220 kV Bus Coupler bays: 2 Nos. • 220 kV Transfer Bus Coupler bays: 2 Nos.	• 420 kV, 1x125 MVAr Bus Reactor:2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) –Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar(ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) –Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar(ISTS)] iii) 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar(ISTS)]

2.	LILO of both circuits of existing Bongaigaon (POWERGRID) –Balipara (POWERGRID) 400 kV D/c (Quad) line at Bornagar(ISTS)	About 8 km (4 km Loop in + 4 km Loop out)
3.	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar(POWERGRID) – Bornagar(ISTS) 400 kV D/c (Quad) line	About 110 km additional line section
4.	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/c (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	• 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohmNGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV,1x80 MVAr - 2 Nos.
5.	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/c (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/c (Quad) line	• 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.

Note:

(i) #Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400kV D/c (Quad) line. The Alipurduar(POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/c (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400kV D/c (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future fortermination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar(ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXXV PartA scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

(ii) The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.

2. The appointment of the Bid Process Coordinator is subject to the conditions laid down in the Guidelines issued by Ministry of Power in this regard, amended from time to time.

[F. No. 15/3/2018-Trans-Part(4)]

NAOREM INDRAKUMAR SINGH, Under Secy.

अधिसूचना

नई दिल्ली, 29 अगस्त, 2024

का.आ. 3707(अ).—निम्नलिखित पारेषण स्कीम को नीचे दी गई तालिका में उल्लिखित राजपत्र अधिसूचना के माध्यम से टैरिफ आधारित प्रतिस्पर्धी बोली (टीबीसीबी) के तहत कार्यान्वयन के लिए अधिसूचित किया गया था:

क्रमसं.	स्कीम का नाम	राजपत्र अधिसूचना जिसके द्वारा स्कीम को अधिसूचित किया गया था
1	छतरपुर एसईज़ेड (1500 मेगावाट) से विद्युत निकासी के लिए पारेषण प्रणाली	सां.आ. 2873(अ). दिनांक 19.07.2021 (फा.सं.15/3/2018- ट्रांस-भाग(1))

2. उपर्युक्त स्कीम को दिनांक 06.08.2024 को आयोजित राष्ट्रीय पारेषण समिति (एनसीटी) की 21वीं बैठक में गैर-अधिसूचित करने की अनुशंसा की गई थी। इस प्रकार, उपर्युक्त स्कीम, इसके दायरे सहित, गैर-अधिसूचित की जाती है।

[फा. सं. 15/3/2018-ट्रांस-भाग(4)]

नाओरेम इंद्रकुमार सिंह, अवर सचिव

NOTIFICATION

New Delhi, the 29th August, 2024

S.O. 3707(E).—The following transmission scheme was notified for implementation under Tariff Based Competitive Bidding (TBCB) vide Gazette Notification mentioned in below table:

Sl. No.	Name of the Scheme	Gazette Notification by which Scheme was notified
1	Transmission system for evacuation of power from Chhatarpur SEZ (1500 MW)	S.O. 2873(E). Dated 19.07.2021 (F.No.15/3/2018-Trans-Pt(1))

2. Above mentioned scheme was recommended for de-notification in 21st meeting of National Committee on Transmission (NCT), held on 06.08.2024. As such, above scheme, including its scope is hereby de-notified.

[F. No. 15/3/2018-Trans-Part(4)]

NAOREM INDRAKUMAR SINGH, Under Secy.

Uploaded by Dte. of Printing at Government of India Press, Ring Road, Mayapuri, New Delhi-110064
and Published by the Controller of Publications, Delhi-110054.

ANNEXURE P-6

सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that NER EXPANSION TRANSMISSION LIMITED is incorporated on this SIXTH day of DECEMBER TWO THOUSAND TWENTY FOUR under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U42201DL2024GOI439654**

The Permanent Account Number (PAN) of the company is **AAKCN0288J***

The Tax Deduction and Collection Account Number (TAN) of the company is **DELN29487D***

Given under my hand at Manesar this SIXTH day of DECEMBER TWO THOUSAND TWENTY FOUR

Document certified by DS MINISTRY OF CORPORATE AFFAIRS , CRC MANESAR 1 <ROC.CRC@MCA.GOV.IN>, Validity unknown

Digitally signed by
DS MINISTRY OF CORPORATE
AFFAIRS , CRC MANESAR 1
Date: 2024.12.06 15:51:34 IST

Charan Singh

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

NER EXPANSION TRANSMISSION LIMITED

Urjanidhi, First Floor, 1, Barakhamba Lane, Connaught Place, New Delhi, Central Delhi- 110001, Delhi

*as issued by Income tax Department

Form No. INC-33



Form language

(•) English ( ) Hindi

e-MOA (e-Memorandum of Association)
[Pursuant to Schedule I (see Sections 4 and 5) to the Companies Act, 2013)]

Refer instruction kit for filing the form

*All fields marked in * are mandatory*

*** Table applicable to company as notified under schedule I of the Companies Act, 2013**

(A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES
B - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL
C - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND HAVING A SHARE CAPITAL
D - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND NOT HAVING SHARE CAPITAL
E - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND HAVING SHARE CAPITAL)

A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES

Table A/B/C/D/E

1 The name of the company is

NER EXPANSION TRANSMISSION LIMITED

2 The registered office of the company will be situated in the State of

Delhi

3 (a) The objects to be pursued by the company on its incorporation are:

1. To develop Power System Network
To plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, sub-stations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of state, regional and national grid system, execution of turn-key jobs for other utilities/organizations and wheeling of power in accordance with the policies, guidelines and objectives laid down by the Central Government from time to time.
2. To study, investigate, collect information and data
To study, investigate, collect information and data, review operation, plan, research, design

	and prepare Report, diagnose operational difficulties and weaknesses and advise on the remedial measures to improve, undertake development of new and innovative product connected with business of the Company as well as modernize existing EHV, HV lines and Sub-Stations. 3. To act as Consultants/ Technical Advisers of public/ private sector enterprises etc. To act as consultants, technical advisors, surveyors and providers of technical and other services to Public or Private Sector enterprises engaged in the planning, investigation, research, design and preparations of preliminary, feasibility and definite project reports, manufacture of power plant and equipment, construction, generation, operation and maintenance of power transmission system from power generating stations and projects, transmission, distribution and sale of power.
(b) *Matters which are necessary for furtherance of the objects specified in clause 3(a) are	1. To obtain authority etc. to carry out its objects To obtain license, approvals and authorization from Governmental Statutory and Regulatory Authorities, as may be necessary to carry out and achieve the Objects of the Company and connected matters which may seem expedient to develop the business interests of the Company in India and abroad. 2. To obtain charters, concession etc. To enter into any arrangement with the Government of India or with any State Government or with other authorities/ commissions, local bodies or public sector or private sector undertakings, Power Utilities, Financial Institutions, Banks, International Funding Agencies and obtain such charters, subsidies, loans, advances or other money, grants, contracts, rights, sanctions,

privileges, licenses or concessions whatsoever (whether statutory or otherwise) which the Company may think it desirable to obtain for carrying its activities in furthering the interests of the Company or its members.

3. To enter into Implementation/ Construction Agreement

To enter into any agreement, contract or any arrangement for the implementation of the power generation, evacuation, transmission and distribution system and network with Power/Transmission Utilities, State Electricity Boards, Vidyut Boards, Transmission Companies, Generation Companies, Licensees, Statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc.

4. To carry on the business or purchasing, importing, exporting and trading power

To carry on the business or purchasing, importing, exporting and trading of power subject to the provisions of Electricity Act, 2003 and to supply electric power generated by other plants to distribution companies, trading companies, other generation companies and other Persons, and in this regard execute agreements with Central and State generating authorities, departments or companies, Independent Power Producers and other Persons.

5. To enter into Agreements; etc.

To secure the payments of money, receivables on transmission and distribution of electricity and sale of fuel, as the case may be, to the State Electricity Boards, Vidyut Boards, Transmission Utilities, Generating Companies, Transmission Companies, Distribution Companies, State Governments, Licensees, statutory bodies, other organizations (whether in

Private, Public or Joint Sector Undertaking) and bulk consumers of power etc. through Letter of Credits/ESCROW and other security documents.

6. To execute transmission service Agreements

To execute Transmission Service Agreements or other agreements for transmission of power to distribution, trading, and other companies, State Electricity Boards, State Utilities and any other organization and Persons.

7. To co-ordinate with Central Transmission Utility

To coordinate with the Central Transmission Utility for transmission of electricity under the provisions of Electricity Act 2003.

8. To borrow money

Subject to provisions of Sections 73, 179, 180 and other applicable provisions of the Companies Act, 2013 and subject to other laws or directives, if any, of SEBI/RBI, to borrow money in Indian rupees or foreign currencies and obtain foreign lines of credits/ grants/aids etc. or to receive money or deposits from public for the purpose of the Company's business in such manner and on such terms and with such rights, privileges and obligations as the Company may think fit. The Company may issue bonds/ debentures whether secured or unsecured; bills of exchange, promissory notes or other securities, mortgage or charge on all or any of the immovable and movable properties, present or future and all or any of the uncalled capital for the time being of the Company as the Company may deem fit and to repay, redeem or pay off any such securities or charges.

9. To lend money

To lend money on property or on mortgage of immovable properties or against Bank guarantee and to make advances of money against future supply of

goods and services on such terms as the Directors may consider necessary and to invest money of the Company in such manner as the Directors may think fit and to sell, transfer or to deal with the same.

10. To acquire, own, lease or dispose off the property

To own, possess, acquire by purchase, lease or otherwise rights, title and interests in and to, exchange or hire real estate, equipment, Transmission lines, lands, buildings, apartments, plants, equipment, machinery, fuel blocks and hereditaments of any tenure or descriptions situated in India or abroad or any estate or interest therein and any right over or connected with land so situated and turn the same to account in any manner as may seem necessary or convenient for the purpose of business of the Company and to hold, improve, exploit, re-organize, manage, lease, sell, exchange or otherwise dispose of the whole or any part thereof.

11. To deal in Scrips/Govt. Securities

Subject to applicable provisions of law, to subscribe for, underwrite, or otherwise acquire, hold, dispose of and deal with the shares, stocks, debentures or other securities and titles of indebtedness or the right to participate in profits or other similar documents issued by any Government authority, Corporation or body or by any company or body of persons and any option or right in respect thereof.

12. To create funds and appropriate profits

To create any depreciation fund, reserve fund, sinking fund, insurance fund, gratuity, provident fund or any other fund, for depreciation or for repairing, improving extending or maintaining any of the properties of the Company or for any other purposes whatsoever conducive

to the interests of the Company.

13. To purchase or otherwise acquire companies

To acquire shares, stocks, debentures or securities of any company carrying on any business which this Company is entitled to carry on or acquisition of undertaking itself which may seem likely or calculated to promote or advance the interests of the Company and to sell or dispose of or transfer any such shares, stocks or securities and the acquired undertaking.

14. To enter into partnership Agreement or Merge /amalgamate

To enter into partnership or into any agreement for joint working, sharing or pooling profits, joint venture, amalgamation, union of interests, co-operation, reciprocal concessions or otherwise or amalgamate with any person or company carrying on or engaged in or about to carry on or engaged in any business or transaction in India or abroad which the Company is authorized to carry on or engage in any business undertaking having objects identical or similar to, as are being carried on by this Company.

15. To have agencies and branch offices in India and abroad

To establish and maintain agencies, branch offices and local agencies, to procure business in any part of India and world and to take such steps as may be necessary to give the Company such rights and privileges in any part of the world as deemed proper in the interest of the Company.

16. To promote institutions or other companies

To promote and undertake the formation of any institution or Company or subsidiary company or for any aforesaid objects intended to benefit the Company directly or indirectly and to coordinate, control and guide

their activities.

17(a) To acquire know how and import-export of machinery and tools etc.

To negotiate and enter into agreements and contracts with domestic and foreign companies, persons or other organizations, banks and financial institutions, in relation to the business of the Company including that of technical know-how, import, export, purchase or sale of plant, machinery, equipment, tools, accessories and consumables, financial assistance and for carrying out all or any of the objects of the Company.

17(b) To negotiate and enter into agreements etc.

To negotiate and enter into agreements and contracts for execution of turnkey jobs, works, supplies and export of plant, machinery, tools and accessories etc.

18. To enter into contracts/arrangements in connection with issue of shares/securities. Upon and for the purpose of any issue of shares, debentures or any other securities of the Company, to enter into agreement with intermediaries including brokers, managers of issue/commission agents and underwriters and to provide for the remuneration of such persons for their services by way of payment in cash or issue of shares, debentures or other securities of the Company or by granting options to take the same or in any other manner as permissible under the law.

19. To enter into contracts of indemnity and/or guarantee

To enter into contracts of indemnity and get guarantee and allocations for the business of the Company.

20. To arrange for Training and Development

To make arrangements for training of all categories of employees and to employ or otherwise engage experts,

advisors, consultants etc. in the interest of achieving the Company's objects.

21. To promote conservation, protect environment, theft etc.
To promote conservation and protection of electricity from theft, safety of life and to protect environments including air, land and water etc.

22. To provide for welfare of employees
To pay and provide for the remuneration, amelioration and welfare of persons employed or formerly employed by the Company and their families providing for pension, allowances, bonuses, other payments or by creating for the purpose from time to time the Provident Fund, Gratuity and other Funds or Trusts. Further to undertake building or contributing to the building or houses, dwellings or chawls by grants of money, or by helping persons employed by the Company to effect or maintain insurance on their lives by contributing to the payment of premium or otherwise and by providing or subscribing or contributing towards educational institutions, recreation, hospitals and dispensaries, medical and other assistance as the Company may deem fit.

23. To take Insurance
To ensure any rights, properties, undertakings, contracts, guarantees or obligations or profits of the Company of every nature and kind in any manner with any person, firm, association, institution or company.

24. To share the profits pay, dividends and provide bonus etc
To distribute among members of the Company dividend including bonus shares out of profits, accumulated profits or funds and resources of the Company in any manner permissible under law.

25. To institute and defend the legal proceedings

To institute, conduct, defend, compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and to allow time for payment or satisfaction of any debts or recovery due, claims or demands by or against the Company and to refer any claims or demands by or against the Company or any differences arising in execution of contracts to conciliation and arbitration and to observe, comply with and/or challenge any awards preliminary, interim or final made in any such arbitration.

26. To pay and subsequently write off preliminary expenses

To pay out of the funds of the Company all costs, charges, expenses and preliminary and incidental to the promotion, formation, establishment and registration of the Company or other expenses incurred in this regard.

27. To contribute and make donations

Subject to provisions of Companies Act, 2013 to contribute money or otherwise assist to charitable, benevolent, religious, scientific national, defense, public or other institutions or objects or purposes.

28. To open accounts in Banks

To open an account or accounts with any individual, firm or company or with any bank bankers or shrofs and to pay into and withdraw money from such account or accounts.

29. To accept gifts, donations etc.

To accept gifts, bequests, devises and donations from members and others and to make gifts to members and others of money, assets and properties of any kind.

30. To pursue the objects of the Company as principal, agents,

trustee or in any other capacity To carry out all or any of the objects of the company and do all or any of the above things in any part of the world and either as principal, agent, contractor or trustee or otherwise and either alone or in conjunction with others.

31. To enter into Contracts To negotiate and/or enter into agreement and contract with individuals, companies, corporations, foreign or Indian, for obtaining or providing technical, financial or any other assistance for carrying on all or any of the objects of the Company and also for the purpose of activating, research, development of projects on the basis of know-how and/or financial participation and for technical collaboration, and to acquire or provide necessary formulate and patent rights for furthering the objects of the company.

32. To contribute towards promotion of trade and industry To aid pecuniary or otherwise, any association, body or movement having for its object the solution, settlement or surmounting of industrial or labour problems or trouble or the promotion of industry or trade.

33. To take all necessary steps for winding up of the company

Subject to the provisions of Companies Act, 2013 or any amendment or re-enactment thereof in the event of winding up to distribute among the members in specie any property of the Company or any proceeds of sale on disposal of any property in accordance with the provisions of the Act.

34. To do and perform all coincidental and ancillary acts for the attainment of its objects

To do all such other things as may be deemed

incidental or conducive to the attainment of the above Objects or any of them and to carry on any business which may seem to the Company capable of being conveniently carried in connection with any of the Company's Objects or calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights.

35. To take up studies and research experiments.

To establish, provide, maintain and conduct or otherwise subsidies research laboratories and experimental workshops for scientific, technical or researches, experiments and to undertake and carry on directly or in collaboration with other agencies scientific and technical research experiments and tests of all kinds and to process, improve and invent new products and their techniques of manufacture and to promote, encourage, reward in every manner studies and research, scientific and technical investigations and inventions of any kind that may be considered likely to assist, encourage and promote rapid advances in technology, economies, import substitution or any business which the Company is authorized to carry on.

36. To evolve scheme for restructuring or arrangement.

Subject to provisions of the Companies Act,2013, to evolve scheme for restructuring or arrangement, to amalgamate or merge or to enter into partnership or into any consortium or arrangement for sharing of profits, union of interests, co-operation, joint venture with any Person or Persons, partnership firm/firms, or company or companies carrying on or engaged in any operation capable of being conducted so conveniently in co-operation with the business of the Company or to benefit the

Company or to the activities for which the Company has been established.

37. To apply for purchase, or otherwise acquire.

To apply for purchase, or otherwise acquire any trademarks, patents, brevets, inventions, licenses, concessions and the like, conferring any exclusive or nonexclusive or limited rights to use, or any secret or other information as to any invention which may be capable of being used for any of the purposes of the Company, or the acquisition of which may benefit the Company and to use, exercise, develop or grant licenses in respect of or otherwise turn to account the property, rights or information so acquired.

38. To sell, dispose or hive off an undertaking of the Company

To sell, dispose or hive off an undertaking of the Company or any part thereof for such consideration as the Company may think fit and in particular for shares, debentures or securities of any other association, corporation or company.

39. To sell, improve, manage, develop

To sell, improve, manage, develop, exchange, loan, lease or let, under-lease, sub - let, mortgage, dispose of, deal with in any manner, turn to account or otherwise deal with any rights or property of the Company.

40. To outsource parts of its activities

To outsource parts of its activities to achieve higher efficiencies and throughputs in the achievement of its business goals.

4 The liability of the member(s) is limited, and this liability is limited to the amount unpaid if any, on the shares held by them.

5 Every member of the company undertakes to contribute:

(i) to the assets of the company in the event of its being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the company or of such debts and liabilities as may have been contracted before he ceases to be a member; and

(ii) to the costs, charges and expenses of winding up (and for the adjustment of the rights of the contributories among themselves), such amount as may be required, not exceeding * [ ] rupees.

(iii) The share capital of the company is [100000] rupees, divided into

10000	Equity Share	Shares of	10	Rupees each	

6

☑ We, the several persons, whose names and address are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association, and we respectively agree to take the number of shares in the capital of the company set against our respective names:

☐ I, whose name and address is given below, am desirous of forming a company in pursuance of this memorandum of association and agree to take all the shares in the capital of the company:

☐ We, the several persons, whose names and addresses are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association:

Subscriber Details					
S. No.	***Name, Address, Description and Occupation**	**DIN / PAN / Passport number**	**No. of shares taken**	**DSC**	**Dated**
1	Sh. Neeraj Singh S/o Sh. Dayashankar Singh R/o Flat C-703, The Crescent Apartment, Plot F-2, Sector-50, Noida, Gautam Budh Nagar, UP-201301 (As a Nominee of PFC Consulting Limited) Occupation:- Service	0*6*3*9*	100 Equity,0 Preference		03/12/2024
2	Sh. Sanjay Kumar Nayak S/o Sh. Jagabandhu Nayak R/o K 713, Jalvayu Tower, Sector 56 Gurgaon-Haryana 122011 (As a Nominee of PFC Consulting Limited) Occupation:- Service	0*1*7*9*	100 Equity,0 Preference		03/12/2024
3	M/s PFC Consulting Limited having its registered office at Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi-110001 Through Sh. Sachin Arora S/o Sh. Prem Lal Arora R/o F5 1903, Supertech Eco Village 1, Near Park, Greater Noida, 201301 (as authorized representative of PFC Consulting Limited)	A*G*A*4*4*	9400 Equity,0 Preference		03/12/2024
4	Sh. Sachin Shukla S/o Sh. Raj Kumar Shukla R/o 4th Floor, House No. 6, H1 Block, Good Earth City Centre, south City 2, Gurgaon - 122018 (As a Nominee of PFC Consulting Limited) Occupation:- Service	0*6*3*6*	100 Equity,0 Preference		03/12/2024
5	Sh. Rakesh Mohan S/o Sh. Lakshman Singh R/o Flat No-364, Sunehari Bagh Appartment, Sector-13 Rohini New Delhi Delhi 110085 NA India (As a Nominee of PFC Consulting Limited) Occupation:- Service	0*6*4*2*	100 Equity,0 Preference		03/12/2024
6	Sh. Rishab Jain S/o Naveen Jain R/o T-11, first floor, Green Park Extension, New Delhi, 110016 (As a Nominee of PFC Consulting Limited) Occupation:- Service	0*4*5*6*	100 Equity,0 Preference		03/12/2024

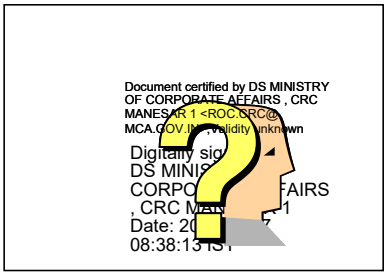
7	Sh. Naveen Kumar S/o Jagdish Chander R/o F-024, Assotech Windsor Court, Sector 78, Noida Gautam Buddha Nagar, Uttar Pradesh, 201301 (As a nominee of PFC Consulting Limited) Occupation - Service	1*4*7*5*	100 Equity,0 Preference		03/12/2024
Total shares taken			10000 Equity,0 Preference		

Signed before me

Membership type of the witness *(ACA/FCA/ACS/FCS/ACMA/FCMA)*	***Name of the witness**	***Address, Description and Occupation**	**DIN / PAN / Passport number / Membership number**	**DSC**	**Dated**
FCS	Naresh Kumar Sinha	121, Vinayak Apartment, C58/19, Sector-62, Noida-201307, UP	1*0*		03/12/2024

7 Shri / Smt _____ _____ Of _____ resident of _____ aged _____ years shall be the nominee in the event of death of the sole member.

For office use only:

eForm Service request number(SRN)	AB2054969
eForm filing date(DD/MM/YYYY)	06/12/2024
Name of the authorizing officer	CHARAN SINGH
This e-Form is hereby approved	
This e-Form is hereby rejected	
Date of Signing (DD/MM/YYYY)	07/12/2024

Form No. INC-34

e-AOA (e-Articles of Association)

[Pursuant to Section 5 of the Companies Act, 2013 and rules made thereunder read with Schedule I]

सत्यमेव जयते

Form language

(•) English ( ) Hindi

Refer instruction kit for filing the form

*All fields marked in * are mandatory*

Table applicable to company as notified under schedule I of the Companies Act, 2013 *(F, G, H)*	F
Table F / G / H (basis on the selection of above-mentioned field) as notified under schedule I of the companies Act, 2013 is applicable to *(F – a company limited by shares* *G– a company limited by guarantee and having a share capital* *H – a company limited by guarantee and not having share capital)*	F - A COMPANY LIMITED BY SHARES
The name of the company is	NER EXPANSION TRANSMISSION LIMITED

Check if not applicable	Check if altered	Article No.	Description
			Interpretation
☐	☑		• INTERPRETATION1.Interpretation clause In the interpretation of these Articles unless repugnant tothe subject or context- Act The Act means The Companies Act 2013 as amended fromtime to time and includes any statutory modification or re-enactment thereoffor the time being in force.Articles of the Company Articles means the articles ofassociation of a company as originally framed or as altered from time to timeor applied in pursuance of any previous company law or of this Act.Auditor(s) Auditor(s) mean and include persons appointedas such for the time being by the Comptroller Auditor General of India.Board or Board of Directors Board or Board ofDirectors in relation to a company means the collective body of thedirectors of the company.Books of Account Books of account includes recordsmaintained in respect of(i) all sums of money received and expended by a company andmatters in relation to which the receipts and expenditure take place(ii) all sales and purchases of goods and services by thecompany(iii) the assets and liabilities of the company and(iv) the items of cost as may be prescribed under section148 in the case of a company which belongs to any class of companies specifiedunder that section.Capital Capital means the share capital for the timebeing raised or authorized to be raised for the purpose of the Company.Company Shall means NER EXPANSION TRANSMISSION LIMITED Debenture Debenture includes debenture stock bonds orany other instrument of a company evidencing a debt whether constituting acharge on the assets of the company or not.Director(s) Director means a director appointed to theBoard of a company under Section 2(34) of the Act.Dividend Dividend includes any interim dividend.Financial Institution Financial Institution includes ascheduled bank and any other financial institution defined or notified underthe Reserve Bank of India Act 1934.Gender Words importing the masculine gender also includethe feminine gender. Generation

	I	Company GenerationCompany shall mean any entity engaged in the business of generation ofelectricity.In Writing and Written In writing and Writteninclude printing lithography and other modes of representing or reproducingwords in a visible form. key managerial personnel key managerial personnel inrelation to a company means(i) the Chief Executive Officer or the managing director orthe manager(ii) the company secretary(iii) the whole-time director(iv) the Chief Financial Officer and(v) such other officer as may be prescribed.Meeting or General MeetingMeeting means Annual General Meeting or ExtraordinaryGeneral Meeting of Members duly called and constituted including an adjournedmeeting. In the context of Board of Directors it shall mean the meeting of theDirectors including an adjourned meeting.Member Member in relation to a company means(i) the subscriber to the memorandum of the company whoshall be deemed to have agreed to become member of the company and on itsregistration shall be entered as member in its register of members(ii) every other person who agrees in writing to become amember of the company and whose name is entered in the register of members ofthe company(iii) every person holding shares of the company and whosename is entered as a beneficial owner in the records of a depository.Month Month means a calendar month.Office Office means the Registered Office of the companyfor the time being.paid-up share capital or share capital paid-up meanssuch aggregate amount of money credited as paid-up as is equivalent to theamount received as paid up in respect of shares issued and also includes anyamount credited as paid-up in respect of shares of the company but does notinclude any other amount received in respect of such shares by whatever namecalledPersons Persons include Corporations and firms as wellas individuals.PowerTransmission Utility Power Transmission Utilityshall mean any entity engaged in the business of power transmission.Proxy Proxy includes Attorney duly constituted under avalid Power of Attorney.Project-In-Charge A Director of the Company designated asProject In-charge for administrating day to day activities of the Company.Public Company Public Company means a companywhicha. is not a private company and b. has a minimum paid-up share capital as may be prescribedProvided that a company which is a subsidiary of a companynot being a private company shall be deemed to be public company for thepurposes of this Act even where such subsidiary company continues to be aprivate company in its articles Registrar Registrar means a Registrar an AdditionalRegistrar a Joint Registrar a Deputy Registrar or an Assistant Registrarhaving the duty of registering companies and discharging various functionsunder this Act.Register of Members Register of Members means theRegister of Members to be kept pursuant to the Act.Related Party Section 2(76) of the Act describes relatedparty with reference to a company which means(i) a director or his relative(ii) a key managerial personnel or his relative(iii) a firm in which a director manager or his relativeis a partner(iv) a private company in which a director or manager is amember or director(v) a public company in which a director or manager is adirector or holds along with his relatives more than two per cent. of itspaid-up share capital(vi) any body corporate whose Board of

		Directors managingdirector or manager is accustomed to act in accordance with the advicedirections or instructions of a director or manager(vii) any person on whose advice directions or instructionsa director or manager is accustomed to actProvided that nothing in sub-clauses (vi) and (vii) shallapply to the advice directions or instructions given in a professionalcapacity(viii) any company which is(A) a holding subsidiary or an associate company of such companyor(B) a subsidiary of a holding company to which it is also asubsidiary(ix) such other person as may be prescribed.Seal Means the common seal of the company for the timebeing.Securities Exchange Board Securities and Exchange Boardmeans the Securities and Exchange Board of India established under section 3 ofthe Securities Exchange Board of India Act 1992.Securities Securities means the securities as defined inclause (h) of section 2 of the Securities Contracts (Regulation) Act 1956.Share Means a share in the share capital of a company andincludes stock.Share Capital Share Capital means the total equity sharecapital of the Company agreed to be issued and called the Authorized Capitalof the Company as mentioned in the Memorandum of Association of the Company.Singular Number Words importing the singular numberinclude where the context admits the plural number and vice-versa.State Electricity Board State Electricity Board meansthe Electricity Board or Vidyut Board or any other body by whatever namecalled set up by the State Governments under Electricity (Supply) Act 1948 asamended which expression shall include its successors administratorsauthorized representatives and permitted assigns.Transmission Company Transmission Company shall mean anyentity engaged in the business of transmission of electricity.Year or Financial Year Meaning of Words Year means English calendar year andFinancial Year shall have the meaning assigned thereto by Section 2(41) ofthe Act.Unless the context otherwise requires words or expressionscontained in these regulations shall bear the same meaning as in the Act or anystatutory modification thereof in force at the date at which these regulationsbecome binding on the company.Marginal Notes Marginal Notes are for ease of reference onlyand shall not affect the construction and interpretation of these Articles.Other Expressions Other words or expressions contained inthese Articles shall bear the same meaning as are assigned to them in the Actor any statutory modifications thereof.2. Table F not to Apply The regulations contained in TableF in the First Schedule to the Companies Act 2013 shall not apply except tothe extent that the same are repeated or contained or expressly made applicableby these Articles or by the Act but the regulations for the management of theCompany and for the observance of the members thereof and their representativesshall subject to any exercise of the statutory powers of the Company withreference to the repeal or alteration of or addition to its regulations bySpecial Resolution as prescribed by the said Companies Act 2013 be such ascontained in these Articles.BUSINESS PURPOSE 3. Business Purpose The Company shall be engaged in thebusiness of Transmission of Electricity including construction operationmaintenance and other related activities.

			Share Capital and Variation of rights
☐	☑	II 1	• 4. Share Capital Increase of capital by the Company andhow carried into effect The Authorized Share Capital of the Company is as mentionedin clause V of the Memorandum of Association of the Company. The Company inGeneral Meeting may from time to time by resolution increase its authorizedshare capital by creation of new shares such increase to be of such aggregateamount and to be divided into shares of such respective amounts as may bedetermined by the General Meeting subject to the provisions of the Act.
☐	☑	2	• 5. New Capital same as existing capitalAny capital raised by the creation of new shares shall be considered as part of the original capital and shall be subject to the same provisions herein contained with reference to the payment of calls and installments forfeiture lien surrender transfer and transmission voting and otherwise.
☐	☑	3	• 6. Reduction of CapitalThe Company may from time to time by special resolution reduce its capital which may be paid off either with or without extinguishing or reducing liability on shares which is in excess of the wants of the company or canceling such share capital which has been lost or is unrepresented by available assets.
☐	☑	4	• 7. Subdivision and consolidation of sharesThe Company in general meeting may from time to time sub-divide or consolidate its shares or any of them and exercise any of the other powers conferred by Section 61 of the Act and shall file with the Registrar such notice of exercise of any such powers as may be required by the Act.
☐	☑	5	• 8. Register and Index of MembersBeneficial ownersThe Company shall cause to be kept a Register and also an Index of Members and Debenture-holders in accordance with Sections 88 of the Act. Further as permissible under Section 88 of the Act the register and Index of beneficial owners maintained by a Depository shall be deemed to be the corresponding Register and Index for the purpose of this Act.
☐	☑	6	• 9. Foreign Register of membersThe Company shall be entitled to keep in any country outside India a Foreign Register of members resident in that country subject to compliance with the provisions of Section 88 of the Act.
☐	☑	7	• 10. Shares to be numbered distinctivelyThe shares in the capital held otherwise than in the depository mode shall be numbered progressively in sequence and given distinctive number Except and in the manner herein mentioned no share shall be forfeited or surrendered and shall continue to bear the number which it had originally borne.
☐	☑		• 11. Share Application MoneyThe Company shall ensure that the share application money paid is held by it in an account with a Scheduled Commercial Bank (in the name of the Company)12. Further Issue of Capital(a)Where at any time the Company wishes to raise its subscribed share capital by issue of further shares it shall first offer such shares to its existing shareholders in proportion to their existing shareholdings on the date of such issue.

		Such offer to the existing shareholders shall be in accordance with the provisions of Section 62 of the Act. (b) The Company shall subject to applicable provisions of the Act and Articles of Association make uniform calls from time to time upon all the Shareholders in respect of the moneys remaining unpaid on the issued share capital within 30 days or such time as the Board may deem fit and appropriate.13. Shares under control of DirectorsSubject to the provisions of these Articles and of the Act the shares including any shares forming part of any increased capital of the Company shall be under the control of the Directors who may allot or otherwise dispose off the shares to such persons in such proportion on such terms and conditions and at such times as the Directors may think fit and subject to the sanction of the Company in General Meeting subject to the provisions of Sections 52 and section 54 of the Act at a premium or par and such option being exercisable for such time and for such consideration as the Directors think fit. The Board shall cause to be filed the returns as to allotment provided for in Section 39(4) of the Act.14. Issue of shares for consideration other than cashSubject to these Articles and the provisions of the Act if any the Board may issue and allot shares in the capital of the Company as payment or in consideration or as part payment or in part consideration of the purchase or acquisition of any property or for services rendered to the Company in the conduct of its business and shares which may be so issued or allotted shall be credited or deemed to be credited as fully paid up or partly paid up shares.15. Power of Company to Issue SharesThe Company in General Meeting may subject to the provisions of Section 42 62 of the Act provide that any shares (whether forming part of the original capital or of any increased capital of the Company) shall be offered to such persons (whether a Member or not) in such proportion and on such terms and conditions of the Act) at a premium or at par or at a discount as such General Meeting shall determine and with full power to give any person (whether a Member or not) the option to call for or be allotted shares of any class of the Company either subject to compliance with the provisions of Sections 52 and 54 of the Act at a premium or at par or at discount such option being exercisable at such times and for such consideration as may be directed by such General Meeting or the Company in General Meeting may make any other provisions whatsoever for the issue allotment or disposal of any shares.16. Acceptance of sharesAny person applying for shares in the Company followed by an allotment of any shares and subscribers to the Memorandum shall be a shareholder within the meaning of these Articles and every person whose name is on the Register of Members shall for the purposes of these Articles be a Member of the Company.17. Deposit call to be a debt payable ImmediatelyThe Money (if any) which the Board shall on the application for allotment of any shares being made by them require or direct to be paid by way of deposit call or otherwise in respect of any shares allotted by them shall immediately on the insertion of the name of the allottee in the Register of Members as the name of the holder of such shares become a debt due to and recoverable by the Company from the allottee thereof and shall be paid by him accordingly.18. Liability of MembersEvery Member or his

	8	heirs executors or administrators shall pay to the Company the portion of the capital and premium if any represented by or payable on his share or shares which may for the time being remain unpaid thereon in such amounts at such time or times and in such manner as the Board shall from time to time in accordance with the Companys regulations require or fix for the payment thereof.19. Share CertificatesA certificate issued under the common seal of the companyspecifying the shares held by any person shall be prima facie evidence of thetitle of the person to such shares.(a) Every Member or allottee of shares who is holding suchshares in the physical form shall be entitled without payment to receivecertificate specifying the name of the person in whose favour it is issued theshares to which it relates and the amount paid-up thereof. Such certificatesshall be issued only in pursuance of a resolution passed by the Board and onsurrender to the Company of the letter of allotment or the fractional couponsof requisite value save in case of issues against letters of acceptance or ofrenunciation or in cases of issue of bonus shares. Every such certificate shallbe issued under the seal of the Company which shall be affixed in the presenceof two Directors and the Secretary or some other person appointed by the Boardfor the purpose and the two directors and the Secretary or other persons asauthorized by the Board shall sign the share certificate. Provided if the composition of the Boardpermits of it at least one of the aforesaid two directors shall be a personother than a Managing or a Whole Time Director. Particulars of every sharecertificate issued shall be entered in the Register of Members against the nameof the person to whom it has been issued indicating the date of issue. Forissue of any further duplicate certificate the Board shall be entitled tocharge such amount which shall not exceed fifty Rupees per Certificate.(b) A Director may sign a share certificate by affixing hissignature thereon by means of any machine equipment or other mechanical meanssuch as engraving in metal or lithography but not by means of a rubber stamp.PROVIDED that the Director shall be personally responsible for the safe custodyof such machine equipment or other material used for the purpose.20. Renewal of Share Certificates(a) No certificate of any share or shares shall be issuedeither in exchange for those which are sub-divided or consolidated or inreplacement of those which are defaced mutilated torn or old decrepitdestroyed or where the pages on the reverse for recording transfers have beenduly utilized unless the certificate in lieu of which it is issued issurrendered to the Company and for issuing such share certificate the companymay charge such fee as the Board thinks fit not exceeding twenty rupees per certificate.(b) When a new share certificate has been issued inpursuance of clause (a) of this Article it shall state on the face of it andagainst the stub or counterfoil to the effect that it is Issued in lieu ofshare certificate No sub-dividedreplacedon consolidation. (c) If a share certificate is lost or destroyed a newcertificate in lieu thereof shall be issued only with the prior consent of theBoard and on such reasonable terms such as furnishing supporting evidence andindemnity and the payment ofout-of-pocket expenses incurred by the Company in investigating evidenceproduced as the

		Board thinks fit.(d) When a new share certificate has been issued inpursuance of clause (c) of this Article it shall state on the face of it andagainst the stub or counterfoil to the effect that it is duplicate issued inlieu of share certificate No. and the word duplicate shall bestamped or printed prominently on the face of the share certificate. (e) Where a new share certificate has been issued inpursuance of clause (a) and or clause (c) of this Article particulars ofevery such share certificate shall be entered in a Register of Renewed andDuplicate Share Certificates indicating against the name(s) of the person(s) towhom the certificate is issued the number and date of issue of the sharecertificate in lieu of which the new certificate is issued and the necessarychanges indicated in the Register of Members by suitable cross reference in theRemarks column.(f) All blank forms to be used for issue of sharecertificates shall be printed and the printing shall be done only on theauthority of a resolution of the Board and the blank forms shall beconsecutively machine-numbered and the forms and the blocks engravingsfacsimiles relating to the printing of such forms shall be kept in the custodyof the Secretary or of such other person as the Board may appoint for thepurpose and the Secretary or the other person aforesaid shall be responsiblefor rendering an account of these forms to the Board.(g) The Committee of the Board Company Secretary of theCompany or a Director specifically authorized by the Board for such purposeshall be responsible for the maintenance preservation and safe custody of allbooks and documents relating to the issue of share certificates including theblank forms of share certificates referred to in clause (f).(h) All books referred to in clause (g) shall be preservedin good order for not less than thirty years and in disputed cases shall bepreserved permanently. 21. Joint holders(a) Where two or more persons are registered as the holdersof any share they shall be treated as a single shareholder and shall be deemedto hold the same as joint holders with benefits of survivorship subject to thefollowing and other provisions contained in these Articles.(b) The Company shall be entitled to decline to registermore than four persons as the holders of any share.(c) The Joint holders of any share shall be liableseverally as well as jointly for and in respect of all calls and otherpayments which ought to be made in respect of such shares.(d) On the death of any such joint holder the survivor orsurvivors shall be the only person or persons recognized by the Company ashaving any title to the share but the Directors may require such evidence ofdeath as they may deem fit and nothing herein contained shall be taken torelease the estate of the deceased joint holder from any liability on sharesheld by him jointly with any other person.(e) Delivery of share certificate to any one of such jointholders shall be deemed to be delivery to all of them and any one of such jointholders may give effectual discharge and receipts for any dividends or othermoneys payable in respect of such shares andor in respect of any otherobligation of the Company towards them.(f) Only the person whose name stands in the Register ofMembers as the first of the joint holders of any shares shall be entitled todelivery of the certificate relating to such share or to receive notices fromthe Company and any notice given to such person shall be deemed proper

			noticeto all joint holders.(g) Any one of two or more joint holders may vote at anymeeting either personally or by proxy in respect of such share as if he weresolely entitled thereto and if more than one of such joint holders be presentat any meeting personally or by proxy the holder whose name stands first orhigher (as the case may be) on the Register of Members in respect of such shareshall alone be entitled to vote in respect thereof.PROVIDED always that a member present at any meetingpersonally shall be entitled to vote in preference to a person present by proxyalthough the name of such person present by proxy stands first on the Registerof Members in respect of such shares. 22. Terms and Conditions of Preference Shares Subject to the provisions of section 55 anypreference shares may with the sanction of an ordinary resolution be issuedon the terms that they are to be redeemed on such terms and in such manner asthe company before the issue of the shares may by special resolutiondetermine.
			Lien
☐	☑	9	• 23. Company to have lien on sharesThe Company shall have a first and paramount lien upon allshares (other than fully paid up shares) registered in the name of each member(whether solely or jointly with others) and upon the sale proceeds thereof forall moneys (whether presently payable or not) called or payable at a fixed timein respect of all such shares (not being fully paid up) for all moneyspresently payable by him or his estate to the Company. Any such lien shallextend to all dividends payable and bonuses declared from time to time declaredin respect of such shares.
☐	☑	10	• 24. Enforcing lien by saleFor the purpose of enforcing such lien the Board may sell the shares subject thereto in such manner as they shall think fit and for that purpose it may cause to be issued a duplicate certificate in respect of such shares and may authorize one of their Directors to execute a transfer thereof on behalf of and in the name of the Board. No sale shall be made until notice period for making call as aforesaid have expired and until notice in writing of the intention to sell shall have been made known to the shareholder for default in payment and default has been made by him in the payment of money called in respect of such shares for thirty days after the date of such notice. Upon issue of a duplicate certificate or certificates in lieu of the original share the certificate or certificates originally issued shall stand cancelled and become null and void and the same shall have no effect.
☐	☑	11	• 25. Application of proceeds of saleThe net proceeds of any such sale shall be received by the Company and applied in or towards payment of such part of the amount as is presently payable and the residue if any shall (subject to a like lien for sums not presently payable as existed upon the shares before sale) be paid to the person entitled to the shares at the date of the sale.
☐	☑	12	•
			Calls on shares

☐	☑	13	• 26. Directors may make callsThe Board may from time to time subject to the terms onwhich any shares may have been issued and subject to the conditions ofallotment by a resolution passed at a meeting of the Board (and not byresolution by circulation) make such call as it thinks fit upon the Members inrespect of all moneys unpaid on the shares held by them respectively and eachmember shall pay the amount of every call so made on him to the person orpersons and at the times and places appointed by the board. A call may be madepayable by installments.
☐	☑	14	• 27. Notice of callsNot less than thirty days notice in writing of any call shall be given by the Company specifying the time and place of payment and the person or persons to whom such call shall be paid.
☐	☑	15	• 28. When call madeA call shall be deemed to have been made at the time when the resolution of the Board authorizing such call was passed at a meeting of the Board and demand notice is issued.
☐	☑	16	• 29. Calls may be revoked or postponedA call may be revoked or postponed at the discretion of the Board.
☐	☑	17	• 30. Directors may extend time The Board may from time to time at its discretion extend the time fixed for the payment of any call and may extend such time as to all or any of the Members for reasons which the Board may consider satisfactory but no Member shall be entitled to such extension save as a matter of grace.
☐	☑	18	• 31. Calls to carry interestIf any Member fails to pay any call due from him on the day appointed for payment thereof or any such extension thereof as aforesaid he shall be liable to pay interest on the same from the day appointed for the payment thereof to the time of actual payment at rate not exceeding 10 per cent per annum as maybe decided by the Board but the Board may in its absolute discretion and in special circumstances waive or reduce the levy of interest as deemed appropriate.32. Sums deemed to be callAny sum which by the terms of issue of a share becomespayable on allotment or at any fixed date whether on account of the nominalvalue of the share or by way of premium shall for the purposes of theseArticles be deemed to be a call duly made and payable on the date on which bythe terms of issue the same becomes payable and in case of non-payment all therelevant provisions of these Articles as to payment of interest and expensesforfeiture or otherwise shall apply as if such sum had become payable by virtueof a call duly made and notified.33. Partial payment not to preclude ForfeitureNeither the receipt by the Company of a portion of any moneywhich shall from time to time be due from any Member to the Company in respectof his shares either by way of principal or interest nor any indulgencegranted by the Company in respect of the payment of any such money shallpreclude the Company from thereafter proceeding to enforce a forfeiture of suchshares as hereinafter provided.34. Payment in anticipation of calls may carry interestThe Board may if it thinks fit agree to and inanticipation receive from any Member willing to advance the same all of callsmoney or any part of the amounts of his respective shares beyond the sumsactually called up and upon the moneys so paid

			in advance or upon so muchthereof from time to time and at any time thereafter as exceeds the amount ofthe calls then made upon and due in respect of the shares on account of whichsuch advances are made the Board may pay or allow interest at such rate asthe Member paying the sum in advance and the Board agree upon. The Board mayagree to repay at any time any amount so advanced or may at any time repay thesame upon giving to the Member three months notice in writing.PROVIDED that moneys paid in advance of calls on any sharesmay carry interest but shall not confer a right to dividend or to participatein profits. (b) No Member paying any such sum in advance shall beentitled to voting rights in respect of the moneys so paid by him until thesame would but for such payment become presently payable.
			Transfer of shares
☐	☑	19	• 35. Register of TransfersThe Company shall maintain a Register of Transfers andtherein shall be fairly and distinctively enter the particulars of everytransfer or transmission of any share in the physical form.
☐	☑	20	• 36. Form of transferThe instrument of transfer shall be in writing and in such form as prescribed under the Act. All the provisions of Section 56 of the Act shall be duly complied with in respect of all transfers and of the registration thereof. The Company shall not charge any fee for registration of a transfer of shares or debentures.
☐	☑	21	• 37. Instrument of Transfer to be completed and presented to the CompanyThe Instrument of Transfer duly stamped and executed by the transferor and the transferee shall be delivered to the Company in accordance with the provisions of the Act. The instrument of transfer shall be accompanied by the Share Certificate or such evidences the Board may require to prove the title of transferor and his right to transfer the shares and every registered Instrument of Transfer shall remain in the custody of the Company until destroyed by order of the Board. Any instrument of transfer which the Directors may decline to register shall be returned to the person depositing the same.
☐	☑	22	• 38. Transferor deemed to be holderThe transferor shall be deemed to be the holder of such shares until the name of the transferee shall have entered in the Register of Members in respect thereof. Before the registration of a transfer the certificate or certificates of the shares must be delivered to the Company along with Transfer Deed.39. No transfer to insolvent etc.No transfer shall be made to a person of unsound mind or to an insolvent.40. Closure of Register of MembersDebenture holdersThe Directors shall have power on giving not less than seven days previous notice as required by Section 91 of the Act to close the Register of Transfer Register of Members or Register of Debenture holders or the register of other security holders of the Company for any period or periods not exceeding in the aggregate forty-five days in each year (but not exceeding thirty days at any one time) as they may determine.41. Nomination by shareholderEvery share-holder or debenture holder may at any time nominate in the prescribed manner a person to whom his shares or debenture shall vest in the event of his death as provided in Section 72 of the Act.42. Title

			to shares of deceased holderIn the event there is no nomination the executors oradministrators of a deceased Member or the holder of a Succession Certificatein respect of the shares of a deceased Member (not being one of two or morejoint holders) shall be the only persons whom the Company will be bound torecognize as having any title to the shares registered in the name of suchMember and the Company shall not be bound to recognize such executors oradministrators or holders unless such executors administrators or holders shallhave first obtained probate or Letters of Administration or SuccessionCertificate as the case may be from a duly constituted Court in India.PROVIDED that the Directors may at their absolutediscretion dispense with production of Probate Letters of Administration orSuccession Certificate upon such terms as to indemnity or otherwise as theythink fit and may enter the name of the person who claims to be absolutelyentitled to the shares standing in the name of a deceased Member as a Member.
			Transmission of shares
☐	☑	23	• 43. Transmission of SharesSubject to the provisions of the Act any person becomingentitled to any share in consequence of the death lunacy or insolvency of anyMember or by any lawful means other than by a transfer in accordance with theseArticles may with the consent of the Directors (which they shall be under noobligation to give) and upon producing such evidence that he sustains thecharacter in respect of which he proposes to act under this. Article or of histitle as the Directors may require and upon such indemnity as the Directorsmay require either be registered as a Member in respect of such shares orelect to have some person nominated by him and approved by the Directorsregistered as a Member in respect of such shares. PROVIDED that if such personsshall elect to have his nominee registered he shall testify his election byexecuting in favor of his nominee an instrument of transfer in accordance withthese Articles and until he does so he shall not be freed from any liabilityin respect of such shares.
☐	☑	24	• 44 Right of Board to decline or suspend registration (i) Any person becoming entitled to a share in consequence of the death or insolvency of a member may upon such evidence being produced as may from time to time properly be required by the Board and subject as hereinafter provided elect either --(a) to be registered himself as holder of the share or(b) to make such transfer of the share as the deceased or insolvent member could have made.(ii) The Board shall in either case have the same right to decline or suspend registration as it would have had if the deceased or insolvent member had transferred the share before his death or insolvency.
☐	☑		• 45. The Company not liable for disregard of notice prohibiting registration of transferThe Company shall incur no liability or responsibility whatever in consequence of its registering or giving effect to any transfer of shares made or purported to be made by any apparent legal owner thereof (as shown or appearing in register of Members) to the prejudice of persons having

		25	or claiming any equitable right title or interest to or in the same shares notwithstanding that the Company may have had notice of such equitable right title or interest or notice prohibiting registration of such transfer and may have entered such notice or referred to it in any book or attended or given effect to any notice which may have been given to it of any equitable right title or interest or be under any liability whatsoever for refusing or neglecting so to do though it may have been entered or referred to in some book of the Company but the Company shall nevertheless be at liberty to regard and attend to any such notice and give effect thereto if the Directors shall so think fit.46. Rights of successorsA person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would have been entitled if he were the registered holder of the shares except that he shall not before being registered as a Member in respect of the shares be entitled to exercise any right conferred by membership in relation to meetings of the Company. PROVIDED that the Directors shall at any time give notice requiring any such person to elect to be registered himself or to transfer the shares and if the notice is not complied within ninety days from the date of issue of the notice the Directors may thereafter withhold payment of all dividends bonuses or other moneys payable in respect of the shares until the requirements of the notice have been complied with.
☐	☑	26	•
☐	☑	27	•
			Forfeiture of shares
☐	☑	28	• 47. If money payable on shares not paid notice to be givento membersIf any Member fails to pay any call or installment of acall on or before the day appointed for the payment of the same or any such extensionthereof as aforesaid the Board may at any time thereafter during such timeas any part of the call or installment remains unpaid serve a notice on himrequiring him to pay the same together with any interest which may have accruedand all expenses that may have been incurred by the Company by reason of suchnon-payment.
☐	☑	29	• 48. Contents of NoticeThe notice shall name a further day (not being less than fourteen days from the date of the service of notice) and a place or places on and at which such call or installment and such interest thereon at such rate as the Directors shall determine from the day on which such call or installment ought to have been paid and expenses as aforesaid are to be paid. The notice shall also state that in the event of the non-payment on or before the day at or before the time and at the place appointed the shares in respect of which the call was made or installment is payable shall be liable to be forfeited.
☐	☑	30	• 49. In default of payment shares to be ForfeitedIf the requirement of any such notice as aforesaid are not complied with every or any share in respect of which such notice has been given may at any time thereafter but before payment of all calls or installments interest and expenses due in respect thereof be forfeited by a

			resolution of the Board to that effect. Such forfeiture shall include all dividends declared or any other moneys payable in respect of the aforesaid share and not actually paid before the forfeiture. In default of payment shares to be Forfeited
☐	☑	31	• 50. Notice of forfeiture to a MemberWhen any share shall have been so forfeited notice of the forfeiture shall be given to the Member in whose name it stood immediately prior to the forfeiture and an entry of the forfeiture with the date thereof shall forthwith be made in the Register of Members but no forfeiture shall be in any manner invalid by any omission or neglect to make any such entry as aforesaid in the Register.
☐	☑	32	• 51. Forfeited share to be property of the Company and may be sold etc. Any share so forfeited shall be deemed to be the property of the Company and may be sold re-allotted or otherwise disposed of either to the original holder thereof or to any person upon such terms and in such manner as the Board shall think fit.
☐	☑	33	• 52. Member still liable to pay calls owing at the time offorfeiture and interestAny members whose shares have been forfeited shallnotwithstanding the forfeiture be liable to pay and shall forthwith pay to theCompany on demand all calls installment interest and expenses owing upon orin respect of such shares at the time of the forfeiture together with interestaccrued thereon at the time of the forfeiture at such rate as the Board maydetermine and the Board may enforce the payment thereof if it thinks fit.
☐	☑	34	• 53. Effect of forfeitureThe forfeiture of a share shall involve extinction at the time of the forfeiture of all interest in and all claims and demands against the Company in respect of the share and all other rights incidental to the share except only such of those rights as by these Articles are expressly saved.54. Evidence of forfeitureA declaration in writing by Chairman or Managing Director of the Company or by any person duly authorised in this regard that certain shares in the Company have been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the shares and such declaration and the receipt of the Company for the consideration if any given for the shares on the sale or disposition thereof shall constitute a good title to such shares and the person to whom the shares are sold shall be registered as the holder of such shares and shall not be bound to see as to the application of the purchase money nor shall his title to such shares be affected by any irregularity or invalidity in the proceedings in reference to such forfeiture sale or disposition.55. Validity of sale under Articles of forfeited sharesUpon any sale after forfeiture or for enforcing a lien inpurported exercise of the powers herein before given the board may appointsome person to execute an instrument of transfer of the shares sold and causethe purchasers name to be entered in the Register of Members in respect of theshares sold and the purchaser shall not be bound to see the regularity of theproceedings or to the application of the purchase money and after his namehas been entered in the Register in respect of such shares the validity of thesale

			shall not be impeached by any person and the remedy of any personaggrieved by the sale shall be in damages only and against the Companyexclusively.56. Cancellation of Share Certificates in respect offorfeited sharesUpon any sale re-allotment or other disposal under theprovisions of the preceding Articles the certificate or certificatesoriginally issued in respect of the relative shares shall (unless the sameshall on demand by the Company have been (previously) surrendered to it by thedefaulting member) stand cancelled and become null and void and of no effectand the Directors shall be entitled to issue a duplicate certificate orcertificates in respect of the said shares to the person or persons entitled thereto.57. Power to annul forfeiture The Board may at any time before any share so forfeitedshall have been sold re-allotted or otherwise disposed of annul theforfeiture thereof upon such terms and conditions as it thinks fit.
			Alteration of capital
☐	☑	35	• 58. Alteration of Share Capital The company may from time to time by ordinary resolutionincrease the share capital by such sum to be divided into shares of suchamount as may be specified in the resolution.Subject to the provisions of section 61 the company may byordinary resolution the Company may from time to time--(a) consolidate and divide all or any of its share capitalinto shares of larger amount than its existing shares(b) convert all or any of its fully paid-up shares intostock and reconvert that stock into fully paid-up shares of any denomination(c) Sub-divide its shares or any of them into shares ofsmaller amount than is fixed by the memorandum so however that in thesub-division the proportion between the amount paid and the amount if anyunpaid on each reduced share shall be the same as it was in the case of theshare from which the reduced share is derived.(d) Cancel any shares which as the date of the passing ofthe resolution have not been taken or agreed to be taken by any person anddiminish the amount of its share capital by the amount of the shares socancelled.The resolution whereby any share is sub-divided maydetermine that as between the holders of the shares resulting from suchsub-division one or more of such shares shall have some preference or specialadvantage as regards dividend capital voting or otherwise over or as comparedwith the others or other subject to the provisions of the Act. Subject to the provisions of Sections 66 of the Act theBoard may accept from any member the surrender on such terms and conditions asshall be agreed of all or any of his shares.The company may by special resolution reduce in any mannerand with and subject to any incident authorised and consent required by law--(a) its share capital(b) any capital redemption reserve account or (c) any share premium account.
☐	☑	36	•
☐	☑	37	•
☐	☑	38	•
			Capitalisation of profits

☐	☑	39	• 59. Capitalization of Profits(1) Any General Meeting of the Company may resolve that anyamounts standing to the credit of the Free Reserve or Share Premium Account orthe Capital Redemption Reserve Account or any moneys investment or otherassets forming part of the undivided profits including profits or surplusmoneys arising from the realization and (when permitted by the law) from theappreciation in value of any capital assets of the Company standing to thecredit of the General Reserve or any other Reserve or Reserve Fund or any otherFund of the Company or in the hands of the Company and available for dividendbe capitalized-(a) by the issue and distribution of shares as fullypaid-up and to the extent permitted by the Act debentures debenture stockbonds or other obligations of the Company or(b) by crediting share of the Company which may have beenissued and are not fully paid-up with the whole or any part of the sumremaining unpaid thereonPROVIDED that any amounts standing to the credit of theShare Premium Account or the Capital Redemption Reserve Account shall beapplied only in crediting the payment of capital on shares to be issued toMembers as fully paid bonus shares (Further capitalization of reserve createdby the revaluation of assets are not to be used for issuance of Bonus Shares asper section 63 of the Act).(2) Such issue and distribution under sub-clause (1) (a) ofthis Article and payment to the credit of unpaid share capital under sub-clause(1) (b) of this Article shall be made among and in favour of the Members or anyclass of them or any of them entitled thereto and in accordance with theirrespective rights and interests and in proportion to the amount of capitalpaid-up on the shares held by them respectively in respect of which suchdistribution or payment shall be made on the footing that such Members becomeentitled thereto as capital.(3) The Directors shall give effect to any such resolutionand for the said purpose the Board may settle any difficulty which may arise inregard to distribution as it thinks expedient including in regard to fractionalentitlements and shall apply such profits General Reserve other Reserve orany other Fund or account as aforesaid as may be required for the purpose ofmaking payment in full on the shares or other obligations of the Company sodistributed under sub clause (1) (a) of this Article or (as the case may be)for the purpose of paying in whole or in part the amount remaining unpaid onthe shares which may have been issued and are not fully paid-up undersub-clause (1)(b) above.PROVIDED that no such distribution or payment shall be madeunless recommended by the Directors and if so recommended such distributionand payment shall be accepted by such Members as aforesaid in full satisfactionof their interest in the said capitalized fund.(4) For the purpose of giving effect to any such resolutionthe Directors may settle any difficulty which may arise in regard to thedistribution or payment as aforesaid as they think expedient and inparticular they may issue fractional certificates and may fix the value fordistribution of any specific asset and may determine that any cash payment bemade to any Members on the footing of the value so fixed and may vest any suchcash shares debentures stock bonds or other obligations in trustees uponsuch trusts for the persons entitled thereto as may seem expedient to thedirectors and generally may make arrangement for

			the acceptance allotment andsale of such shares debentures debentures stock bonds or other obligationsand fractional certificates or otherwise as they may think fit.(5) When deemed requisite a proper contract shall be filedin accordance with the Act and the Board may appoint any person to sign suchcontract on behalf of the Members entitled as aforesaid. Subject to the provisions of the Act and these Articles incases where some of the shares of the Company are fully paid and others arepartly paid such capitalization may be effected by the distribution of furthershares in respect of the fully paid shares and by crediting the partly paidshares with the whole or part of the unpaid liability thereon but so that asbetween the holders of the fully paid shares and the partly paid shares thesums so applied in the payment of such further shares and in the extinguishmentor diminution of the liability on the partly paid shares shall be applied prorata in proportion to the amount then already paid or credited as paid on theexisting fully paid and partly paid shares respectively.
☐	☑	40	•
			Buy-back of shares
☐	☑	41	• 60. Buy Back of Shares Notwithstanding anything contained in these articles butsubject to the provisions of sections 68 to 70 and any other applicableprovision of the Act or any other law for the time being in force the companymay purchase its own shares or other specified securities.
			General meetings
☐	☑	42	• 61. Annual General MeetingThe Company shall in each year hold a General Meeting as itsAnnual General Meeting in addition to any other meeting in that year. AllGeneral Meetings other than Annual General Meetings shall be calledExtraordinary General Meetings. If for any reason beyond the control of theBoard the general meeting (including an Annual General meeting) cannot be heldon the appointed day the Board shall have power to postpone the Generalmeeting of which a notice should be given to the members. Every member of theCompany shall be entitled to attend either in person or by proxy and theAuditor of the Company shall have the right to attend and to be heard at anyGeneral Meeting which he attends on any part of the business which concerns himas Auditor.
☐	☑		• 62. Extraordinary General MeetingThe Board may whenever it thinks fit call an Extraordinary General Meeting of the Company. The Board shall at the requisition in writing by a Member or Members holding in the aggregate not less than one-tenth of such of the paid-up capital of the company on that date and carries the right of voting in regard to the matter in respect of which the requisition has been made.63. Requisition of Members to state object of MeetingAny valid requisition so made by Members must state the object or objects of the meeting proposed to be called and must be signed by the requisitionists and deposited at the registered office of the company. PROVIDED that such requisition may consist of several documents in like form each signed by one or more requisitionists.64. On receipt of requisition Directors to call meeting andin default requisitionists

		43	may do so Upon the receipt of any such requisition the Board shallforthwith call an Extraordinary General Meeting and if they do not proceedwithin twenty-one days from the date of the requisition being deposited at theRegistered Office to cause a meeting to be called on a day not later thanforty-five days from the date of deposit of the requisition therequisitionists or such of their number as represent either a majority invalue of the paid-up share capital held by all of them or one-tenth of such ofthe paid-up share capital of the Company as is referred to in Section 100(2) ofthe Act whichever is less may themselves call the meeting but in eithercase any meeting so called shall be held within three months from the date ofthe deposit of the requisition as aforesaid.65. Meeting called by requisitionistsAny meeting called under the foregoing Articles by therequisitionists shall be called in the same manner as nearly as possible asthat in which meetings are to be called by the Board.66. Twenty-one days notice of meeting to be givenA general meeting of a Company may be called by giving notless than clear twenty-one days notice either in writing or through electronicmode in such a manner as may be prescribed Every notice of a meeting shallspecify the place date day and the hour of meeting and shall containstatement of the business to be transacted at such meeting. And The notice ofevery meeting shall be given to every member of the Company LegalRepresentative of any deceased member or the assignee of an insolvent member auditoror auditors of the Company and every director of the Company and all suchpersons as are under these Articles entitled to receive notice from the CompanyProvided that a general meeting may be called aftergiving shorter notice than that specified in this sub-section if consent inwriting or by electronic mode is accorded thereto (i) in the case of an annual general meeting by not lessthan ninty-fiveper cent. of the members entitled to vote thereat and(ii) in the case of any other general meeting by members ofthe company(a) holding if the company has a share capital majority innumberof members entitled to vote and who represent not less thanninety-fiveper cent. of such part of the paid-up share capital of thecompany as givesa right to vote at the meeting or(b) having if the company has no share capital not lessthanninty-five per cent. of the total voting power exercisableat that meeting Provided further that where any member of a company isentitled to vote only on some resolution or resolutions to be moved at ameeting and not on the others those members shall be taken into account forthe purposes of this sub-section in respect of the former resolution orresolutions and not in respect of the latter..
			Proceedings at general meetings
☐	☑		• 67. Business to be transacted at the General Meeting andnature thereof In the case of an AnnualGeneral Meeting all business to be transacted thereat shall be deemed specialother than (i) the consideration of the financial statements and the reports ofthe Board of Directors and Auditors (ii) the declaration of any dividend(iii) the appointment of Directors in place of those retiring (iv) theappointment of and the fixing of the remuneration of the Auditors and in thecase of any other meeting all business shall be deemed to be Special Businessand there shall be annexed to the notice of the

		44	Meeting an Explanatorystatement setting out all material facts concerning each such item of specialbusiness including in particular the nature of the concern or interestfinancial or otherwise if any therein of (i) every Director and the Manager(if any) (ii) every other key managerial personnel and relatives of thepersons mentioned in sub clauses (i) and (ii). Where any such item of SpecialBusiness relates to or affects any other company the extent of shareholdinginterest in such other company of every promoter director and the manager ifany and of every other key managerial personnel of the Company shall also beset out in the statement if the extent of such shareholding interest is notless than two per cent of the paid-up share capital of that other company andwhere any item of business consists of the according of approval to anydocuments by the meeting the time and place where the document can beinspected shall be specified in the statement aforesaid. The annual generalmeeting shall be called during business hours on any day that is not a NationalHoliday and it is to be held either at the registered office of the company orat some other place within the city in which the registered office of thecompany is situate.
☐	☑	45	• 68. Omission to give notice not to invalidate a resolutionpassed The accidental omission to give any such notice as aforesaidto any of the Members or the non-receipt thereof shall not invalidate anyresolution passed at any such meeting.
☐	☑	46	• 69. Meeting not to transact business not mentioned in noticeNo General Meeting Annual or Extraordinary shall be competent to enter upon discuss or transact any business which has not been mentioned in the notice or notices upon which it was convened.
☐	☑	47	• 70. Body Corporate deemed to be personally presentA body corporate being a Member shall be deemed to be personally present if it is represented in accordance with Section 113 of the Act.
☐	☑		• 71. Quorum at General MeetingNo business shall be transacted at any general meetingunless a quorum of members is present at the time when the meeting proceeds tobusiness.Save as otherwise provided herein the quorum for thegeneral meetings shall be as provided in section 103 of the Companies Act 201372. If quorum not present meeting to be dissolved oradjourned If at the expiration of half anhour from the time appointed for holding a general meeting of the Company aquorum is not present the meeting if convened by or upon the requisition ofMembers shall stand dissolved but in any other case the meeting shall standadjourned to the same day in the next week or if that day is a public holidayuntil the next succeeding day which is not a public holiday at the same timeand place or to such other day and at such other time place as the Boardmay determine and if at such adjourned meeting a quorum is not present at theexpiration of half an hour from the time appointed for holding the meeting theMembers present shall form the quorum and may transact the business for whichthe meeting was called.73. Chairman of General MeetingThe Chairman of the Board shall be entitled to take theChair at every General Meeting whether Annual or Extraordinary. If at anymeeting the Chairman is not

		48	present within fifteen minutes of the timeappointed for holding such meeting or he has informed that he shall be unableor unwilling to take the Chair then any one of directors with mutual consentshall so preside at the meeting. If no Director be present or if all theDirectors present decline to take the Chair then the Members present shall electone of the members to be the Chairman of the Meeting74. No Business whilst chair vacantNo business shall be discussed at any General Meeting exceptthe election of a Chairman whilst the Chair is vacant.75. Chairman with consent may adjourn meetingThe Chairman with the consent of the Members may adjournany meeting from time to time and from place to place within the city town orvillage in which the Registered Office of the Company is situated but nobusiness shall be transacted at any adjourned meeting other than the businessleft unfinished at the meeting from which the adjournment took place.Notwithstanding the provision as above in the event of disorder at a validlyconvened meeting the Chairman may adjourn the meeting provided that such anadjournment shall not be a longer period than the Chairman considers necessaryto being order at the meeting and Chairman communicates his decision to thosepresent in so far as it is possible.76. Questions at General Meeting how DecidedEvery question submitted to a meeting shall be decided inthe first instance unless a poll is demanded on a show of hands. Before or onthe declaration of the result of the voting on any resolution on a show ofhands a poll may be ordered to be taken by the Chairman of the meeting on hisown motion and shall be ordered to be taken by him on a demand made in thatbehalf by any member or members present in person or by proxy and holdingshares in the Company which confer a power to vote on the resolution not beingless than one-tenth of the total voting power in respect of the Resolution oron which an aggregate sum of not less than five lakh rupees has been paid up.The demand for a poll may be withdrawn at any time by the person or personsmaking the demand. Unless a poll is so demanded a declaration by the Chairmanthat a resolution has on show of hands been carried through unanimously or bya particular majority or lost and an entry to that effect in the Minutes Bookof the Company shall be conclusive evidence of the fact without proof of thenumber or proportion of the votes recorded in favour of or against theresolution.77. Chairmans Casting VoteIn the case of an equality of votes the Chairman shall havea casting vote in addition to the vote or votes to which he may be entitledotherwise.78. Poll to be taken if demandedIf a poll is demanded as aforesaid the same shall be takenat such time (not later than forty-eight hours from the time when the demandwas made) and place in the city or town in which the Registered office of theCompany is for the time being situated as the Chairman shall direct either atonce or after an interval or adjournment and the result of the poll shall bedeemed to be the resolution of the meeting.79. In which case poll taken without AdjournmentAny poll duly demanded on the election of the Chairman of ameeting or on any question of adjournment shall be taken at the meetingforthwith.80. Demand for poll not to prevent transaction of otherbusiness The demand for a poll except on the questions of theelection of the Chairman and of an

			adjournment shall not prevent thecontinuance of a meeting for the transaction of any business other than thequestion on which the poll has been demanded.81. Minutes of General Meetings(a) The Company shall cause minutes of the proceedings of every General Meeting or everyresolution passed by postal ballot to be kept by making within thirty days ofthe conclusion of every such meeting concerned record thereof kept with MinuteBook for that purpose with their pages consecutively numbered.(b) Each page of every such book shall be initialed orsigned and the last page of the record of proceedings of each meeting in suchbook shall be dated and signed by the Chairman of the same meeting within theaforesaid period of thirty days or in the event of the death or inability ofthat Chairman within that period by a Director duly authorised by the Boardfor the purpose.(c) In no case the minutes of proceedings of a meeting shallbe attached to any such book as aforesaid by pasting or otherwise.(d) The minutes of each meeting shall contain a fair andcorrect summary of the proceedings thereat.(e) All decisions taken and appointments of officers made atany meeting aforesaid shall be included in the minutes of the meeting.(f) Nothing herein contained shall require or be deemed torequire the inclusion in any such minutes of any matter which in the opinion ofthe Chairman of the meeting (a) is or could reasonably be regarded asdefamatory of any person or (b) is irrelevant or immaterial to theproceedings or (c) is detrimental to the interests of the Company. TheChairman of the meeting shall exercise an absolute discretion in regard to theinclusion or non-inclusion of any matter in the minutes on the aforesaidgrounds.(g) Any such minutes shall be evidence of the proceedingsrecorded therein. Where the minutes have been kept in accordance with sectionthen until the contrary is proved the meeting shall be deemed to have beenduly called and held all appointmentsof directors key managerial personnel auditors or company secretary inpractice shall be deemed to be valid. No document purporting to be a report ofthe proceedings of any general meeting of a company shall be circulated oradvertised at the expense of the company unless it includes the mattersrequired to be contained in the minutes of the proceedings of such meeting. Thecompany shall observe secretarial standards with respect to general and Boardmeetings specified by the Institute of Company Secretaries of India constitutedunder section 3 of the Company Secretaries Act 1980 and approved as such bythe Central Government. (h) The book containing the minutes of the proceedings ofany general meeting of the Company or of a resolution passed by postal ballotshall be kept at the registered office of the Company and shall be open duringbusiness hours to the inspection by any member without any charge for suchperiod not being less than two hours in each business day are allowed forinspection.
			Adjournment of meeting
☐	☑		• 82. Adjournment of Meeting (i) The Chairperson may with the consent of any meeting atwhich a quorum is present and shall if so directed by the meeting adjournthe meeting from time to time and from place to place.(ii) No business shall be transacted at any

			adjournedmeeting other than the business left unfinished at the meeting from which theadjournment took place. (iii) When a meeting is adjourned for thirty days or morenotice of the adjourned meeting shall be given as in the case of an originalmeeting. (iv) Save as aforesaid and as provided in section 103 ofthe Act it shall not be necessary to give any notice of an adjournment or ofthe business to be transacted at an adjourned meeting.
			Voting rights
☐	☑	50	• 83. Members in arrears not to voteNo member shall be entitled to vote either personally or byproxy at any General Meeting or Meeting of a class of shareholders either upona show of hands or upon a poll in respect of any shares registered in his nameon which any calls or other sums presently payable by him have not been paid orin regard to which the Company has exercised any right of lien.
☐	☑	51	• 84. Number of votes to which Member EntitledSubject to the provisions of these Articles and without prejudice to any special privileges or restrictions as to voting for the time being attached to any class of shares for the time being forming part of the capital of the Company every Member shall be entitled to be present and to speak and vote at such meeting by show of hand for which the Member present in person shall have one vote. On a poll taken at a meeting of a company a member entitled to more than one vote or his proxy need not to use all his votes or cast in the same way all the votes he uses.
☐	☑	52	• 85. Votes by a Member entitled to more than one voteOn a poll taken at a meeting of the Company a Member entitled to more than one vote by virtue of his share-holding or his proxy or other person entitled to vote for him as the case may be need not if he votes use all his votes or cast in the same way all the votes he uses and he may vote in different manner as he deems fit.
☐	☑	53	• 86. Vote of Member who is a minorIf any shareholder be a minor the vote in respect of his share or shares shall be by his guardian or any one of his guardians if more than one to be selected in case of dispute by the Chairman of the meeting.
☐	☑	54	• 87. Votes of Joint MembersIf there be joint registered holders of any shares the vote of the senior who tenders a vote whether in person or by proxy shall be accepted to the exclusion of the votes of the other joint holders. For this purpose seniority shall be determined by the order in which the names stand in the register of members..
☐	☑	55	• 88. Voting in person or by proxy or RepresentativeSubject to the provisions of these Articles votes may be given either personally or by proxy. A body corporate being a Member may vote either by proxy or by a representative duly authorised in accordance with Section 113 of the Act and such representative shall be entitled to exercise the same rights and powers (including the right to vote by proxy) and by postal ballot on behalf of the body corporate which he represents as that body could exercise if it were an individual Member of the Company
☐	☑		• 89. Votes in respect of shares of DeceasedAny person entitled under the Transmission Clause totransfer any

		56	shares may vote at any General Meeting in respect thereof in thesame manner as if he were the registered holder of such shares. PROVIDED thatforty-eight hours at least before the time of holding the meeting or adjournedmeeting as the case may be at which he proposes to vote he shall satisfy theChairman of his right to transfer such shares and give such indemnity (if any)as the Chairman may require or the Chairman shall have previously admitted hisright to vote at such meeting in respect thereof.90. Time for objection to voteNo objection shall be made to the validity of any voteexcept at the meeting or poll at which such vote was tendered and every votewhether given personally or by proxy not disallowed at such meeting or pollshall be deemed valid for purposes of such meeting or poll whatsoever.91. Chairman of the meeting to be the judge of the validityof any Vote The Chairman of any meeting shall be the sole judge of thevalidity of every vote tendered at such meeting. The Chairman present at thetaking of a poll shall be the sole judge of the validity of every vote tenderedat such poll.
			Proxy
☐	☑	57	• 92. Appointment of proxy A person can act as proxy on behalfof members not exceeding fifty and holding in the aggregate not more than tenpercent of the total share capital of the company carrying voting rightsProvided that a member holding more than ten percent of thetotal share capital of the Company carrying voting rights may appoint a singleperson as proxy and such person shall not act as proxy for any other person orshareholder.Every proxy shall be appointed in writing under the hand ofthe Member or if such Member is a body corporate under the common seal of suchcorporation or be signed by an appointer or his attorney duly authorised inwriting. The proxy so appointed shall not have any right to speak at themeetings.
☐	☑	58	• 93. Deposit of instrument of Proxy etc.The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarized copy of that power or authority shall be deposited at the Registered Office of the Company not later than forty-eight hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of twelve months from the date of its execution.
☐	☑	59	• 94. Form of proxyAn instrument appointing a proxy shall be in the form No.MGT-11 as prescribed in the rules made under section 105 of the Companies Act201395. Proxy either for specified meeting or for a periodAn instrument of proxy may appoint a proxy either for thepurpose of a particular meeting specified in the instrument and any adjournmentthereof or it may appoint for the purpose of every meeting of the Company orof every meeting to be held before a date specified in the instrument and everyadjournment of any such meeting.96. Validity of votes given by proxy notwithstanding deathof MemberA vote given in accordance with the terms of an instrumentof proxy shall be valid notwithstanding the previous death or insanity of

			theprincipal or the revocation of the proxy or of the authority under which theproxy was executed or the transfer of the shares in respect of which the proxyis given. Provided that no intimation in writing of such deathinsanity revocation or transfer shall have been received by the company at itsoffice before the commencement of the meeting or adjourned meeting at which theproxy is used.
			Board of Directors
☐	☑	60	• 97. Management of Affairs The day to day management of the business and affairs of theCompany shall be vested with Project-in-charge under the supervision direction control of the Board. The Board may exercise all such powers of theCompany and do all such acts deeds and things as are not prohibited by the Actor any other statute or by the Memorandum of Association of the Company andwithout prejudice to the foregoing shall be responsible for all policy mattersand the supervision direction and control of the conduct of the businessaffairs operations of the Company.
☐	☑	61	• 98. First Directors Shri Neeraj Singh Shri Sandeep kumar and Shri Sanjay Kumar Nayak shall be the First Directors of the Company.
☐	☑		• 99. Number and appointment of DirectorsThe Board of Directors of the Company shall consist of notless than 3 but not more than 15 Directors. A Director shall not be required tohold any qualification shares in the Company.Notwithstanding anything to the contrary contained in theseArticles so long as any moneys remain owing by the Company to a FinancialInstitution or any other person by the Company or the Company has entered intoany agreement or undertaking or arrangement (hereinafter refer as agreement)with Bodies (like State Electricity BoardNigam) or the Board of Directors havedecided to seek nomination on the Board from the beneficiary state or anyFinancial Institution or PFC Consulting Limited or person holds Debentures inthe Company by direct subscription or private placement the Company may agreeto grant to such Financial Institution PFC Consulting Limited person or otherBodies as a condition of such loan or subscription to Debenture or any otheragreement or to a Debenture Trustee the right to appoint from time to time anyperson or persons as Director or Directors of the Company (which director ordirectors is are hereinafter referred to as Nominee Directors) retiring ornon-retiring subject to and on such terms and conditions as the Company mayagree with such Financial Institutions PFC Consulting Limited Person otherBodies andor Debenture Trustee. The Company shall have a right to remove fromoffice Nominee Director(s) at the option of the Company in consultation withFinancial Institutions PFC Consulting Limited Bodies persons or DebentureTrustee.Such Nominee Director(s) shall not be required to hold anyShare qualification in the Company. Also at the option of the Company suchNominee Director(s) shall not be liable to retirement by rotation of theDirectors. Subject as aforesaid the Nominee Director(s) shall be entitled tothe same rights and privileges and be subject to the same obligations as anyother Director of the Company. The Nominee Director(s) so appointed shall hold the

		62	saidoffice only so long as moneys remain owing by the Company to the FinancialInstitution or so long as the Debenture Trustee hold debenture in the Companyor operation of agreement and the Nominee Directors so appointed in theexercise of the said person shall ipso facto vacate such office immediately themoney owing by the Company to the Financial Institution or on the DebentureTrustee ceasing to hold Debentures Shares on the satisfaction of liability ofthe Company arising out of any Guarantee furnished by the FinancialInstitutions or satisfactory completion of term of agreement with Bodies. The Nominee Director(s) appointed under this article shallbe entitled to receive all notice of and attend all General meeting BoardMeeting and of the meetings of the Committee of which the Nominee Director(s)isare member(s) as also the minutes of meetings. The financialinstitutionsDebenture Trusteepersonsbodies shall also be entitled to receiveall such notice and minutes.The Company shall pay to the Nominee Director(s) sittingfees and expenses which other Director of the Company are entitled but if anyother fees commission remuneration in any form is payable to the Director ofthe Company the fees commission money and remuneration in relation to suchNominee Director(s) shall accrued to Debenture Trustee and same shallaccordingly be paid by the Company directly to the debenture trustee. Anyexpenses that may incurred by the financial institution or such Nominee Director(s)in connection with their appointment or Directorship shall also be paid orreimbursed by the Company to the financial Institution or as the case may be tosuch Nominee Director(s).Provided that if any such Nominee Director(s) isare anofficer of the Financial Institution the sitting fees in relation to suchNominee Director(s) shall also accrue to the Financial Institute and the sameshall accordingly be paid by the Company directly to that FinancialInstitution.Provided further that if such Nominee Director(s) isare anofficial of any of the Reserve Bank of India the sitting fees in relation tosuch Nominee Director(s) shall also accrue to Financial Institution to whom herepresents as Nominee Director from Reserve Bank of India and the same shallaccordingly be paid by the Company directly to that Financial Institution. Provided also that in the event of the Nominee Director(s)being appointed as Whole Time Director(s) such Nominee Director(s) shallexercise such powers and duties as may be approved by the Lenders or Bodies inconsultation with Board and have such rights as are usually exercised oravailable to a Whole Time Director in management of the Borrower or Bodies andsuch Nominee Director(s) shall be entitled to receive such remuneration feescommission and moneys as may be approved by the Lenders or Bodies in consultationwith Board.
☐	☑	63	• 100. Company may increase the number of DirectorsSubject to Section 149 of the Act the Company may subjectto special resolution in General Meeting increase the maximum number ofDirectors. Further the Company may subject to the provisions ofSection 169 of the Act by passing the ordinary resolution in the GeneralMeeting of the members may remove any Director before the expiration of hisperiod of office and appoint another person in the place of director soremoved.

☐	☑	64	• 101. Appointment of Alternate Directors In accordance with Section 161 and other applicableprovisions (if any) of the Act the Board shall have power at any time and fromtime to time to appoint a person not being a person holding any alternatedirectorship for any other Director in the Company to act as an alternatedirector for a director (hereinafter called the original Director) during hisabsence for a period of not less than three months from India.
☐	☑	65	• 102. Directors power to fill up casual Vacancies Casual vacancies among Directors may be filled by the Boardof Directors at their meeting and any person so appointed shall hold the officeas per the provision of section 161.
☐	☑		• 103. Appointment of Additional DirectorSubject to the provisions of Section 161 and otherapplicable provisions (if any) of the Act the Board shall have power at anytime and from time to time to appoint a person as an Additional Director butso that the total number of Directors shall not at any time exceed the maximumnumber fixed by these Articles. The Additional Director so appointed shallretire from Office at next following Annual General Meeting but shall beeligible for election by the company at that meeting as a Director.104. Directors may act notwithstanding any vacancyThe continuing Directors may act notwithstanding any vacancyin their body but if and so long as their number is reduced below the minimumnumber fixed by Article 100 thereof the continuing Directors may act for thepurpose of increasing the number of Directors to that number or of summoning aGeneral Meeting for that purpose.105. Remuneration of DirectorsSubject to the provisions of the Act the Chairman orManaging Director or any other functional Directors who isare in thewhole-time employment of the Company may be paid remuneration either by way ofa monthly payment or at a specified percentage of the net profit of the Companyor partly by one way and partly by the other keeping in view the limitingprovisions governing the Managerial remuneration under the provisions of theAct.Subject to the provisions of the Act a Director who isneither in the whole-time employment nor a Chairman cum Managing Director ofthe Company may be paid remuneration either-(a) by way of monthly quarterly or annual payment with theapproval of the Central Government or(b) by way of commission if the Company by a specialresolution authorizes such payment andThe sitting fee payable to a Director (excluding Whole-timeDirector) for attending a meeting of the Board or Committee thereof shall besuch sum as may be fixed by the Board provided that the same shall not exceedRs. 100000- or such other sum as prescribed in the Act as amended from timeto time.Travelling expenses incurred by Director going out onCompanys BusinessThe Board may allow and pay to any Director who is not abona-fide resident of the place where the Registered Office of the Company orwhere the meetings of the Board are actually held and who has to come to suchplace for the purpose of attending any meeting such sum as the Board mayconsider fair compensation for travelling boarding lodging and other actualincidental expenses in addition to his fee for attending such meeting asspecified above. If any

		66	Director be called upon to go or reside out of thebonafide place of his residence on the Companys business he shall be entitledto be paid and reimbursed any travelling or other actual expenses incurred byhim in connection with the business of the Company.106. When office of Directors to become Vacant Subject to Section 167 of the Act the office of a Directorshall become vacant if-(a) he incurs any of the disqualifications specified insection 164 under the act(b) he absents himself from all the meetings of the Board ofDirectors held during a period of twelve months with or without seeking leaveof absence of the Board(c) he acts in contravention of the provisions of enteringinto contracts or arrangements in which he is directly or indirectlyinterested(d) he fails to disclose his interest in any contract orarrangement in which he is directly or indirectly interested(e) he becomes disqualified by an order of a court or theTribunal(f) he is convicted by a court of any offence whetherinvolving moral turpitude or otherwise and sentenced in respect thereof toimprisonment for not less than six monthsProvided that the office shall be vacated by the directoreven if he has filed an appeal against the order of such court(g) he is removed inpursuance of the provisions of this Act(h) he having been appointed a director by virtue of hisholding any office or other employment in the holding subsidiary or associatecompany ceases to hold such office or other employment in that company.107. Directors may contract with CompanyExcept with the consent of the Board of Directors given by aresolution at a meeting of the Board and subject to such conditions the company shall not enter into any contract orarrangement with a related party with respect to(a) sale purchase or supply of any goods or materials(b) selling or otherwise disposing of or buying propertyof any kind(c) leasing of property of any kind(d) availing or rendering of any services(e) appointment of any agent for purchase or sale of goodsmaterials services or property(f) such related partys appointment to any office or placeof profit in the company its subsidiary company or associate company (g) underwriting the subscription of any securities orderivatives thereof of the company.Every contract or arrangement entered as related partytransaction shall be referred in the Boards report to the shareholders alongwith the justification for entering into such contract or arrangement.108. Disclosure of interest by Directors 1) Every Director of the Company who is in any way whetherdirectly or indirectly concerned or interested in a contract or arrangementor proposed by Directors interested in a contract or arrangement or proposedcontract or arrangement entered into or to be entered into by or on behalf ofthe Company shall disclose the nature of his concern or interest at everyfinancial year or whenever there is change in the disclosure of interest.(2) Nothing in sub-clause (1) of this Article shall apply toany contract or arrangement entered into or to be entered into between theCompany and any other company where any of the Directors of the Company or twoor more of the Directors together holds or hold not more than two per cent ofthe paid-up share capital in the other company109. Interested Directors not to participate or vote inBoards proceedingsAn interested director who is in any way whether byhimself or through any of his relatives or firm body corporate or

			otherassociation of individuals in which he or any of his relatives is a partnerdirector or a member interested in a contract or arrangement or proposedcontract or arrangement entered into or to be entered into by or on behalf ofa company shall take any part in the discussion of or vote on any contractor arrangement entered into or to be entered into by or on behalf of the Companyif he is in any way whether directly or indirectly concerned or interested insuch contract or arrangement nor shall his presence count for the purpose offorming a quorum at the time of any such discussion or vote and if he doesvote his vote shall be void.A contract or arrangement entered into by the companywithout disclosure or with participation by a director who is concerned orinterested in any way directly or indirectly in the contract or arrangementshall be voidable at the option of the company.110. Register of Contracts in which Directors are interestedThe company shall keep registers in accordance with Section189(1) giving separately the particulars of all contracts or arrangements towhich to matter of disclosure of interest by directors and related partytransaction applies in such manner and containing such particulars as may beprescribed and after entering the particulars such registers shall be placedbefore the next meeting of the Board and signed by all the directors present atthe meeting and shall within thirty days of appointment make such disclosure asare necessary for the purpose of same.The Register shall be kept at the Registered office of theCompany and shall be open to inspection at such office shall be open forinspection at such office during business hours and extracts may be taken therefrom and copies thereof as may be required by any member of the company shallbe furnished by the company to such extent in such manner and on payment ofsame fee as in the case of the Register of Members of the Company.111. Director may be Director of companies promoted by theCompanyA Director may become a Director of any other companypromoted by the Company or in which it may be interested as a vendorshareholder or otherwise and no such Director shall be accountable for anybenefits received as Director or shareholder of such a company except in so faras Section 188 of the Act may be applicable.112. Register of Directors and key managerial personnel and their Shareholding The Company shall keep at its registered office a Registercontaining such particulars of its Directors and key managerial personnelManager as may be prescribed under Section 170 of the Act and shall comply withthe provisions of the said Section in all respects. The register shall includethe details of securities held by each of them in the company or its holdingsubsidiary subsidiary of companys holding company or associate companies.
			Proceedings of the Board
☐	☑	67	• 113. Meetings of DirectorsThe Directors may meet together as a Board for the dispatchof business from time to time so that at least four such meetings shall beheld in every year in such a manner that not more than one hundred and twentydays shall intervene between two consecutive meetings of the Board. TheDirectors may adjourn and regulate their meetings as they think fit.

☐	☑	68	• 114. Board may appoint ChairmanAll meetings of the Directors shall be presided over by the Chairman if present but if at any meeting of the Directors the Chairman is not present at the time appointed for holding the same then in that case the Directors shall choose one of the Directors present to preside over the meeting.
☐	☑	69	• 115. Certain persons not to be appointed Chairman Managing Directors Functional DirectorThe Company shall not appoint a person as its Chairman Managing Director or Whole-time Director who-(a) is an undischarged insolvent or had at any time been adjudged an insolvent(b) is or has at any time been convicted by a Court of an offence involving moral turpitude.
☐	☑	70	• 116. Notice of Directors MeetingA meeting of the Board shall be called by giving not less than seven days notice in writing to every director at his address registered with the company and such notice shall be sent by hand delivery or by post or by electronic means. Board may be called at shorter notice to transact urgent business where at least one independent director if any shall be present.Every notice convening a meeting of the Board of Directors shall set out the agenda of the business to be transacted thereat in sufficient detail provided however that the meeting may consider any other business with the permission of the chair.
☐	☑	71	• 117. When meeting to be convenedThe Company Secretary or any director of the Company may asand when directed by the Chairman to do so convene a meeting of the Board bygiving a notice in writing to every Director.
☐	☑	72	• 118. Quorum at Board MeetingNo business shall be transacted at any Board meeting unless a quorum of Board of Director is present at the time when the meeting proceeds to business.Save as otherwise provided herein the quorum for the Board meetings shall be as provided in section 174.
☐	☑	73	• 119. Questions at Board meetings how to be decidedAll questions arising at a Meeting of the Board or any committee thereof shall be decided by majority of votes of directors present and in case of equality of votes the Chairperson shall have a second and casting vote.
☐	☑	74	• 120. Committee of BoardSubject to the restrictions contained in Section 179 180and other applicable provisions of the Act and preceding Articles the Boardmay delegate any of its powers to Committees of the Board consisting of suchmember or members of its body as it may think fit.PROVIDED that the Board may from time to time revokemodify and discharge any such Committee of the Board either wholly or in part.Every Committee of the Board so formed shall in the exercise of the powers sodelegated conform to any Policyregulations that may from time to time belaid down by the Board. All acts done by any such Committee of the Board inconformity with such regulations and in fulfillment of the purposes of theirappointment shall have the like force and effect as if done by the Board
☐	☑		• 121. Meeting of Committee how to be GovernedThe meetings and proceedings of any such Committee of the

		75	Board consisting of two or more members shall be governed by the provisions of the act and guidelines laid down for regulating the meetings and proceedings of the Directors so far as the same are applicable thereto and are not superseded by any regulations made by Directors under the last preceding Article.
☐	☑		• 122. Resolution by circulationNo resolution on matters shall be deemed to have been dulypassed by the Board or by a Committee thereof by circulation unless theresolution has been circulated in draft together with the necessary papers ifany to all the Directors or members ofthe Committee as the case may be at their addresses registered with thecompany in India by hand delivery or by post or by courier or through suchelectronic means as may be prescribed and has been approved by a majority ofthe directors or members who are entitled to vote on the resolution. Resolution passed in such circulation shallbe made part of the minutes of such meeting.Provided that where not less than one-third of the totalnumber of directors of the company for the time being require that anyresolution under circulation must be decided at a meeting the chairpersonshall put the resolution to be decided at a meeting of the Board.123. Defects in appointment of Directors not to invalidateactions taken All acts done by anymeeting of the Board or by a Committee of the Board or by any person actingas a Director shall notwithstanding that it was subsequently noticed that therewas some defect in the appointment of such Director or persons acting as aforesaidor that they or any of them were disqualified or had vacated office or thatthe appointment of any of them had been terminated by virtue of any provisionscontained in the Act or these Articles be as valid as if every such person hadbeen duly appointed and was qualified to be a Director and had not vacated hisoffice or his appointment had not been terminated.PROVIDED that nothing in this Article shall be deemed togive validity to acts done by a Director after his appointment had been noticedby the Company to be invalid or to have terminated.124. Minutes of proceedings of meetings of the Board(a) The Company shall cause minutes of all proceedings ofevery meeting of the Board and committee thereof to be kept by making withinthirty days of the conclusion of every such meeting record thereof in MinuteBook kept for that purpose with their pages consecutively numbered.(b) Each page of every such book shall be initialed orsigned and the last page of the record of proceedings of each meeting in suchbook shall be dated and signed by the Chairman of the said meeting or theChairman of the next succeeding meeting.The minute books of the Board and committee meetings shallbe preserved permanently and kept in the custody of the company secretary ofthe company or any director duly authorized by the Board for the purpose andshall be kept in the registered office or such place as Board may decide. The minutes shall also contain-(i) the names of the Directors present at the meetingAnd(ii) in the case of each resolution passed at the meetingthe names of the Directors if any dissenting from or not concurring with theresolution.Nothing deemed torequire the inclusion in any such minutes of any matter which in the opinionof the Chairman of the meeting (i) is or could reasonably be regarded as defamatory ofany person.(ii) is irrelevant or immaterial to the proceedings or(iii) is

			detrimental to the interests of the Company. TheChairman shall exercise an absolute discretion in regard to the inclusion ornon-inclusion of any matter in the minutes on the grounds specified in thissub-clause. (c) Minutes of meetings kept in accordance with theaforesaid provisions shall be evidence of the proceedings recorded therein.125. Powers of BoardThe Board may exercise all such powers of the Company and doall such acts and things as it is entitled to do under section 179 of the Actand rules made thereunder or by the Memorandum or Articles of the Company butshall not decide matters required to be exercised or done by the Company inGeneral Meeting Subject to these Articles no regulation made by the Company inGeneral Meeting shall invalidate any prior act of the Board which would havebeen valid if that regulation had not been so made.Certain powers of the BoardWithout prejudice to the general powers conferred by the Actand preceding Article and so as not in any way to limit or restrict thosepowers and without prejudice to the other powers conferred by these Articlesand by General Body it is hereby declared that the Directors shall have thefollowing powers that is to say power-(1) to pay and chargeto the capital account of the Company any commission or interest lawfullypayable there out under the provisions of Sections 40 of the Act(2) Subject to Sections 179 and 180 of the Act to purchaseor otherwise acquire for the Company any property rights or privileges whichthe Company is authorised to acquire at or for such price or consideration andgenerally on such terms and conditions as they may think fit and in any suchpurchase or other acquisition to accept such title as the Directors may believeor may be advised to be reasonably satisfactory(3) At their discretion and subject to the provisions of theAct to pay for any property rights or privileges acquired by or servicesrendered to the Company either wholly or partially in cash or in sharesbonds debentures mortgages or other securities of the Company and any suchshares may be issued either as fully paid-up or with such amount credited aspaid-up thereon as may be agreed upon and any such bonds debenturesmortgages or other securities may be either specially charged upon all or anypart of the property of the Company and its uncalled capital or not so charged(4) To secure the fulfillment of any contract or engagemententered into by the Company in the normal course of business by mortgage orcharge any of the property of the Company and its uncalled capital for the timebeing or in such manner as they may think fit(5) To accept from any Member as far as may be permissibleby law a surrender of his shares or any part thereof on such terms andconditions as shall be agreed upon(6) To appoint any person to accept and hold in trust forthe Company any property belonging to the Company in which it is interestedor for any other purposes and to execute and do all such deeds and things asmay be required in relation to any such trust and to provide for theremuneration of such trust or trustees(7) To institute conduct defend compound or abandon anylegal proceedings by or against the Company or its officers or otherwiseconcerning the affairs of the Company and also to compound and allow time forpayment or satisfaction of any debts due and of any claim or demand by oragainst the Company and to refer any

		76	differences to arbitration and observeand execute any awards made thereon(8) To act on behalf of the Company in all matters relatingto bankruptcy and insolvency(9) To make and give receipts releases and otherdischarges for moneys payable to the Company and for the claims and demands ofthe Company(10) Subject to applicable provisions of the Act to investand deal with any moneys of the Company not immediately required for thepurposes thereof upon such security (not being shares of this Company) orwithout security and in such manner as they may think fit and from time totime to vary or realise such investments. Save as provided in Section 187 ofthe Act all investments shall be made and held in the Companys own name(11) To execute in the name and on behalf of the Companyin favour of any Director or other person who may incur or going to incur anypersonal liability whether as principal or surety for the benefit of theCompany such mortgages of the Companys property (present and future) as theythink fit and any such mortgage may contain a power of sale and such otherpowers provisions covenants as shall be agreed upon(12) To open account with any bank or banks and to determinefrom time to time who shall be entitled to sign on the Companys behalf billsnotes receipts acceptances endorsements cheques dividend warrantsreleases contracts and documents and to issue the necessary authority for suchpurpose(13) To distribute by way of bonus or commission amongst thestaff of the Company on the profits of any particular business or transactionand to charge such bonus or commission as part of the working expense of theCompany(14) To provide for the welfare of employees or ex-employeesof the Company and their families or connections of such persons by buildingor contributing to the building of houses dwellings or chawls or by grants ofmoney pension gratuities allowances bonus or other payments or bycreating and from time to time subscribing or contributing to provident andother funds associations institutions or trusts and by providing orsubscribing or contributing towards places of instrument and recreation hospitalsand dispensaries medical and other attendance and other assistance as theBoard shall think fit and to subscribe or contribute or otherwise to assist orto guarantee money to charitable benevolent religious scientific nationalor other institutions or objects which shall have any moral or other claim tosupport or aid by the Company either by reason of locality of operation or ofpublic and general utility or otherwise(15) Before recommending any dividend to set aside out ofthe profits of the Company such sums as they may think proper for depreciationor to a Depreciation Fund or to an Insurance Fund or as a Reserve Fund orSinking Fund or any Special Fund to meet contingencies or to repay debenturesor debenture stock or for special dividends or for equalizing dividends or forrepairing improving extending and maintaining any of the property of theCompany and for such other purposes (including the purposes referred to in thepreceding clause) as the Board may in their absolute discretion think conducive to the interestof the Company and subject to Section 179 of the Act to invest the severalsums so set aside or so much thereof as required to be invested upon suchinvestments (other than shares of the Company) as they may think fit and fromtime to

			time to deal with and vary such investments and dispose of and applyand expend all or any part thereof for the benefit of the Company in suchmanner and for such purposes as the Board in their absolute discretion thinkconducive to the interest of the Company notwithstanding that the matters towhich the Board apply or upon which they expend the same or any part thereofmay be matters to or upon which the capital moneys of the Company might rightlybe applied or expended and to divide the Reserve Fund or division or a reserveFund to another Reserve Fund or division of a Reserve Fund and with full powerto employ the assets constituting all or any of the above funds including theDepreciation Fund in the business of the Company or in the purchase orrepayment of Debentures or debenture stock and without being bound to keep thesame separate from the other assets and without being bound to pay interest onthe same with power however to the Board at their discretion to pay or allow tothe credit of such funds interest at such rate as the Board may think proper(16) To appoint and at their discretion remove or suspendsuch officers such as Executive Director general managers managerssecretaries assistants supervisors clerks agents and servants etc. forpermanent temporary or special services as they may from time to time thinkfit and to determine their powers and duties and fix their salaries oremoluments or remunerations and to require security in such instances and tosuch amounts as they may think fit. And also from time to time to provide for themanagement and transaction of the affairs of the Company in any specifiedlocality in India or abroad in such manner as they think fit and theprovisions contained in the following sub-clauses shall be without prejudice tothe general powers conferred by this sub clause(17) From time to time and at any time to establish anynumber of offices and establishment for properly managing the affairs of theCompany in any specified locality in India or elsewhere and to appoint stafffor such offices and to fix their remuneration(18) Subject to the provisions of the Act from time to timeand at any time to delegate to any such local Board or any member or membersthereof or any managers or agents so appointed or to any other person(s) any ofthe powers authorities and discretions for the time being vested in theBoard and to authorise the members for the time being of any such local Boardor any of them to fill up any vacancies therein and to act notwithstandingvacancies and any such appointment or delegation under the preceding and thissub-clause may be made on such terms and subject to such conditions as theBoard may think fit and the Board may at any time remove any person soappointed and may annul or vary any such delegation(19) At any time and from time to time by Power of Attorneyunder the Seal of the Company to appoint any person or persons to be theAttorney or Attorneys of the Company for such purposes and with such powersauthorities and discretions (not exceeding those vested in or exercisable bythe Board under these presents and excluding the power to make calls andexcluding also those which are to be exercised by the Board in its Meetings)and for such period and subject to such conditions as the Board may from timeto time think fit and any such appointment may (if the Board thinks fit) bemade in favour of the members or any of the members

			of any local Boardestablished as aforesaid or in favour of any company or the shareholdersdirectors nominees or managers or any company or firm or otherwise in favourof any persons whether appointed by name or designation by the Board and anysuch Power of Attorney may contain such powers for the protection orconvenience of such Attorney as the Board may think fit and Board mayspecifically bestow powers enabling any such delegate or attorneys tosub-delegate all or any of the powers authorities and discretions for the timebeing vested in them(20) Subject to Sections 188 of the Act for or in relationto any of the matters aforesaid or otherwise for the purposes of the Companyto enter into such negotiations and contracts and rescind and vary suchcontracts and execute and do all such acts deeds and things in the name and onbehalf of the Company as they may consider expedient(21) From time to time to make vary and repeal bye-laws forthe regulations of the business of the Company regulate employment of itsofficers and servants by making service Rules and Regulations(22) Maintain proper records at places as per provisions ofthe Act and where the Company has a branch office whether in or outside Indiathe Company shall be deemed to have complied with this Article if proper Booksof Account relating to the transactions effected at the branch office are keptat the branch office and proper summarized returns made up-to-date atintervals of not more than three months are sent by the branch office to theCompany at its Office or other place in India at which the Companys Books ofAccounts are kept as aforesaid(23) Ensure proper maintenance of the Books of Account whichshall give a true and fair view of the state of the affairs of the Company orbranch office as the case may be and explain its transactions. The Books ofAccount and other books and papers shall be open to inspection by any Directorduring business hours.
			Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer
☐	☑	77	• 126. CEO MANAGER CS AND CFOSubject to the provisions of the Act --(i) A chief executive officer manager company secretary orchief financial officer may be appointed by the Board for such term at suchremuneration and upon such conditions as it may thinks fit and any chiefexecutive officer manager company secretary or chief financial officer soappointed may be removed by means of a resolution of the Board(ii) A director may be appointed as chief executive officermanager company secretary or chief financial officer As per provisions of the Act or these regulations requiringor authorising a thing to be done by or to a director and chief executiveofficer manager company secretary or chief financial officer shall not besatisfied by its being done by or to the same person acting both as directorand as or in place of chief executive officer manager company secretary orchief financial officer.
☐	☑	78	•
			The Seal
☐	☑		• 127. The Seal its custody and useThe Board shall provide a Common Seal for the purpose of theCompany and shall have power from time to time to destroy the same andsubstitute a new Seal in lieu thereof and the Board

		79	shall provide for the safecustody of the Seal for the time being and the seal shall never be used excepton the authority of the Board or by Committee of the Board as authorised.128. Deeds how executedEvery deed or other instrument to which the Seal of theCompany is required to be affixed shall unless the same is executed by a dulyconstituted attorney issued under the seal be signed by two Directors or oneDirector and Secretary or some other person authorised by the Board for thepurpose PROVIDED that in respect of the Share Certificate the Sealshall be affixed in accordance with Article as mentioned above.
			Dividends and Reserve
☐	☑	80	• 129. Division of profits and dividends in proportion toamount paid- up(a) The profits of the Company subject to any specialrights relating thereto created or authorised to be created by these Articlesand subject to the provisions of these Articles shall be divisible among theMembers in proportion to the amount of capital paid-up or credited as paid-upon the shares held by them.(b) All dividends shall be apportioned and paidproportionately to the amounts paid or credited as paid on the shares heldduring any portion or portions of the period in respect of which the dividendis paid but if any share is issued on terms providing that it shall rank fordividend from a particular date such share shall rank for dividendaccordingly.
☐	☑	81	• 130. The Company in General Meeting may declare a dividendCompany in General Meeting may declare dividends to be paid to Members according to their respective rights but no dividends shall exceed the amount recommended by the Board but the Company in General Meeting may declare a smaller dividend.
☐	☑	82	• 131. Dividends only to be paid out of Profitsa) No dividend shall be declared or paid by the Company for any financial year except out of its profits for that year arrived at in the manner set out in Section 123 of the Act. (b) Where owing to inadequacy or absence of profits in any financial year any Company proposes to declare dividend out of the accumulated profits earned by it in previous years and transferred by the company to reserves such declaration of dividend shall not be made except in accordance with such rules as may be made in that behalf.(c) No dividend shall be declared or paid by a company from its reserves other than free reserves.
☐	☑	83	• 132. Interim DividendSubject to the provisions of Section 123 the Board mayfrom time to time pay the Members such interim dividend as appear to it to bejustified by the profits of the Company.
☐	☑	84	• 133. Capital paid - up in advance to carry InterestWhere capital is paid in advance of calls such capital may carry interest but shall not in respect thereof confer a right to dividend or participate in profits.
☐	☑	85	• 134. Retention of dividends until completion of transferThe Board may retain the dividends payable on shares in terms of Section 126 in respect of which any person is entitled to become a Member or on completion any person under those Articles is entitled to transfer or

			until such person shall become a Member in respect of such shares or shall duly transfer the same.
☐	☑	86	• 135. Transfer of shares must be RegisteredA transfer of shares shall not pass the right to anydividend declared thereon before the registration of transfer. Provided that where any instrument oftransfer of shares has been delivered to the Company for registration and thetransfer of such shares has not been registered by the Company it shallnotwithstanding anything contained in any other provision of this Acta) transfer the dividend in relation to such shares to theUnpaid Dividend Account referred to in Section 124 of the Act unless theCompany is authorised by the registered holder of such shares in writing to paysuch dividend to the transferee specified in such instrument of transfer and (b) keep in abeyance in relation to such shares any offerof rights shares under clause (a) ofsub-section (1) of section 62 of the Act and any issue of fully paid-up bonusshares in pursuance of first proviso to sub-section (5) of section 123 of theAct.
☐	☑	87	• 136. No Member to receive dividend whilst indebted to theCompany Companys right of reimbursement Thereon No Member shall be entitled to receive payment as interestor dividend in respect of his shares whilst any money may be due or owing fromhim to the Company in respect of such share or shares or otherwise howsoevereither alone or jointly with any person or persons and the Board may deductfrom the interest or dividend payable to any Member all sums of money so duefrom him to the Company.
☐	☑	88	• 137. Dividends how remitted(1) Unless otherwise directed any dividend payable in cashmay be paid by cheque or warrant or in any electronic mode or by a pay slip orreceipt or in any other manner having the force of a cheque or warrant sentthrough the post to the registered address of the Member or person entitled orin case of joint holders to that one of them first named in the Register inrespect of the joint holdings. Every such cheque or warrant shall be madepayable to the order of the person to whom it is sent the Company shall not beliable or responsible for any cheque or warrant or pay slip or receipt lost intransmission or for any dividend lost to the Member or person entitled theretoby the forged endorsement of any cheque or warrant or the forged signature ofany pay slip or receipt or the fraudulent recovery of the dividend by any othermeans.(2) Notwithstanding anything contained in these Articles anydividend declared may be paid by Electronic Clearing System through anySponsor Bank after getting registration with the Reserve Bank of India forusing this facility and collecting from the members necessary bank mandate inthe prescribed format.138. Dividends and call together Any General Meeting declaring a dividend may on therecommendation of the Board make a call on the Members of such amount as themeeting may fix but so that the call on each Member shall not exceed thedividend payable to him and so that the call be made payable at the same timeas the dividend and the dividend may if so arranged between the Company andthe Member be set off against the calls.139. Unclaimed dividendNo unclaimed dividend shall be forfeited and all unclaimeddividends shall be dealt with in accordance with the provisions of Section 124and

			other applicable provisions of the Act.140. No interest against Dividend No dividend shall bear interest against the company.
			Accounts
☐	☑	89	• 141. Directors to keep true accounts(a) Every company shall prepare and keep at its registered office including its branch officeor offices or at such other place in India as the Board thinks fit Books ofAccounts and other relevant books and papers and financial statement for everyfinancial year which give a true and fair view of the state of the affairs ofthe company in accordance with Section 128 of the Act with respect to-(i) all sums of money received and expended by the Companyand the matters in respect of which the receipts and expenditure take place(ii) all sales and purchases of goods by the Company(iii) the assets and liabilities of the Company. (iv) state of affairs of the company.(b) Where the Board decides to keep all or any of the Booksof Account at any place other than the Office of the Company the Company shallwithin seven days of the decision file with the Registrar a Notice in writinggiving the full address of that other place in accordance with Section 128 ofthe Act.(c) The company may keep such books of account or otherrelevant papers in electronic mode in such manner as may be prescribed.(d) The Company shall preserve in good order the Books ofAccount relating to a period of not less than eight financial years immediatelypreceding a financial year. The books ofaccount and other relevant books and papers maintained in electronic mode shallremain accessible in India so as to be usable for subsequent reference togetherwith the vouchers relevant to any entry in such Books of Account.142. Inspection of accounts or record by membersNo Member (not being a director) shall have any right ofinspecting any account or books or documents of the Company except as conferredby Section 94 of the Act or authorised by the Board or by the company ingeneral meeting.The Board may determine whether and to what extent and atwhat time and place and under what conditions or regulations the accounts andbooks of the Company or any of them may be open to inspection of the Members.Notwithstanding anything to the contrary contained hereinabove the authorisedrepresentative of Promoters shall have a right to inspect the accounts booksplant facility documents records premises equipment and machinery and allother property of the Company at convenient time(s) after giving advancenotice to the Company.143. Statement of Accounts to be furnished to GeneralMeeting The Directors shall from time to time in accordance withSections 129 and 134 and other applicable provisions of the Act cause to beprepared and to be laid before the Company in General Meeting such BalanceSheets Profit and Loss Accounts and Reports as are required by these Sections.144. Copies shall be sent to each MemberWithout prejudice to the provisions of Section 101 andsubject to the provisions of Section 136 of the Act a copy of the financialstatements including consolidated financial statements auditors report andevery other document required by law to be annexed or attached to the BalanceSheet shall at least twenty-one days before the General Body Meeting at whichthe same are to be laid before the members be sent to the

			members of thecompany to every trustee for every holder of any debenture issued by thecompany and to all persons other than such members or trustee being the personso entitled to attend the General Body Meeting.145. Copy of financial statement to be filed with registrar The Company shall comply with Section 137 of the Act as tofiling copies of the Balance Sheet and Profit and Loss Account and documentsrequired to be annexed or attached thereto with the Registrar.
			Winding up
☐	☑	90	• 146. Procedure for winding upIf the Company shall be wound up and the assets availablefor distribution among the members as such shall be insufficient to repay thewhole of the paid up capital such assets shall be distributed so that as nearlyas may be the losses shall be borne by the members in proportion to the capitalpaid up or which ought to have been paid up at the commencement of thewinding-up on the shares held by them respectively. And if in a winding-up theassets available for distribution among the members shall be more thansufficient to repay the whole of the capital paid up at the commencement of thewinding-up the excess shall be distributed amongst the members in proportionto the capital at the commencement of the winding-up paid up or which ought tohave been paid up on the shares held by them respectively. But this Article isto be without prejudice to the rights of the holders of shares issued uponspecial terms and conditions. If the Company shall be wound up whether voluntarily orotherwise the liquidators may with the sanction of a Special Resolutiondivide among the contributions in specie or kind any part of the assets ofthe Company and may with the like sanction vest any part of the assets of theCompany in Trustees upon such trusts for the benefit of the contributories orany of them as the liquidators with the like sanction shall think fit.
			Indemnity
☐	☑	91	• 147. Officers to be indemnified Subject to provisions of the Act every Officer of thecompany shall be indemnified out of the assets of the Company against anyliability incurred by him in defending any proceedings whether civil orcriminal in which judgment is given in his favour or in which he is acquittedor in which relief is granted to him by the court or the Tribunal. Providedthat if such person is proved to be guilty the premium paid on such insuranceshall be treated as part of the remuneration.
			Others
☐	☑		• 148. Company not bound to recognize holding of shares ontrust or any interest in shares other than that of registered holderExcept as ordered by a Court of competent jurisdiction or asrequired by law the Company shall not be bound to recognize holding of anyshare upon any trust and to recognize any equitable contingent future orpartial interest in any share or any interest in any fractional part of ashare (except only as is by these Articles otherwise expressly provided) anyright in respect of a share other than an absolute right thereto in accordancewith these Articles in the person from time to time registered as the holderthereof but the Board shall be at liberty at their sole discretion to registerany share in the joint names of any two or more persons or the

			survivor orsurvivors of them.149. Funds etc. of Company may not be applied in purchase ofshares of the CompanyThe Company shall not give either directly or indirectlyand either by means of a loan guarantee the provision of security orotherwise any financial assistance for the purpose of or in connection withthe purchase or subscription made or to be made by any person for purchase ofany shares in the Company except in conformity with the provisions of Section67 of the Act.150. Underwriting and Brokerage Commission may be paidSubject to the provisions of Section 40 of the Act theCompany may at any time pay a commission to any person in consideration of hissubscribing or agreeing to subscribe for any shares in or debentures of theCompany or procuring or agreeing to procure subscriptions for any shares inor debentures of the Company but so that the commission shall not exceed incase of shares five percent of the price at which the shares are issued andin case of debentures two and a half percent of the price at which thedebentures are issued. Such commission may be satisfied by payment in cash orby allotment of fully or partly paid shares or debentures or partly in one wayand partly in the other.Brokerage The Company may also on any issue of shares ordebentures pay such brokerage as may be lawful.151. Interest out of CapitalInterest may be paid out of capitalWhere any shares are issued for the purpose of raising moneyto defray the expenses of the construction of any work or building or theprovision of any plant which cannot be made profitable for a lengthy periodthe Company may pay interest on so much of that share capital as is for thetime being paid up for the period at the rate and subject to the conditionsand restrictions provided by the Company Act 2013 and may charge the same tocapital as part of the cost of construction of the work or building or theprovision of plant.152. Annual ReturnsThe Company shall comply with the provisions of Sections 92of the Act as to the making of Annual Returns.153. Borrowing powers As per the provisions of Section 73 76 179 180 and otherapplicable provisions of the Act the Board of Directors may from time to timeat its discretion by resolution at a meeting of the Board and subject to theapproval of the shareholders in General Meeting accept deposits from Memberseither in advance of calls or otherwise and generally raise or borrow orsecure the payment of any sums of money for the purpose of the Company.Provided however where the moneys already borrowed (apart from temporary loansobtained from the Companys bankers in the ordinary due course of business)exceed the aggregate of the paid-up capital of the Company its free reserves(not being reserves set apart for any specific purpose) and the securitiespremium the Board shall not borrow such moneys without the consent of theCompany in General Meeting.Payment or repayment of borrowed Moneys Subject to the provisions of Article 64 hereof the paymentand repayment of moneys borrowed as aforesaid may be secured in such manner andupon such terms and conditions in all respects as the Board of Directors maythink fit by resolutions passed at a meeting of the Board and in particularby the issue of bonds or debentures of the Company whether unsecured or securedby a mortgage or charge over all or any part of the property of the Company(both present and future)

			including its uncalled capital for the time beingand debentures and other securities may be made assignable free from anyequities between the Company and the person to whom the same may be issued.Terms of issue of Debentures Any debentures or other securities may be issued orotherwise and may be issued on condition that they shall be convertible intoshares of any denomination and with any privileges and conditions toredemption surrender drawing allotment of shares and attending (but notvoting) at General Meetings. Debentures with the right to conversion into orallotment of shares shall be issued only with the consent of the Company inGeneral Meetings accorded by special resolution.Register of charges to be Kept The Board shall cause a proper Register to be kept inaccordance with the provisions of Section 85 of the Act of all charges andfloating charges affecting the property or assets of the Company or any of itsundertakings and shall cause the requirements of Sections 77 79 and 81 to 87(both inclusive) of the Act in that behalf to be duly complied with so far asthey are required to be complied with by the Board.Register of Debenture holders The Company shall if at any time it issues debentures keepa Register and Index of Debenture holders in accordance with Section 88 of theAct. The Company shall have the power to keep in any Country outside India aRegister of Debenture holders residing outside India in such manner as may beprescribed.Application to Debentures and other securities The provisions of the Articles shall apply mutatis mutandisto debentures bonds or other securities issued by the company.154. Dematerialization of Securities Definitions For the purpose of this Article Depository means a depository as defined in clause (e) ofsub-section (1) of section 2 of the Depositories Act 1996.Beneficial Owner means a person or persons whose name isrecorded in the Register maintained by a Depository under the Depository Act1996.SEBImeans the Securities and Exchange Board of Indiaestablished under section 3 of the Securities Exchange Board of India Act1992.Securities means the securities as defined in clause (h)of section 2 of the Securities Contracts (Regulation) Act 1956Dematerialization of Securities Notwithstanding anything contained in these Articles theCompany shall be entitled to dematerialize its existing securitiesrematerialize its securities held in the Depositories and or offer its freshsecurities in dematerialized form pursuant to the provisions of theDepositories Act 1996 and the rules framed there under if any.Option for investors Every person subscribing to or holding securities of theCompany shall have the option to receive securities certificates or to hold thesecurities with the Depository. Such a person who is the beneficial owner ofthe securities can at any time opt out of the Depository if permitted by thelaw in respect of any security in the manner and within the time prescribedissued to the beneficial owner the required certificate of the securities. If aperson opts to hold his securities with a Depository the Company shallintimate such Depository the details of allotment of the security and onreceipt of the information the depository shall enter in its records the nameof the allottees as the beneficial owner of the securities.Securities in Depository to be in Fungible Form All securities held by a Depository shall be dematerializedand be in fungible

		92	form. Nothing contained in Section 88 89 112 and 186 ofthe Act shall apply to a Depository in respect of the securities held by it onbehalf of the Beneficial Owners.Rights and Liabilities of Beneficial Owner (a) Notwithstanding anything to the contrary contained inthe Act or these Articles a Depository shall be deemed to be the registeredowner for the purposes of effecting transfer of ownership of security on behalfof the beneficial owners.(b) Save as otherwise provided in (a) above the Depositoryas the registered owner of the securities shall not have any voting rights orany other rights in respect of the securities held by it.(c) Every person holding securities of the Company and whosename is entered as the beneficial owner in the records of the Depository shallbe deemed to be a member of the Company. The beneficial owner of securitiesshall be entitled to all the rights and benefits and be subject to all theliabilities in respect of his securities which are held by a Depository.Service of Documents Notwithstanding anything to the contrary contained in theAct or Articles to the contrary where securities are held in a Depository therecords of the beneficial ownership may be served by such Depository on theCompany by means of electronic mode or by delivery of floppies or discs.Provisions of Articles to apply to shares held in DepositoryNothing contained in Section 56 of the Act or these Articlesshall apply to a transfer of securities effected by a transferor and transfereeboth of whom are entered as beneficial owners in the records of a Depository.Allotment of Securities dealt within a Depository Notwithstanding anything in the Act or these Articles wheresecurities are dealt with by the Depository the Company shall intimate thedetails thereof to the Depository immediately on allotment of such securities.Distinctive numbers of securities held in the depositoryMode Nothing contained in the Act or these Articles regarding thenecessity of having distinctive numbers on securities issued by the Companyshall apply to securities held with a Depository.Register and Index of Beneficial Owners The Register and Index of Beneficial Owners maintained by aDepository under the Depositories Act 1996 shall be deemed to be the Registerand Index of member and security holder for the purpose of these Articles.155. Conversion of Shares into Stock and Reconversion Sharesmay be converted into stock and reconvertedThe Company in General Meeting may convert any paid upshares into stock and when any shares shall have been converted into stock theseveral holders of such stock may henceforth transfer their respective interesttherein or any part of such interest in the same manner and subject to thesame regulations as if no such conversion had taken place or as near theretoas circumstances will admit. The Company may at any time reconvert any stockinto paid-up shares.Rights of stock holdersThe holders of stock shall according to the amount of stockheld by them have the same rights privileges and advantages as regardsdividends voting at meetings of the Company and other matters as if theyheld the shares from which the stock arose156. Audit Accounts to be auditedThe Auditors of the Company shall be appointed orreappointed by the Comptroller and Auditor General of India and theirremuneration rights and duties shall be regulated by

			Section 139 to 143 and145 to 148 of the Act.Powers of the Comptroller and Auditor General of India.The Comptroller and Auditor General of India shall have thepowers-(a) to direct the manner in which the Companys accountsshall be audited by the auditors appointed in pursuance of Article hereof andto give such auditors instruction in regard to any matter relating to theperformance of their functions as such.(b) to conduct a supplementary or test audit of thefinancial statement of the Company by such person or persons as he mayauthorize in this behalf and for the purposes of such audit to have access atall reasonable times to all accounts account books vouchers documents andother papers of the Company and to require information or additionalinformation to be furnished to any person or persons so authorized on suchmatters by such person or persons and in such form as the Comptroller andAuditor General may by general or special order direct.Comments upon or supplement to audit report by theComptroller Auditor General of India to be placed before the annualgeneral meetingThe auditors aforesaid shall submit a copy of his heraudit report to the Comptroller and Auditor General of India who shall have theright to comment upon or supplement such audit report in such manner as he maythink fit. Any such comments upon or supplement to the audit report shall beplaced before the Annual General Meeting of the Company at the same time and inthe same manner as the audit report.157. Service of DocumentsManner of Service of DocumentsA document or notice may be served or given by the Companyto any Member either through speed post registered post or through electronic mode to his registered address or(if he has no registered address in India) to the address if any in Indiasupplied by him to the Company for serving documents or notices on him. Noticeis to be sent by the company through its authorized and secured computerprogramme which is capable of producing confirmation and keeping record of suchcommunication addressed to the person entitled to receive such communication atthe last electronic mail address provided by the member.The notice may be sent through e-mail as a text or as anattachment to e-mail or as a notification providing electronic link or UniformResource Locator for accessing such notice through in-house facility or itsregistrar and transfer agent or authorise any third party agency providing bulke-mail facility.When notices or documents served on MembersWhere a document or notice is sent by post service of thedocument or notice shall be deemed to be effected by properly addressingprepaying and posting a letter containing the document or notice.When notice or notifications of availability of notice aresent by e-mail the company should ensure that it uses a system which producesconfirmation of the total number of recipients e-mailed and a record of eachrecipient to whom the notice has been sent and copy of such record and anynotices of any failed transmissions and subsequent re-sending shall be retainedby or on behalf of the company as proof of sending.Provided that the member shall provide the updated emailaddress to the company and for that company will provide an advance opportunityatleast once in a financial year to the member to register his e-mail addressand changes therein and such request may be made by only those members who havenot got their

			email id recorded or to update a fresh email id. Notice will alsobe simultaneously updated in the website of the company.By AdvertisementA document or notice advertised in a newspaper circulatingin the neighborhood of the Registered Office shall be deemed to be duly servedor sent on the day on which the advertisement appears on or to every Member whohas no registered address in India and has not supplied to the Company anaddress within India for the serving of documents on sending the notices tohim. Explanatory Statement of material facts under Section 102 need not beadvertised but it will be mentioned in the advertisement that the Statement hasbeen forwarded to the Members.On personal representatives etc.A document or notice may be served or given by the Companyon or to the persons entitled to a share in consequence of the death orinsolvency of a Member by sending it through the post in prepaid letteraddressed to them by name or by the title of representative of the deceased orassignee of the insolvent or by any like description at the address (if any)in India supplied for the purpose by the persons claimed to be entitled oruntil such an address has been so supplied by serving the document or notice inany manner in which the same might have been given if the death or insolvencyhad not occurred.To whom documents or notices must be served or givenDocuments or notices of every General Meeting shall beserved or given in same manner as herein before or to (a) every member of thecompany legal representative of any deceased member or the assignee of aninsolvent member(b) the auditor or auditors of the company and (c) everydirector of the company.Members bound by documents or notices served on or given toprevious holdersEvery person who by operation of law transfer or othermeans whatsoever shall become entitled to any share shall be bound by everydocument or notice in respect of such share which previously to his name andaddress being entered in the Register of Members shall have been duly servedon or given to the person from whom he derives his title to such sharesDocuments or notice by Company and signature theretoAny document or notice to be served or given by the Companymay be signed by a director or key managerial personnel or an officer of thecompany duly authorised by the Board in this behalf.Service of document or notice by MemberAll documents or notices to be served or given by Members onor to the Company or any officer thereof shall be served or given by sending itto the Company or Officer at the Office by post or through electronic modeunder a certificate of posting or by registered post or through email.158. Secrecy(a) Every Director Manager Auditor Treasurer Trusteemember of a committee officer servant agent accountant or other personemployed in the business of the Company shall if so required by theDirectors before entering upon his duties sign a declaration pledging himselfto observe strict secrecy respecting all transactions and affairs of theCompany with the customers and the state of the accounts with individuals andin matters relating thereto and shall by such declaration pledge himself not toreveal any of the matters which may come to his knowledge in the discharge ofhis duties except when required so to do by the Directors or by law or by theperson to whom such matters relate and except so far as may be necessary

			inorder to comply with any of the provisions in these presents contained.(b) No Member shall be entitled to visit or inspect any workof the Company without the permission of the Directors or to require discoveryof or any information respecting any details of the Companys trading or anymatter which is or may be in the nature of a trade secret mystery of tradesecret process or any other matter which may relate to the conduct of thebusiness of the Company and which in the opinion of the Directors it would bein expedient in the interest of the Company to disclose.159. Copies of Memorandum and Articles of Association to besent by the Company Copies of the Memorandum and Articles of Association of theCompany and other documents referred to in Section 17 of the Act shall be sentby the Company to every Member at his request within seven days of the requeston payment of such fees as may be prescribed.

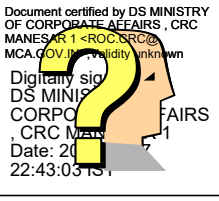
Subscriber Details

S. No.	Subscriber Details				
	***Name, Address, Description and Occupation**	**DIN / PAN / Passport number**	***Place**	**DSC**	**Dated**
1	M/s PFC Consulting Limited having its registered office a t Urjanidhi, 1, Barakhamba L ane, Connaught Place, New Delhi-110001 Through Sh. S achin Arora S/o Sh. Prem La l Arora R/o F5 1903, Superte ch Eco Village 1, Near Park, Greater Noida, 201301 (as a uthorized representative of PFC Consulting Limited)	A*G*A*4*4*	New Delhi		03/12/2024
2	Sh. Sachin Shukla S/o Sh. R aj Kumar Shukla R/o 4th Flo or, House No. 6, H1 Block, G ood Earth City Centre, south City 2, Gurgaon - 122018 (A s a Nominee of PFC Consult ing Limited) Occupation:- Se rvice	0*6*3*6*	New Delhi		03/12/2024
3	Sh. Rakesh Mohan S/o Sh. L akshman Singh R/o Flat No- 364, Sunehari Bagh Appart ment, Sector-13 Rohini New Delhi Delhi 110085 NA India (As a Nominee of PFC Cons ulting Limited) Occupation:- Service	0*6*4*2*	New Delhi		03/12/2024
4	Sh. Naveen Kumar S/o Jagd ish Chander R/o F-024, Asso tech Windsor Court, Sector 78, Noida Gautam Buddha N agar, Uttar Pradesh, 201301 (As a nominee of PFC Cons ulting Limited) Occupation - Service	1*4*7*5*	New Delhi		03/12/2024

5	Sh. Rishab Jain S/o Naveen Jain R/o T-11, first floor, Gre en Park Extension, New Delh i, 110016 (As a Nominee of PFC Consulting Limited) Oc cupation:- Service	0*4*5*6*	New Delhi		03/12/2024
6	Sh. Neeraj Singh S/o Sh. Da yashankar Singh R/o Flat C-703, The Crescent Apartmen t, Plot F-2, Sector-50, Noida, Gautam Budh Nagar, UP-201 301 (As a Nominee of PFC Consulting Limited) Occupa tion:- Service	0*6*3*9*	New Delhi		03/12/2024
7	Sh. Sanjay Kumar Nayak S/o Sh. Jagabandhu Nayak R/o K 713, Jalvayu Tower, Sector 56 Gurgaon-Haryana 12201 1 (As a Nominee of PFC Co nsulting Limited) Occupatio n:- Service	0*1*7*9*	New Delhi		03/12/2024

Signed before me						
Name Prefix *(ACA/FCA/ACS/ FCS/ACMA/ FCMA)*	***Name of the witness**	***Address, Description and Occupation**	***DIN / PAN / Passport number / Membership**	***Place**	**DSC**	**Dated**
FCS	Naresh Kum ar Sinha	121, Vinayak Ap artment, C58/1 9, Sector-62, No ida-201307, UP	1*0*	Noida		03/12/2024

For office use only:

eForm Service request number(SRN)	AB2054969
eForm filing date(DD/MM/YYYY)	06/12/2024
Name of the authorizing officer	CHARAN SINGH
This e-Form is hereby approved	
This e-Form is hereby rejected	
Date of Signing (DD/MM/YYYY)	07/12/2024

PFC CONSULTING LTD

G20 INDIA 2023
वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-95/24-25/RFP

Oct 14, 2024

To
Secretary,
Central Electricity Regulatory Commission,
6th, 7th & 8th Floors, Tower B,
World Trade Centre, Nauroji Nagar,
New Delhi – 110 029.

Subject: **Intimation about the initiation of the bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" and issuance of RFP Document.**

Dear Sir,

Ministry of Power vide Gazette Notification no. **CG-DL-E-31082024-256815** dated Aug 30, 2023, has appointed PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for the selection of Transmission Service Provider (TSP) for establishing **"North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"** in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The Request for Proposal (RFP) process has been initiated on Sept 28, 2024, with the publication of RFP notification in:

1. Hindustan Times (English) – All Edition
2. Mint (English) – All Edition
3. Hindustan (Hindi) – All Editions
4. Financial Times (Worldwide) – All Editions

The same has also been made available along with the RFP documents on the PFCCL website 'www.pfcclindia.com' w.e.f. Sept 28, 2024. It may be noted that these RFP Documents are based on the Single Stage Two Envelope (RFQ & RFP combined) based Standard Bidding Documents (SBD) issued by the Ministry of Power on August 06,

2021, and project-specific inputs furnished by Central Transmission Utility of India Limited (CTUIL) and Central Electricity Authority (CEA). The last date for submission of Responses to RFP is Dec 03, 2024.

As per the requirements of the Guidelines (Clause 4.2 of Tariff-based Competitive-bidding Guidelines for Transmission Service), we hereby inform the Commission about the initiation of the bid process for the selection of a Transmission Service Provider (TSP) for establishing a transmission system for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" We are also enclosing herewith the RFP documents for your kind information, perusal, and records, please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

PFC CONSULTING LTD

G20 भारत 2023 INDIA वसुधैव कुटुम्बकम् ONE EARTH • ONE FAMILY • ONE FUTURE

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-95/24-25/RFP

Oct 14, 2024

To
Director (Transmission),
Ministry of Power,
Shram Shakti Bhawan,
New Delhi – 110001.

Subject: **Publishing RFP notification and RFP Documents for Selection of the Transmission Service Provider for establishing the transmission system for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" on the website of MoP.**

Dear Sir,

Ministry of Power vide Gazette Notification no. **CG-DL-E-31082024-256815** dated Aug 30, 2023, has appointed PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for the selection of Transmission Service Provider (TSP) for establishing "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The bid process for the selection of a Transmission Service Provider (TSP) for establishing a transmission system for **"North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"** has been initiated with the publication of RFP notification on Sept 28, 2024 (copy of the RFP notification enclosed). The same has also been made available along with the RFP document on the PFCCL website 'www.pfcclindia.com' w.e.f. Sept 28, 2024. It may be noted that these RFP Documents are based on the Single Stage Two Envelope (RFQ & RFP combined) Standard Bidding Documents (SBD) issued by the Ministry of Power on Aug 06, 2021. The last date for submission of Responses to RFP is Dec 03, 2024.

It is requested that in line with the requirements of the Guidelines (Clause 9.2 of Tariff-based Competitive-bidding Guidelines for Transmission Service), the RFP Notice and RFP documents may be published on the website of the Ministry of Power. The soft copy of the RFP Notification and RFP documents has been mailed separately to the email address transdesk-mop@nic.in. We are also enclosing herewith the RFP documents for your kind information, perusal and records please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

STANDARD SINGLE STAGE REQUEST FOR PROPOSAL DOCUMENT

FOR

SELECTION OF BIDDER AS TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING PROCESS

TO

ESTABLISH INTER-STATE TRANSMISSION SYSTEM

FOR

NORTH EASTERN REGION EXPANSION SCHEME-XXV (NERES-XXV) PART-A

ISSUED BY

PFC CONSULTING LTD.
(A wholly owned subsidiary of Power Finance Corporation Ltd.)

Registered Office:
1st Floor, "Urjanidhi", 1, Barakhamba Lane,
Connaught Place, New Delhi-110001

September 28,2024

PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Corporate Office:
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001

Request for Proposal Document for selection of Bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission System for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" is issued by PFC Consulting Limited.

This RFP document is issued to -

M/s. _____

_____

_____

_____

_____

Signature: ……

General Manager
PFC Consulting Limited
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001
Email: pfccl.itp@pfcindia.com
Place: New Delhi
Date:

REQUEST FOR PROPOSAL NOTIFICATION

PFC Consulting Limited
(A wholly owned subsidiary of Power Finance Corporation Limited)

Corporate Office:
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001

1. The Government of India, Ministry of Power, vide its notification no. **CG-DL-E-31082024-256815** dated **30.08.2024** has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" through tariff based competitive bidding process.

2. PFC Consulting Limited (PFCCL) (hereinafter referred to as BPC) hereby invites all prospective Bidders for issue of Request for Proposal (RFP) for selection of Bidder as Transmission Service Provider (TSP) on the basis of international competitive bidding in accordance with the "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under section – 63 of The Electricity Act, 2003 and as amended from time to time. The responsibility of the TSP would be to establish the following Inter-State Transmission System – "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

S. No	Transmission System for North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	
	Name of Transmission Element	**Scheduled COD in months from Effective Date**
1.	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) • 420 kV, 1x125 MVAr Bus Reactor: 2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon	**36 months from effective date**

	(POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] **iii)** 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] **Additional space for future expansion:** • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 400 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 220 kV line bays: 10 Nos. • 4x330 MVAr, 765kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays • 765 kV Bus Sectionaliser: 1 set • 400 kV Bus Sectionaliser: 1 set • 220 kV Bus Sectionaliser: 1 set • 220 kV Bus Coupler bays: 2 No. • 220 kV Transfer Bus Coupler bays: 2 No.	
2.	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	
3.	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar	

	(ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	
4.	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s • 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x80 MVAr - 2 Nos	
5.	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line • 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.	

Note:

(i) *#Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to*

coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

3. The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with the provisions of the Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.

4. **Transmission License**: The TSP shall obtain the Transmission License from the Commission.

5. **Bidding Process:** The Transmission Service Provider shall be selected through tariff based competitive bidding process for the Project based on meeting stipulated Qualification Requirements prescribed in Clause 2.1 of Section 2 of RFP and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. The selection of the TSP shall be subject to it obtaining Transmission License from the Commission, which, after expiry, may be further extended by such period as deemed appropriate by the Commission under powers vested with it to amend the conditions of the Transmission License.

   The entire bidding process shall be conducted on electronic platform created by MSTC Limited.

   The Bid shall be a single stage two envelope bid comprising the Technical Bid and the Financial Bid. The Bidders shall submit the Bid online through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

   The Technical Bid shall be opened first and the Financial Bid of only the bidder who have qualified in the Technical Bid shall be opened. The Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order. The Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

6. The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of _____ [Insert name of SPV] along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

   The _____ [Insert name of SPV], of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

7. **Commencement of Transmission Service**: The Bidder shall have to commence Transmission Service in accordance with the provisions of the Transmission Service Agreement.

8. **Transmission Charges**: The Transmission Charges shall be payable by the Designated ISTS Customers in Indian Rupees through the CTU as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time. Bidders shall quote the Transmission Charges as per the pre-specified structure, as mentioned in the RFP.

9. **Issue of RFP document:** The detailed terms and conditions for qualification and selection of the Transmission Service Provider for the Project and for submission of Bid are indicated in the RFP document. All those interested in purchasing the RFP document may respond in writing to **General Manager, Tel. +91 11 23443912, Fax +91 11 23443990, Email: pfccl.itp@pfcindia.com** at the address given in para 12 below with a non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US$ 7000/- (US Dollars Seven Thousand Only) plus 18% GST, to be paid via electronic transfer to the following Bank Account:

Bank Account Name	**: PFC Consulting Limited**
Account No.	**: 000705036117**
Bank Name	**: ICICI Bank**
IFSC	**: ICIC0000007**
Branch	**: Connaught Place, New Delhi-110001**

latest by 02.12.2024. Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

The RFP document shall be issued to the Bidders on any working day from 28/09/2024 to 02/12/2024 between 1030 hours (IST) to 1600 hours (IST). The BPC, on written request and against payment of the above mentioned fee by any Bidder shall promptly dispatch the RFP document to such Bidder by registered mail/ air mail. BPC shall, under no circumstances, be held responsible for late delivery or loss of documents so mailed.

10. **Receipt and opening of Bid:** The Bid must be uploaded online through the electronic bidding platform on or before 1500 hours (IST) on 02/12/2024 . Technical Bid will be opened by the Bid Opening Committee on the same day at 1530 hours (IST) in the office of Central Electricity

Authority, in the online presence of Bidders' representatives who wish to attend. If the Bid Deadline is a public holiday at the place of submission of Bid, it shall be opened on the next working day at the same time and venue. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause **3.2** to **3.4** shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer.

11. The RFP document is not transferable. BPC reserves the right to reject all Bid and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

12. **Nodal person for enquiries and clarifications**

All correspondence and clarification in respect of RFP document shall be addressed to:

General Manager
PFC Consulting Limited
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi - 110001, India
Tel. + 91-11-23443912
Fax + 91-11-23443990
Email: pfccl.itp@pfcindia.com

DISCLAIMER

1. This Request for Proposal (RFP) document is not an agreement or offer by the BPC to the prospective Bidders or to any other party. The purpose of this RFP document is to provide interested parties with information to assist the formulation of their Bid. The RFP document is based on material and information available in public domain.

2. This RFP, along with its Annexures, is not transferable and the information contained therein are to be used only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project in accordance with this RFP, this RFP must be kept confidential.

3. While this RFP has been prepared in good faith, neither the BPC nor its employees or advisors/consultants make any representation or warranty expressed or implied as to the accuracy, reliability or completeness of the information contained in this RFP. The Bidders shall satisfy themselves, on receipt of the RFP document, that the RFP document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of this RFP document on or before the date & time mentioned in this RFP, it shall be considered that the issued document, complete in all respects, has been received by the Bidders.

   This bidding process is in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India under Section 63 of the Electricity Act, 2003. Revisions or amendments in these Bidding Guidelines may cause the BPC to modify, amend or supplement this RFP document, including the RFP Project Documents to be in conformance with the Bidding Guidelines.

4. This RFP document includes statements, which reflect various assumptions arrived at by BPC in order to give a reflection of current status in the RFP. These assumptions should not be entirely relied upon by Bidders in making their own assessments. This RFP document does not purport to contain all the information each Bidder may require and may not be appropriate for all persons. It is not possible for BPC to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP document. Certain Bidders may have a better knowledge of the Project than the others. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.

5. Neither BPC nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP document.

6. Neither BPC, its employees nor its consultants will have any liability to any Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Project, the information supplied by or on behalf of BPC or its employees, any consultants or otherwise arising in any way from the qualification process for the said Project.

7. By participating in the bidding process, each of the Bidder shall have acknowledged and accepted that it has not been induced to enter into such agreement by any representation or warranty, expressed or implied, or relied upon any such representation or warranty by or on behalf of BPC or any person working in the bidding process.

8. BPC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement this RFP document. Such updations, amendments or supplements, if any, will however be circulated to the Bidders not later than 15 days prior to the last date for submission of Bid.

9. Each Bidder unconditionally agrees, understands and accepts that the BPC reserves the rights to accept or reject any or all Bids without giving any reason. Neither the BPC nor its advisers shall entertain any claim of any nature, whatsoever, including without limitations, any claim seeking expenses in relation to the preparation of Bids.

10. This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.

INDEX

SECTION	CONTENTS	PAGE NO.
	DEFINITIONS	10
1.	INTRODUCTION	15
2.	INFORMATION AND INSTRUCTIONS FOR BIDDERS	20
3.	EVALUATION OF THE TECHNICAL AND FINANCIAL BID	48
4.	ANNEXURES FOR BID	54
	ANNEXURES	
1	Format for the Covering Letter	56
2	Format for Letter of Consent from Consortium Members	60
3	Format for evidence of authorized signatory's authority (Power of Attorney)	62
4	Format for Power of Attorney to be provided by each of the other members of the Consortium in favor of the Lead Member	64
5	Format for Bidder's composition and ownership structure and Format for Authorization	66
6	Format for Consortium Agreement	69
7A	Format for Qualification Requirement – Net worth	74
7B	Format for Technical Requirement	77
7C	Format for Technical and Financial Requirement – Relationship & Equity Shareholding	80
7D	Format for Additional Information for verification of Financial and Technical Capabilities of Bidders	82
8	Format for Undertaking and Details of Equity Investment	85
9	Format for Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.	89
10	Format for Undertaking by Technically/Financially Evaluated Entity/Ultimate Parent Company	91
11	Format for Board Resolution	93
11A	Illustration for Applicable Board Resolution Requirements under Clause 2.5.2	96
12	Format for illustration of Affiliates	98
13	Format for disclosure	99
14	Format For Bid Bond	100

SECTION	CONTENTS	PAGE NO.
14 A	Format for Bid Security Declaration	102
15	Format for Contract Performance Guarantee	104
16	Format for Checklist for Technical Bid Submission Requirements	106
17	List of Banks	109
18	Grid Map of the Project	110
19	Format for Clarifications / Amendments on the RFP / RFP Project Documents	111
20	Formats For RFP Project Documents	112
21	Format For Financial Bid	113
22	Format of Affidavit	114
	Annexure A	116
	Annexure-B	117
	Annexure-C	125

DEFINITIONS

Any capitalized term, used but not defined in this RFP, shall have the meaning ascribed to such term in the RFP Project Documents, or the Bidding Guidelines, in that order. In absence of availability of definitions in the foregoing references, the capitalized terms shall be interpreted in accordance with the Electricity Act 2003, Grid Code or any other relevant electricity law, rule or regulation prevalent in India, as amended or re-enacted from time to time, in that order.

The following terms are defined for use in this RFP:

"Acquisition Price" shall have the same meaning as defined in the Share Purchase Agreement;

"Affiliate" shall mean a company that either directly or indirectly

i. controls or
ii. is controlled by or
iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and "**control**" means ownership by one entity of at least twenty six percent (26%) of the voting rights of the entity. As an illustration a chart is annexed hereto as Annexure – 12;

"Bid" shall mean Technical Bid and Financial Bid (Initial Offer and Final Offer) submitted by the Bidder, in response to this RFP, in accordance with the terms and conditions thereof;

"Bidder" shall mean either a single company (including its permitted successors and legal assigns) or a Consortium of companies (including its permitted successors and legal assigns) submitting a Bid in response to this RFP. Any reference to the Bidder includes Bidding Company, Bidding Consortium/ Consortium, Member in a Bidding Consortium and Lead Member of the Bidding Consortium jointly and severally, as the context may require;

"Bidding Company" shall refer to such single company (including its permitted successors and legal assigns) that has submitted a Bid for the Project;

"Bidding Consortium/ Consortium" shall refer to a group of companies (including their permitted successors and legal assigns) that has collectively submitted a Bid for the Project;

"Bidding Guidelines" shall mean the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of Electricity Act as amended from time to time;

"Bid Bond" shall mean the unconditional and irrevocable bank guarantee for Rupees 4.72 Crore (Rs. Four Crore Seventy Two Lakh only), to be submitted along with the Technical Bid by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14**;**

"Bid Deadline" shall mean the last date and time for submission of online Bid in response to this RFP, specified in Clause 2.7.1;

"Bid Process Coordinator or BPC" shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

"Bid Security Declaration" shall mean the declaration to be submitted along with the Technical Bid by the Bidder in lieu of the Bid Bond, as per the format prescribed in Annexure 14A [only applicable for projects for which RFP has been issued before 31.12.2021]**;**

"CEA" shall mean the Central Electricity Authority constituted under Section - 70 of the Electricity Act;

"Commission" or "CERC" shall mean the Central Electricity Regulatory Commission of India constituted under Section-76 of The Electricity Act, 2003 and any successors and assigns;

"Conflict of Interest" A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder.

Provided that if two or more bidders in the bidding process have formed a Joint Venture Company or Consortium to execute another project, the Bidders will not be considered to have Conflict of Interest;

"Commercial Operation Date (COD)" shall mean the date as per Article 6.2 of the Transmission Service Agreement;

"Consents, Clearances, Permits" shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and performance of Project including without any limitation on the construction, ownership, operation and maintenance of the transmission lines and/or sub-stations;

"Contract Performance Guarantee" shall have the meaning as per Clause 2.12 of this RFP;

"Contract Year" shall mean the period beginning on the Scheduled COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that:

(i) the last Contract Year shall end on the last day of the term of the Transmission Service Agreement;

"Infrastructure sector" shall mean such sectors notified by Department of Economic Affairs in its Gazette Notification no. 13/1/2017-INF dated 14th November, 2017 and as amended from time to time;

"CTU/Central Transmission Utility" shall have same meaning as defined in the Electricity Act, 2003;

"Designated ISTS Customers" or "DICs" shall have the meaning as ascribed in Regulation 2(l) of Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulation 2020 and as amended or modified from time to time;

"Effective Date" shall have the meaning as ascribed thereto in the Transmission Service Agreement;

"Element" shall mean-each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of the Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS which will be owned, operated and maintained by the concerned ISTS Licensee, and which may have a separate scheduled COD as per Schedule 2 of the Transmission Service Agreement and may have a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of the Transmission Service Agreement;

"National Committee on Transmission" shall mean the committee constituted by the Ministry of Power, Government of India in terms of the "Guidelines for Encouraging Competition in Development of Transmission Projects", as notified from time to time;

"Final Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest "Initial Offer" shall be deemed to be the Final Offer**;**

"Financial Bid" shall mean the Initial Offer and Final Offer, containing the Bidder's Quoted Transmission Charges, as per the format at Annexure – 21 of this RFP**;**

"Financially Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in Clause **2.1.3** hereof;

"Government" shall mean the Central Government;

"Grid Code" / "IEGC" or **"State Grid Code"** shall mean the Grid Code specified by the Central Commission under clause (h) of sub-section (1) of Section 79 of the Electricity Act and/or the State Grid Code as specified by the concerned State Commission referred under clause (h) of sub-section (1) of Section 86 of the Electricity Act as applicable;

"Transmission Service Agreement" or **"TSA"** shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis;

"Initial Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform along with the Technical Bid**;**

"Inter State Generating Station" or "ISGS" shall mean a Central / other generating station in which two or more states have shares and whose scheduling is to be coordinated by the Regional Load Despatch Centre;

"Inter-State Transmission System" shall have same meaning as defined in the Electricity Act, 2003;

"Lead Member of the Bidding Consortium" or "Lead Member" shall mean a company who commits at least twenty six percent (26%) equity stake in the Project, meets the technical requirement as per Clause 2.1.2 and so designated by other Member(s) in Bidding Consortium;

"Letter of Intent" or "LoI" shall mean the letter to be issued by the BPC to the Bidder, who has been identified as the selected bidder, for award of the Project to such Bidder;

"Member in a Bidding Consortium/Member" shall mean each company in the Bidding Consortium;

"MOP" shall mean the Ministry of Power, Government of India;

"MOEF" shall mean the Ministry of the Environment and Forests, Government of India;

"Nodal Agency" shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

"Technical Bid" shall mean the bid submitted online through the electronic bidding platform, containing the documents as listed out in Clause 2.5.2 of this RFP;

"Parent Company" shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

"Qualification Requirements" shall mean the qualification requirements as set forth in Section-2, Clause 2.1 of this RFP;

"Quoted Transmission Charges" shall mean the quoted single annual Transmission Charges submitted online through the electronic bidding platform by the Bidder as part of its Financial Bid as per the format in Annexure – 21 of this RFP;

"RFP" shall mean Request for Proposal document along with all schedules, formats, annexure and RFP Project Documents attached hereto, issued by BPC for tariff based competitive bidding process for selection of bidder who will acquire the TSP through e-reverse bidding to execute the Project, and shall include any modifications, amendments or alterations or clarifications thereto;

"RFP Project Documents" shall mean the following documents to be entered into in respect of the Project, by the parties to the respective agreements:

a. Transmission Service Agreement (TSA),
b. Share Purchase Agreement,
c. Agreement(s) required, if any, under Central Electricity Regulatory Commission

(Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time and

d. Any other agreement, as may be required;

"Scheduled COD" shall have the meaning as ascribed hereto in Clause 2.6 of this RFP;

"Statutory Auditor" shall mean the auditor appointed under the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) or under the provisions of any other applicable governing law;

"Share Purchase Agreement" shall mean the agreement **PFC Consulting Limited**, _____[Insert Name of SPV] and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the _____[Insert Name of SPV] for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

"Successful Bidder" or **"Selected Bidder"** shall mean the Bidder selected pursuant to this RFP to acquire one hundred percent (100%) equity shares of _____[Insert Name of SPV], along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the Transmission Service Agreement and other RFP Project Documents;

"Survey Report" shall mean the report containing initial information regarding the Project and other details provided as per the provisions of Clause 1.6.2.1.1 of this RFP;

"Technical Bid" shall mean the bid submitted online through the electronic bidding platform, containing the documents as listed out in Clause 2.5.2 of this RFP;

"Technically Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in Clause 2.1.2 hereof;

"Transmission Charges" shall mean the Final Offer quoted by Selected Bidder and adopted by the Commission, and as computed in terms of the provisions of Schedule 4 of the TSA, payable to the ISTS Licensee by the Designated ISTS Customers, and collected / disbursed by the CTU, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time;

"Transmission License" shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act, 2003;

"Transmission Service Agreement" or **"TSA"** shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis;

"Transmission Service Provider" or "TSP" shall mean _____ _____[Insert name of project specific SPV] which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder;

"Ultimate Parent Company" shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the

Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity.

SECTION – 1

INTRODUCTION

SECTION 1

1. INTRODUCTION

1.1 The Government of India, Ministry of Power, vide its notification no. **CG-DL-E-31082024-256815** dated 30.08.2024 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" through tariff based competitive bidding process.

The BPC hereby invites Bids from all prospective Bidders in accordance with this Request for Proposal (RFP) to select prospective Transmission Service Provider (TSP) in accordance with the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act. The BPC shall select the Bidder having the prescribed technical and financial capability to become TSP and be responsible for establishing the Project in the state(s) of Assam. The TSP will make the Project available against payment of Transmission Charges, as adopted by the Commission, payable to the TSP, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

1.2 The TSP will be required to establish the following Inter State Transmission System for **North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A** (hereinafter referred to as 'Project') on build, own, operate and transfer basis, and to provide transmission service.

S. No.	Inter State Transmission System for North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	
	Name of Transmission Element	**Scheduled COD in Months from Effective Date**
1.	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) • 420 kV, 1x125 MVAr Bus Reactor: 2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon	

	(POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] **iii)** 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] **Additional space for future expansion:** • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 400 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 220 kV line bays: 10 Nos. • 4x330 MVAr, 765kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays	

	• 765 kV Bus Sectionaliser: 1 set • 400 kV Bus Sectionaliser: 1 set • 220 kV Bus Sectionaliser: 1 set • 220 kV Bus Coupler bays: 2 No. • 220 kV Transfer Bus Coupler bays: 2 No.	
2.	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	
3.	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	
4.	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s • 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x80 MVAr - 2 Nos	
5.	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line • 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos.	

	• Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.	

Note:

(ii) *#Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.*

1.3 Project Description

Bongaigaon substation is gateway to North Eastern Region (NER) grid as all synchronous interconnections to NER originate from this substation. Bongaigaon substation is a flood affected area and any mishap at the substation could jeopardise power supply situation in NER as all existing ER-NER AC interconnections are only through Bongaigaon substation. Thus, in order to improve reliability and security of power supply to NER, establishment of a 2nd 400 kV AC node for interconnection with National Grid has been planned at Bornagar in Assam. This substation is essential to create an alternative path for ER-NER interconnection.

The Bornagar substation is being initially planned as 400 kV switching station with provision to establish 765 kV and 220 kV levels in future as per system requirements. The substation is planned to be set up through LILO of both circuits of Bongaigaon – Balipara 400 kV D/C (Quad) line and extension of the existing Alipurduar – Bongaigaon 400 kV D/C (Quad) line from Bongaigoan S/s to Bornagar S/s so as to form Alipurduar – Bornagar 400 kV D/C (Quad) line. This would help in enhancing the stability and reliability of the NER grid and creating an alternate ER-NER path.

The subject scheme was agreed in the 32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER) held on 26-06-2024. The scheme was further deliberated and approved for implementation through TBCB route in the 21st meeting of National Committee on Transmission (NCT) held on 06-08-2024.

NERES-XXV Part-B comprising of *"Conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/C line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement."* is being taken up by POWERGRID in matching timeframe of NERES-XXV Part-A.

1.4 Transmission Grid Map

Transmission Grid Map indicating the location of the Project is enclosed as Annexure 18 of this RFP for information and reference of the Bidders**.**

1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of _____[Insert name of SPV] along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The _____[Insert name of SPV], of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

1.6 Brief Scope of Work

1.6.1 Scope of Transmission Service Provider

The TSP's scope of work for the Project shall comprise, but not necessarily be limited to the following:

1.6.1.1 Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning.

Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed

by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.

1.6.1.2 The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.

1.6.1.3 The TSP shall ensure timely completion of entire scope of Project in all respects and its operation and maintenance, as shall be specified in the RFP documents.

1.6.1.4 The TSP shall seek Transmission License from the Commission, as per the provisions of the Electricity Act and regulations made thereunder.

1.6.1.5 The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of _____ [Insert name of SPV]. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).

1.6.2 **Scope of Bid Process Coordinator (BPC)**

BPC's scope of work is briefly outlined hereunder:

1.6.2.1 The BPC has initiated development of the Project and shall be responsible for the tasks in this regard as specified hereunder:

1. Provide to the Bidders a Survey Report for the Project at least forty five (45) days prior to the Bid Deadline. The Survey Report shall include the suggested route with approximate route length, type of terrain likely to be encountered and its likely implication in terms of Right of Way (ROW), statutory clearances, location of substations or converter stations and land area to be acquired for the substation or converter station.

2. To obtain approval for laying of overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.

3. To initiate acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations, if required.

4. To initiate process of seeking forest clearance, if required

5. The BPC shall intimate to the Bidders, the Acquisition Price payable by the Selected Bidder to the **PFC Consulting Limited** for the acquisition of one hundred percent (100%) of the equity shareholding of _____ [Insert Name of SPV], along with all its related assets and liabilities at least twenty (20) days prior to the Bid Deadline.

6. The BPC shall ensure issuance of all finalized RFP Project Documents, at least fifteen (15) days prior to the Bid Deadline.

Provided that for any delay in meeting the above obligations of the BPC within the specified time period above, the Bid Deadline as per Clause 2.7.1 shall be extended on a day for day basis.

1.6.2.2 The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain Consents, Clearances and Permits.

1.7 All costs (including direct and indirect) incurred by the BPC/ project specific SPV in connection with the activities concerning the Project shall be recovered from the TSP, which shall be included in the Acquisition Price.

1.8 The Project is required to be completed progressively in accordance with the schedule prescribed in this RFP.

1.9 A company under the Companies Act, 2013 by the name …… [Insert name of company] has been incorporated to initiate the activities for execution of the Project. The said company shall be acquired by the successful Bidder as per terms and conditions as may be prescribed in RFP.

1.10 The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.

1.11 All Bidders are required to submit their Bid in accordance with the instructions set forth in this RFP.

1.12 Once the Successful Bidder is selected, the details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project, shall be handed over to the Successful Bidder on as is where basis, so that it may take further actions to obtain all necessary Consents, Clearances and Permits and the TSP shall not be entitled for any extensions in the Scheduled COD of the Project except as provided for in the TSA.

1.13 The assets of the Project shall be made available on a commercial basis as per the terms and conditions of the Transmission Service Agreement and Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

SECTION – 2

INFORMATION AND INSTRUCTIONS FOR BIDDERS

SECTION – 2

2. INFORMATION AND INSTRUCTIONS FOR BIDDERS

2.1 Qualification Requirements

2.1.1 The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.

Besides, Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.

2.1.2 **Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium**

The Bidder must fulfill any one of the following technical requirements:

(i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than **Rs. 500 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1**).** However, the capital expenditure of each project shall not be less than **Rs. 100 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, capital expenditure incurred on projects that have been commissioned/completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity. In case a clearly identifiable part of a project has been put into commercial operation, the capital expenditure on such part of the project shall be considered. The Technically Evaluated Entity must have either executed such projects itself or must have held directly or indirectly at least twenty six percent (26%) of the shareholding in the company that has executed the project(s) from

the date of financial closure of the project(s) till the time of commissioning/completion of such project(s).

OR

(ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than **Rs. 500 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. However, the payment received from each project shall not be less than **Rs. 100 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, payments received on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity. For the avoidance of doubt, construction works shall not include cost of land, supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project. Further, in cases where different individual contracts are signed between same entities for the same project, the cumulative payments received under such individual contracts shall be considered for meeting the qualification requirement.

The Technically Evaluated Entity may be the Bidding Company or the Lead Member of a Consortium or an Affiliate or Parent of such Bidding Company or the Lead Member, as the case may be.

Bidders shall furnish documentary evidence duly certified by authorized signatory of the Bidder who has been issued Power of Attorney in support of their technical capability as defined in Clause 2.1.2 of this RFP.

2.1.3 **Financial requirement to be met by the Bidding Company/Bidding Consortium**

2.1.3.1 The Bidder must fulfill following financial requirements:

A. Networth:

Networth should be not less than Rs**. 250 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1**)** computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.

Note: Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Technical Bid. Bidders shall furnish prescribed Annexure 7 (A) duly certified by authorized

signatory of the Bidder who has been issued Power of Attorney and the Statutory Auditor and separate computation sheet for Networth duly certified by Statutory Auditor in support of their financial capability as defined in Clause 2.1.3 of this RFP.

2.1.3.2 The Networth shall be computed in the following manner by the Bidder:

A. Networth

=	Equity share capital
Add:	Reserves
Subtract:	Revaluation Reserves
Subtract:	Intangible Assets
Subtract:	Miscellaneous expenditures to the extent not written off and carry forward losses

2.1.3.3 If the Technical Bid is submitted by a Bidding Consortium the financial requirement shall be met individually and collectively by all the Members in the Bidding Consortium. The financial requirement to be met by each Member of the Bidding Consortium shall be computed in proportion to the equity commitment made by each of them for investment in the Project.

2.1.4 The Bidder may seek qualification on the basis of technical and financial capability of its Parent and/ or its Affiliate(s) for the purpose of meeting the Qualification Requirements. However, in the case of the Bidder being a Consortium, the Lead Member has to meet the technical requirement on its own or by seeking the technical capability of its Parent and/or its Affiliate(s). Authorization for use of such technical or financial capability shall have to be provided from its Parent and/or Affiliate(s) as per Annexure 9. The technical and financial capability of a particular company/ particular project, including its Parents and/or Affiliates, shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium/ Bidding Company. However, development and construction experience of a particular project may be used by more than one company.

The determination of the relationship of Parent or Affiliate with the Bidding Company or with the Member of the Bidding Consortium, including the Lead Member, shall be on the date at the most seven (7) days prior to the last date of submission of the Bid. Documentary evidence to establish such relationship shall be furnished by the Bidder along with the Technical Bid.

If the Technically Evaluated Entity and/or Financially Evaluated Entity is an entity other than the Bidding Company or a Member in a Bidding Consortium, the Bidding Company or Member relying on such Technically Evaluated Entity and/or Financially Evaluated Entity will have to submit a legally binding undertaking supported by a board resolution from the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, that all the equity investment obligations of the Bidding Company or the Member of the Consortium shall be deemed to be equity investment obligations of the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, and in the event of any default the same shall be met by such evaluated entity or by or the Ultimate Parent Company. The Bidding Company or the Consortium Member shall have to provide information and documents relating to its relationship with such

Technically Evaluated Entity and/or Financially Evaluated Entity including details about the equity shareholding between them as per Annexure 7(C).

2.1.5 A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium (including the Lead Member). It is further clarified that any of the Parent/ Affiliate/Ultimate Parent of the Bidder/ Member in a Bidding Consortium shall not separately participate directly or indirectly in the same bidding process. Further, if any Bidder is having a Conflict of Interest with other Bidders participating in the same bidding process, the Bids of all such Bidders shall be rejected.

2.1.6 Notwithstanding anything stated above, BPC reserves the right to verify the authenticity of the documents submitted for meeting the Qualification Requirements and request for any additional information and documents. BPC reserves the right at its sole discretion to contact the Bidder's bank and project references and verify the Bidder's information and documents for the purpose of bid evaluation.

2.1.7 The Qualified Bidder(s) will be required to continue to maintain compliance with the Qualification Requirements throughout the bidding process and till execution of the Transmission Service Agreement. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the execution of the Transmission Service Agreement. Failure to comply with the aforesaid provisions shall make the Bid liable for rejection at any stage.

2.1.8 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project. Failure to comply with the aforesaid provisions shall be dealt as per provisions of Transmission Service Agreement.

2.1.9 On the Bid Deadline, for the Bidder to be eligible to participate in the bidding process:

a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel should not have been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc or the United Nations or any of its agencies; or

b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors should not have been convicted of any offence in India or abroad.

In case any investigation is pending against the Bidder, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Bidder /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed while submitting the Bid.

The Bidders shall confirm the above though a notarized affidavit as per Annexure 22.

2.2 Submission of Bid by the Bidder

2.2.1 The information and documents in Technical Bid will be submitted by the Bidder as per the formats specified in Section – 4 (Formats for RFP) of this document

2.2.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures/ pamphlets. Non-adherence to formats and/ or submission of incomplete information may be a ground for declaring the Technical Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of Bidder.

2.2.3 The Technical Bid shall contain unconsolidated/consolidated audited annual accounts (consisting of unabridged Balance Sheet, Profit and Loss Account, profit appropriation account, Auditors Report, etc.), as the case may be, of Bidding Company or each Member in Consortium including Lead Member or the Financially Evaluated Entity for the last three (3) financial years immediately preceding the last date for submission of Bid for the purpose of calculation of Networth.

In case the annual accounts for the financial year immediately preceding the Bid Deadline is not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, the Bidder shall provide the audited annual accounts for the three (3) financial years preceding the financial year as above for which the annual accounts have not been audited.

2.2.4 <u>Bid submitted by a Bidding Consortium:</u>

2.2.4.1 The Technical Bid shall contain a legally enforceable Consortium Agreement entered amongst the Members in the Bidding Consortium, designating one of the Members to be the Lead Member (as per Annexure 6). There shall be only one Lead Member which shall continue to hold twenty six percent (26%) equity in the TSP and cannot be changed upto one (1) year from the Commercial Operation Date (COD) of the Project. Each Member in Bidding Consortium shall duly sign the Consortium Agreement making it liable for raising the required funds for its respective equity investment commitment as specified in the Consortium Agreement. In absence of Consortium Agreement, the Technical Bid will not be considered for evaluation and will be rejected.

Provided that the Lead Member of the Bidding Consortium will be required to be liable to the extent of 100% of the total proposed commitment of equity investment of the Bidding Consortium i.e. for both its own equity contribution as well as the equity

contribution of other Members.

Provided further that the Consortium Agreement shall not be amended without the explicit approval of the BPC.

The Lead Member of the Consortium will be the single point of contact for the purposes of the bid process before the date of signing of Share Purchase Agreement. Settlement of any dispute amongst the Consortium Members shall not be the responsibility of the BPC and/or the CTU and the BPC and/or the CTU shall not bear any liability whatsoever on this account.

2.2.4.2 The Lead Member should designate at the most two persons to represent the Consortium in its dealings with the BPC. The person(s) designated by the Lead Member should be authorized through a Power of Attorney (as per Annexure 3) to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical Bid on behalf of the Consortium, etc. The Bidding Consortium shall provide board resolutions from their respective Boards for committing their respective portion of equity requirement for the Project. Additionally, the Lead member shall provide a Board resolution committing to make good any shortfall in the equity for the project, in case of any member not meeting its equity commitment.

2.2.4.3 The Technical Bid should also contain signed Letter of Consent (as per Annexure 2) from each Member in Consortium confirming that the entire Technical and Financial Bids has been reviewed and each element of the Technical and Financial Bids is agreed to by them including investment commitment for the Project.

In addition, the Technical Bid should also contain Board Resolution from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats.

2.2.5 Bid submitted by a Bidding Company

2.2.5.1 The Bidding Company should designate at the most two persons to represent the Bidding Company in its dealings with BPC. The person(s) should be authorized to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical and Financial Bids etc. The Bidding Company should submit, along with Technical Bid, a Power of Attorney (as per Annexure 3), authorizing the signatory of the Technical and Financial Bids. The Bidding Company shall submit the board resolution committing 100% of equity requirement for the Project, in the Technical Bid.

2.3 Clarifications & Pre-Bid Meeting

2.3.1 The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time mentioned in Clause 2.7.2. For any such clarifications or amendments, the Bidders should adhere to the format as per Annexure – 19.

2.3.2 Only those Bidders or their authorized representatives, who have purchased the RFP

documents are invited to attend the pre-bid meeting(s), which will take place on date as specified in Clause 2.7.2, or any such other date as notified by the BPC. The time and address of this would be intimated later.

2.3.3 The purpose of the pre-bid meeting will be to clarify any issues regarding the RFP, including in particular, issues raised in writing by the Bidders as per the provisions of Clause 2.3.1.

2.3.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

2.3.5 The BPC is not under any obligation to entertain / respond to suggestions made or to incorporate modifications sought for.

2.3.6 In case Bidders need any further clarifications not involving any amendments in respect of final RFP, they should ensure that request for such clarification is submitted through e-mail to the BPC at least ten (10) days prior to the Bid Deadline as mentioned in Clause 2.7.1. The BPC may issue clarifications only, as per its sole discretion, which is considered reasonable by it. Any such clarification issued shall be sent to all the Bidders to whom the RFP has been issued. Clarifications sought after this date shall not be considered in any manner and shall be deemed not to have been received. There shall be no extension in Bid Deadline on account of clarifications sought as per this clause 2.3.6.

2.4 Amendment of RFP

2.4.1. At any time before the timeline mentioned in Clause 2.7.1, the BPC may, for any reason, whether at its own initiative or in response to clarifications requested by any Bidder modify or amend the RFP, including the timelines specified in Clause 2.7.2 by issuance of addendum/modification/errata and/or revised document. Such document shall be notified in writing through a letter or fax or e-mail to all the entities to whom the RFP has been issued and shall be binding on them. In order to ensure that Bidders have reasonable time to take the modification into account in preparing their Bid, or for any other reasons, BPC may at its discretion, extend the due date for submission of Bid. Late receipt of any addendum/modification/errata and/or revised document will not relieve the Bidder from being bound by that modification.

2.4.2. All modifications shall become part of the terms and conditions of this RFP. No interpretation, revision or communication regarding this RFP is valid, unless made in writing.

2.4.3. The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be binding on them.

2.5 The Bidding Process

The entire bidding process shall be conducted on electronic bidding platform created by **MSTC Limited**. The Bid shall comprise of the Technical Bid and the Financial Bid. The Bidders shall submit the Technical Bid & Financial Bid through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be

required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve responsiveness check, technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause **3.2** to **3.4** shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer. The BPC shall also upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification. Also, the Financial Bids of Qualified Bidders shall be opened after at least 24 hours from the date of declaration of the Technically Qualified Bidders.

The Financial Bid will comprise of two rounds. In the first round the Initial Offer (submitted online along with the Technical Bids) of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP. The Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

Provided however, in case only one Bidder remains after the evaluation of Technical Bid as per Clause 3.2, 3.3 and Clause 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of qualified Technical Bids is between two and four, then each of the qualified Bidder shall be considered as "Qualified Bidders".

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all the Qualified Bidders who share the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic e-reverse auction stage. In case 50% of the ranks (with any fraction rounded off to higher integer) is having less than 4 (four) Bidders and the rank of the fourth (4^{th}) Bidder is shared by more than one (1) Bidder, then all such Bidders who share the rank of the fourth (4^{th}) Bidder shall qualify to participate in the electronic reverse auction.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the

last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The technical details with respect to access to such electronic platform are provided in Annexure-A (Technical Details with respect to electronic reverse auction).

In case of any technical clarification regarding access to the electronic reverse auction platform or conduct of the auction process, the Bidders may contact MSTC directly at the address provided in Annexure-A.

2.5.1 Bid Formats

The Bids in response to this RFP will be submitted online through the electronic bidding platform by the Bidders in the manner provided in Clause 2.9. The Bids shall comprise of the following:

2.5.2 Technical Bid comprising of:

1. Covering Letter (as per prescribed format enclosed as **Annexure 1**);

2. Letter of Consent from Consortium Members in **Annexure 2;**

3. Power of attorney issued by the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing the Bid, in the format attached hereto as **Annexure 3**.

   Additionally, in case of a Bidding Consortium, the power of attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in as per format attached hereto as **Annexure 4**. Further, the Lead Member shall furnish Board resolution(s) from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA and signing of the requisite formats.

   Provided that in the event the Bidding Company or the Lead Member of the Consortium or any Member of the Bidding Consortium, as the case may be, is a foreign entity, it may issue Board resolutions in place of power of attorney for the purpose of fulfilling these requirements.

4. Bidder's composition and ownership structure in **Annexure 5**

5. Format for Authorization submitted in Non-Judicial stamp paper duly notarized as per **Annexure 5** from the Bidding Company / each Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.

6. In case of Bidding Consortium, the Consortium Agreement shall be provided in as per format attached hereto as **Annexure 6**

7. Format of Qualification Requirement (**Annexures 7A, 7B, 7C and 7D)**

8. Bidders Undertakings and details of equity investment in Project (as per prescribed formats 1 and 2 of **Annexure 8**);

9. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium **(Annexure 9)**.

10. Undertaking from the Technically / Financially Evaluated Entity(ies) **OR** Undertaking from the Ultimate Parent Company, for total equity investment commitment, in the prescribed format in **Annexure – 10**, to meet any shortfall in the equity investment by the Selected Bidder in the _____ [Name of SPV].

    Note: The effective Equity holding of the Selected Bidder in the _____ [Name of SPV], as specified in Clause 2.5.8.1 shall be computed as per the provisions of Clause 2.5.8.3 of this RFP.

    Provided further, in case the Bidding Company or Member of a Consortium, (as the case may be) holds at least twenty six percent (26%) equity in such Technically/ Financially Evaluated Entities, whose credentials have been considered for the purpose of meeting the Qualification Requirements as per the RFP, no such Undertaking shall be required from the Technically / Financially Evaluated Entities.

11. Board resolutions, as per prescribed formats enclosed as Annexure – 11, duly certified by the Company Secretary or any Whole-time Director / Manager (supported by a specific Board Resolution), as applicable to the Bidder and mentioned hereunder,

    (a) Board resolution from the Bidding Company (and any investing Affiliate / Parent Company / Ultimate Parent Company) committing one hundred percent (100%) in aggregate of the equity requirement for the Project - Format-1 of **Annexure 11**;

    (b) Board resolutions from each of the Consortium Member of the Bidding Consortium (and any investing Affiliate / Parent Company / Ultimate Parent Company) together committing to one hundred percent (100%) in aggregate of equity requirement for the Project, in case Bidder is a Bidding Consortium - Format-1 of **Annexure 11**;

    (c) In either of the cases as in (a) or (b) above as applicable, Board resolutions as per Format 2 of **Annexure 11** for total equity investment commitment from the Technically / Financially Evaluated Entity(ies) whose technical / financial credentials had been considered for the purpose of meeting Qualification Requirements as per the RFP

    OR

    Board resolutions as per Format 2 of **Annexure 11** from the Parent Company or the Ultimate Parent Company for total equity investment commitment.

    Provided that such Board resolutions, as specified in (a) or (b) or (c) above, in case of a foreign entity, shall be supported by an unqualified opinion issued

by an independent legal counsel practicing in the relevant country, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

For clarity sake, illustrations identifying which Board Resolution shall be applicable in typical cases are provided in **Annexure 11A**.

12. Format for Illustration of Affiliates at the most seven (7) days prior to Bid Deadline, duly certified by Company Secretary and supported by documentary evidence **(Annexure 12)**.

    Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with **Annexure 12.**

13. Disclosure as per **Annexure 13** regarding participation of any related companies in this bidding process.

14. Bid Bond, as per the prescribed format at **Annexure 14 or** Bid Security Declaration as per prescribed format at **Annexure-14A (as applicable)**;

15. Checklist for Technical Bid submission requirements as per **Annexure 16**.

16. Last three (3) financial years' unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity

17. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, for the financial years in which financial closure was achieved and the financial year in which the said project was completed / commissioned.

18. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.

19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by duly signed by authorized signatory.

In addition to the online submission of above formats through the electronic platform, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be

construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2.

2.5.3 Financial Bid (as per prescribed format at Annexure-21)

Financial Bid shall comprise of: (i) the Initial Offer; and (ii) the Final Offer. The Initial Offer is required to be submitted along with the Technical Bid. It is hereby clarified that the Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP.

In accordance with clause 2.5 of this RFP, the qualified Bidders shall be eligible to participate in the electronic reverse auction and submit their Final Offer.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The Bidders shall inter-alia take into account the following while preparing and submitting the Initial Offer and Final Offer of Financial Bid :-

a. The Bidders shall quote single annual Quoted Transmission Charges for a period of 35 years commencing from the Scheduled COD of the Project.

b. The Quoted Transmission Charges as per the format at Annexure-21 shall be inclusive of all charges and no exclusions shall be allowed. The Bidders shall take into account all costs including capital and operating, statutory taxes, duties, levies. Availability of the inputs necessary for operation and maintenance of the Project should be ensured by the TSP at the Project site and all costs involved in procuring the inputs (including statutory taxes, duties, levies thereof) at the Project site must be included in the Quoted Transmission Charges.

c. Annexure 21 duly digitally signed by authorized signatory.

2.5.4 Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from referring to any other document for providing any information required in the prescribed format.

2.5.5 Transmission Charges

2.5.5.1. The Transmission Charges shall be specified in the Transmission Service Agreement

and shall be payable to the TSP in Indian Rupees only. The Bidders shall quote single Transmission Charges as per the format at Annexure – 21.

2.5.5.2. The Transmission Charges of the Selected Bidder shall be inserted in Schedule 5 of the Transmission Service Agreement.

2.5.6 Bidders may note that:

a) All the information and documents in Bid shall be submitted in English language only.

b) Bidders shall mention the name, designation, telephone number, fax number, email address of the authorized signatory and complete address of the Bidder in the covering letter.

c) All pages of the Bid submitted shall be initialed and stamped by the authorized signatory on behalf of the Bidder.

d) A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium.

e) The technical and financial capability of a particular company / particular project (Parent and/ or Affiliate) shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium including Lead Member / Bidding Company.

f) This Request for Proposal (RFP) document is not transferable. The RFP document and the information contained therein is for the use only by the Bidder to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project, this RFP document must be kept confidential.

g) Though adequate care has been taken while preparing this RFP document, the Bidder shall satisfy himself that the document is complete in all respects. Intimation of any discrepancy shall be given to the BPC immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of RFP document, it shall be considered that the RFP document is complete in all respects and has been received by the Bidder.

h) Bids submitted by the Bidder and opened on scheduled date and time as stipulated in this RFP shall become the property of the BPC and BPC shall have no obligation to return the same to the Bidder.

i) If any Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its Bid, in any manner whatsoever, the BPC reserves the right to reject such Bid or cancel the Letter of Intent, if issued. If such event is discovered after the Effective Date, consequences specified in Transmission Service Agreement shall apply.

j) If for any reason the Bid of the Bidder with the lowest Quoted Transmission Charges is

not selected or Letter of Intent issued to such Selected Bidder is cancelled or such Bidder withdraws its Bids, the BPC may :-

i. Invite all the remaining Bidders to revalidate or extend their respective Bid Security, as necessary, and match the Bid of the Bidder with the lowest Quoted Transmission Charges (the "second round of bidding") with following cases:

- If in the second round of bidding, only one Bidder matches the Bid of the Bidder with lowest Quoted Transmission Charges, it shall be the Selected Bidder.

- If two or more Bidders match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, then the Bidder whose Quoted Transmission Charges was lower as compared to other Bidder(s) in the first round of bidding shall be the Selected Bidder. For example, if the third and fifth lowest Bidders in the first round of bidding offer to match the Bid of the Bidder with lowest Quoted Transmission Charges in the second round of bidding, the said third lowest Bidder shall be the Successful Bidder.

- In the event that no Bidder offers to match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, the BPC may, in its discretion, invite fresh Bids (the "third round of bidding") from all Bidders except the Bidder which quoted the lowest Quoted Transmission Charges in the first round of bidding. In case the Bidders are invited for the third round of bidding to revalidate or extend their Bid Security, as necessary, and offer fresh Bids, they shall be eligible for submission of fresh Bids provided, however, that in such third round of bidding only such Bids shall be eligible for consideration which are lower than the Quoted Transmission Charges of the second lowest Bidder in the first round of bidding; or;

ii. Annul the bid process; or

iii. Take any such measure as may be deemed fit in the sole discretion of the BPC[1]

k) The BPC may, at its sole discretion, ask for additional information / document and/or seek clarifications from a Bidder after the Bid Deadline, inter alia, for the purposes of removal of inconsistencies or infirmities in its Bid. However, no change in the substance of the Quoted Transmission Charges shall be sought or permitted by the BPC.

l) Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.

m) Bidders shall familiarize itself with the procedures and time frames required to obtain all Consents, Clearances and Permits.

n) All Bidders are required to ensure compliance with the standards and codes mentioned

[1] **BPC shall record reasons for the same.**

in Clause 1.6.1.2.

o) BPC reserves the right to reject all Bids and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

p) Foreign companies submitting the Bid are required to follow the applicable law in their country for execution of POA, Consortium Agreement and affixation of Common Seal (wherever required) and in such cases, their Bid should be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that execution of such POA, Consortium Agreement and the authorizations granted therein are true and valid. Foreign companies executing POA outside India shall necessarily pay the adequate stamp charges in India as per the provisions of Stamp Act.

2.5.7 Bidders to inform themselves fully

2.5.7.1. The Bidders shall make independent enquiry and satisfy themselves with respect to all the required information, inputs, conditions and circumstances and factors that may have any effect on his Bid. Once the Bidders have submitted their Bids, the Bidders shall be deemed to have inspected and examined the site conditions (including but not limited to its surroundings, its geological condition and the adequacy of transport facilities to the site), the laws and regulations in force in India, the transportation facilities available in India, the grid conditions, the adequacy and conditions of roads, bridges, railway sidings, ports, etc. for unloading and/or transporting heavy pieces of material and has based its design, equipment size and fixed its price taking into account all such relevant conditions and also the risks, contingencies and other circumstances which may influence or affect the transmission of power. Accordingly, each Bidder acknowledges that, on being selected as Successful Bidder and on acquisition of one hundred percent (100%) of the equity shares of the _____[Insert Name of SPV], the TSP shall not be relieved from any of its obligations under the RFP Project Documents nor shall the TSP be entitled to any extension in Scheduled COD mentioned in this RFP or financial compensation for any reason whatsoever.

2.5.7.2. In their own interest, the Bidders are requested to familiarize themselves with all relevant laws of India, including without limitation, the Electricity Act 2003, the Income Tax Act 1961, the Companies Act, 1956 / Companies Act, 2013 (as the case may be), Environment Protection Act 1986 and Forest (Conservation) Act, 1980, the Customs Act, the Foreign Exchange Management Act, Land Acquisition Act, 1894, the Indian Telegraph Act 1885, Labour & Employment Laws of India, [Insurance Act] the regulations/standards framed by the Commissions and CEA, all other related acts, laws, rules and regulations prevalent in India, as amended from time to time.

In addition to the above, the Bidders are required to familiarize themselves with all relevant technical codes and standards, including but not limited to the Grid Code / State Grid Code, Central Electricity Authority (Installation and Operations of Meters) Regulations, 2006, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007, Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium - Term Open Access in Inter-State

Transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, the CERC and the CEA and amendments thereof.

The BPC shall not entertain any request for clarifications from the Bidders regarding the above laws / acts / rules / regulations / standards. Non-awareness of the same shall not be a reason for the Bidder to request for extension in Bid Deadline. The Bidders undertake and agree that, before submission of their Bid, all such factors as generally brought out above, have been fully investigated and considered while submitting their Bids.

2.5.7.3. The Survey Report has been prepared in good faith, and on best endeavor basis. Neither BPC & Nodal Agency nor their employees or advisors/consultants make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of such Survey Report, even if any loss or damage is caused to the Bidders by any act or omission on their part.

2.5.7.4. Bidders shall make best efforts and carry out its own due diligence upon survey report provided by BPC and shall consider all possible techno-commercial factors before submission of Bid. Bidders may also visit the route of the Transmission Lines associated with the Project and the surrounding areas and obtain / verify all information which they deem fit and necessary for the preparation of their Bid. Bidders may also carry out required surveys and field investigation for submission of their Bid. Bidders may also opt for any other route and is not bound to follow the route suggested in survey report provided by BPC.

2.5.7.5. Failure to investigate, examine and to inspect site or subsurface conditions fully shall not be grounds for a Bidder to alter its Bid after the Bid Deadline nor shall it relieve a Bidder from any responsibility for appropriately eliminating the difficulty or costs of successfully completing the Project.

2.5.7.6. The Selected Bidder shall obtain all necessary Consents, Clearances and Permits as required. The Bidders shall familiarize itself with the procedures and time frame required to obtain such Consents, Clearances and Permits.

2.5.7.7. The technical requirements of integrated grid operation are specified in the Indian Electricity Grid Code (IEGC). The Bidders should particularly acquaint themselves with the requirements of connection conditions, operating code for regional grids, scheduling and dispatch instructions/codes, etc. The Bidders are also advised to fully familiarize themselves with the real time grid conditions in the country. Information regarding grid parameters such as voltage and frequency is available on the websites of Regional / State Load Despatch Centres.

2.5.8 Minimum Equity holding/Equity Lock-in

2.5.8.1. (a) The aggregate equity share holding of the Selected Bidder, in the issued and paid up equity share capital of _____ [Insert Name of SPV] shall not be less than Fifty one percent (51%) up to a period of (1) one year after COD of the Project;

(b) In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(c) If equity is held by the Affiliates, Parent Company or Ultimate Parent Company, then subject to the second proviso of this Clause 2.5.8.1 (c), such Affiliate, Parent Company or Ultimate Parent Company shall be permitted to transfer its shareholding in _____[Insert name of SPV] to another Affiliate or to the Parent Company / Ultimate Parent Company. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company.

Provided that in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction shall apply to such entities.

Provided further, that the aggregate equity share holding of the Bidding Consortium or a Bidding Company in the issued and paid up equity share capital of _____[Insert name of SPV] shall not be less than fifty one percent (51%) up to a period of one (1) year after COD of the Project and the lead Member of the Consortium shall have the equity share holding not less than twenty six percent (26%). In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(d) All transfer(s) of shareholding of _____[Insert name of SPV] by any of the entities referred to above, shall be after prior written intimation to the Nodal Agency.

2.5.8.2. The Selected Bidder may invest in the equity share capital of _____ [Insert name of SPV] through its Affiliate(s) or Ultimate Parent Company or Parent Company. Details of such investment will have to be specified in the Technical Bid as per Format 2 of Annexure 8 of the RFP. If the Selected Bidder so invests through any Affiliate(s) or Ultimate Parent Company or Parent Company, the Selected Bidder shall be liable to ensure that minimum equity holding/lock-in limits specified in Clause 2.5.8.1 and as computed as per the provisions of Clause 2.5.8.3 are still maintained.

2.5.8.3. For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity

holding of such Affiliate (s) or Ultimate Parent Company in _____[Insert name of SPV] shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in _____[Insert name of SPV] then holding of Selected Bidder A in _____[Insert name of SPV] shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in _____[Insert name of SPV], then for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in _____[Insert name of SPV] shall be fifteen percent (15%), (i.e., 30%* 50%);

2.5.8.4. The provisions as contained in this Clause 2.5.8 and Article 19.1 of the Transmission Service Agreement shall override the terms of the Consortium Agreement submitted by the Bidder as part of the RFP.

2.6 Project Schedule

2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from effective date	100 %	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
2.	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
3.	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
4.	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
5.	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line			

2.7 Due dates

2.7.1. The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before 1500 hrs on 03.12.2024. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

2.7.2. Important timelines are mentioned below:

Date	Event
28-09-2024	Issuance of RFP
18-10-2024	Submission of written clarifications/amendments, if any, on the RFP / RFP Project Documents by Bidders so as to reach BPC by 1700 hours. Such written clarifications/amendments shall be in the format provided in Annexure-20.
25-10-2024	Pre-Bid meeting(s)
05-11-2024	Issue of written clarifications and revised RFP documents
18-11-2024	Issue of final RFP Project Documents

Date	Event
03-12-2024	Submission of Bid (Online submission of Bid through electronic bidding portal)
03-12-2024	Opening of Technical Bid
11-12-2024	Shortlisting and announcement of Qualified Bidders on bidding portal
12-12-2024	Opening of Financial Bid - Initial Offer
13-12-2024	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.
16-12-2024	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer
23-12-2024	Selection of Successful Bidder and issue of LOI
02-01-2025	Signing of RFP Project Documents and transfer of SPV

2.7.3. To enable BPC to meet the schedule, all Bidders are expected to respond expeditiously during the bidding process. If any milestone/activity falls on a day which is not a working day or which is a public holiday then the milestone/activity shall be achieved/ completed on the next working day.

2.8 Validity of the Bid

2.8.1. The Bid shall remain valid for a period of one hundred and eighty (180) days from the Bid Deadline. The BPC reserves the right to reject any Bid which does not meet aforementioned validity requirement.

2.8.2. The BPC may solicit the Bidders' consent for an extension of the period of validity of the Bid. The request and the response, thereafter, shall be in writing. In the event any Bidder refuses to extend its Bid validity as requested by the BPC, the BPC shall not be entitled to invoke the Bid Bond. A Bidder accepting the BPC's request for validity extension shall not be permitted to modify its Bid and such Bidder shall, accordingly, extend the validity of the Bid Bond as requested by the BPC within seven (7) days of such request, failing which the Bid shall not be considered as valid.

2.9 Method of Submission

2.9.1. Both the Technical and Financial Bids duly filled in, all formats and supporting shall be scanned and uploaded online through electronic bidding platform in the manner specified in Annexure A

2.9.2. It may be noted that Technical Bid shall not contain any information/document relating to Financial Bid. If Technical Bid contains any such information/documents, the BPC shall not be responsible for premature opening of the Financial Bid.

All pages of the Bid, except for the Bid Bond (Annexure 14) and any other document executed on non-judicial stamp paper, forming part of the Bid and corrections in the Bid, if any, must be signed by the authorized signatory on behalf of the Bidder. It is clarified that the same authorized signatory shall sign all pages of the Bid. However, any published

document submitted in this regard shall be signed by the authorized signatory at least on the first and last page of such document.

2.9.3. No change or supplemental information to a Bid already submitted will be accepted after the Bid Deadline, unless the same is requested for by the BPC as per Clause 2.5.6 (k).

Provided that a Bidder shall always have the right to withdraw / modify its Bid before the Bid Deadline. No Technical Bid or Initial Offer shall be modified, substituted or withdrawn by the Bidder on or after the Bid Deadline.

2.10 Preparation cost

2.10.1. The Bidders shall be responsible for all the costs associated with the preparation of the Bid and participation in discussions and attending pre-bid meetings, and finalization and execution of the RFP Project Documents (other than the TSA), etc. BPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of the process of tariff based competitive bidding for selection of Bidder as TSP as per Bidding Guidelines.

2.10.1 The cost of this RFP is **Rupees Five Lakh (Rs.5,00,000/-) or U.S. Dollar Seven Thousand Only (US$7,000 /-) plus GST** as per applicable rate, which shall be non-refundable. This amount shall be paid via electronic transfer to the following Bank Account:

Bank Account Name: PFC Consulting Limited
Account No. : 000705036117
Bank Name : ICICI Bank
IFSC : ICIC0000007
Branch : Connaught Place, New Delhi-110001

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

2.11 Bid Bond

2.11.1. Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.

2.11.2. Subject to the provisions of Clause 2.15.5, the Bid Bond may be invoked by the BPC or its authorized representative, without any notice, demure, or any other legal process upon occurrence of any of the following:

- Bidder withdraws during the period of Bid Validity as specified in this RFP or as extended by mutual consent of the respective Bidder(s) and the BPC

- Failure to execute the Share Purchase Agreement as per the provisions of Clause 2.15.2; or

- Failure to furnish the Contract Performance Guarantee as per Clause 2.12; or

- Failure to acquire one hundred percent (100%) equity shares of _____ [Insert Name of SPV], along with all its related assets and liabilities, in accordance with the provisions of Clause 2.15.2; or

- Failure to comply with the provisions of Clause 2.15.5 and Clause 2.15.6, leading to annulment of the award of the Project.

- Bidders submitting any wrong information or making any misrepresentation in their Bid as mentioned in Clause 2.5.6.

Intimation of the reasons of the invocation of the Bid Bond shall be given to the Selected Bidder by the BPC within three (3) working days after such invocation.

2.11.3. The Bid Bond of the Selected Bidder shall be returned on submission of the Contract Performance Guarantee as per Clause 2.12 and the relevant provisions of the Transmission Service Agreement.

2.11.4. The Bid Bond of all the Bidders, whose Bids are declared non-responsive, shall be returned within a period of thirty (30) days after the date on which the Financial Bids are opened.

2.11.5. The Bid Bond of all unsuccessful Bidders shall be returned and released by the BPC on the same day on which the _____ [Insert name of SPV] is transferred to the Selected Bidder. The Bid Bond of the Successful Bidder shall be returned on submission of Contract Performance Guarantee as per Clause 2.12 of this RFP and the provisions of the Transmission Service Agreement.

2.12 Contract Performance Guarantee

2.12.1. Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of **Rs. 11.80 Crore (Rupees Eleven Crore Eighty Lakh Only).** The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The Contract Performance Guarantee shall be issued by any of the banks listed in Annexure-17.

2.12.2. In case the Selected Bidder is unable to obtain the Contract Performance Guarantee for the total amount from any one bank specified in Annexure-17, the Selected Bidder may

obtain the same from not more than three (3) banks specified in Annexure-17.

2.13 Opening of Bids

2.13.1. Technical Bid will be opened by the Bid Opening Committee as per the following time schedule and in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend:

Opening of Envelope (Technical Bid): 1530 hours (IST) on 03.12.2024 or such other dates as may be intimated by BPC to the Bidders.

In the event of any of above dates falling on a day which is not a working day or which is a public holiday, then the bids shall be opened on the next working day at the same venue and time.

Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on 12.12.2024 in the office of CEA.

2.13.2. The following information from each Bid will be read out to all the Bidders at the time of opening of Technical Bid:

- Name of the Bidding Company / Consortium Members in case of Bidding Consortium.

Information to be provided after opening of Initial Offer:

Only the lowest Initial Offer (s) shall be communicated to all the Qualified Bidders to participate in the e-reverse bidding process. During the e-reverse bidding process only the lowest prevailing bid should be visible to all the bidders on the electronic platform.

2.14 Enquiries

Written clarifications on the RFP and other RFP Project Documents as per Clause 2.3 and 2.4 may be sought from:

General Manager
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001
Tel. + 91 11 23443912
Fax + 91 11 23443990
Email: pfccl.itp@pfcindia.com

2.15 Other Aspects

2.15.1. The draft of the Transmission Service Agreement has been attached to this RFP. In addition

to above, the following documents have also been attached to this RFP:

a) Share Purchase Agreement

When the drafts of the above RFP Project Documents are provided by the BPC, these RFP Project Documents shall form part of this RFP as per Formats – 1 & 2 of Annexure 20.

Upon finalization of the RFP Project Documents after incorporating the amendments envisaged in Clause 2.4 of this RFP, all the finalized RFP Project Documents shall be provided by BPC to the Bidders at least fifteen (15) days prior to the Bid Deadline.

The Transmission Service Agreement and Share Purchase Agreement shall be signed in required number of originals so as to ensure that one (1) original is retained by each party to the Agreement(s) on the date of transfer of SPV.

2.15.2. Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall:

a) provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12;

b) execute the Share Purchase Agreement and the Transmission Service Agreement;

c) acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of _____ [Insert Name of SPV] from PFC Consulting Limited, who shall sell to the Selected Bidder, the equity shareholding of _____ [Insert Name of SPV], along with all its related assets and liabilities;

Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of _____ [Insert Name of SPV], along with all its related assets and liabilities, shall also be borne by the Selected Bidder.

Provided further that, if for any reason attributable to the BPC, the above activities are not completed by the Selected Bidder within the above period of ten (10) days as mentioned in this Clause, such period of ten (10) days shall be extended, on a day for day basis till the end of the Bid validity period.

2.15.3. After the date of acquisition of the equity shareholding of _____ [Insert Name of SPV], along with all its related assets and liabilities, by the Selected Bidder,

i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,

ii. all rights and obligations of _____ [Insert Name of SPV] , shall be of the TSP,

iii. any decisions taken by the BPC prior to the Effective Date shall continue to be binding on the Nodal Agency and

iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.

v. Further, the TSP shall execute the Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

2.15.4. Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.

2.15.5. If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and PFC Consulting Limited is willing to sell the entire equity shareholding of _____[Insert Name of SPV], along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.

2.15.6. If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for annulment of award of the Project.

2.15.7. The annulment of award, as provided in Clauses 2.15.5 and 2.15.6 of this RFP, will be done by the Government on the recommendations of National Committee on Transmission. However, before recommending so, National Committee on Transmission will give an opportunity to the Selected Bidder / TSP to present their view point.

2.15.8. The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP, shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.

2.16 Confidentiality

2.16.1. The parties undertake to hold in confidence this RFP and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

a) to their professional advisors;

b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities;

c) disclosures required under Law, without the prior written consent of the other parties of the concerned agreements.

Provided that the TSP agrees and acknowledges that the Nodal Agency may at any time, disclose the terms and conditions of the RFP and RFP Project Documents to any person, to the extent stipulated under the Law or the Bidding Guidelines.

2.17 Right of the BPC to reject any Bid

BPC reserves the right to reject all or any of the Bids/ or cancel the RFP without assigning any reasons whatsoever and without any liability.

2.18 Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.

2.19 Fraudulent and Corrupt Practices

2.19.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bid process and subsequent to the issue of the LoI Notwithstanding anything to the contrary contained herein, or in the LoI, the BPC shall reject a Bid, withdraw the LoI, as the case may be, without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the BPC shall forfeit the Bid Bond, without prejudice to any other right or remedy that may be available to the BPC hereunder or otherwise.

2.19.2. Without prejudice to the rights of the BPC under Clause 2.19.1 hereinabove and the rights and remedies which the BPC may have under the LoI, if a Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of the LoI, such Bidder & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

2.19.3. For the purposes of this Clause 2.19, the following terms shall have the meaning hereinafter respectively assigned to them:

a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the Transmission Service Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such

official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the Transmission Service Agreement, as the case may be, any person in respect of any matter relating to the Project or the LoI or the Transmission Service Agreement, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

b) **"Fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

c) **"Coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;

d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

e) **"Restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process.

SECTION - 3

EVALUATION OF THE TECHNICAL AND FINANCIAL BID

SECTION 3

1. EVALUATION OF BID

3.1. The evaluation process of Technical Bid comprises the following five steps:

Step I – Responsiveness check
Step II- Compliance with submission requirements
Step III– Evaluation of Technical Bids
Step IV– Evaluation of Financial Bids
Step V – Bidder Selection

3.2. STEP I – Responsiveness check

The Technical Bid submitted by the Bidder shall be initially scrutinized to establish "Responsiveness". Subject to clause 2.5.6 (k), any of the following conditions shall cause the Technical Bid to be "Non-responsive":

a) Technical Bid that are incomplete.

b) Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.

c) All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.

d) Technical Bid not including the covering letter as per Annexure 1.

e) Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.

f) Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.

g) Bidder submitting or participating in more than one Bid either as a Bidding Company or as a Member of Bidding Consortium.

h) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.

i) Information not submitted in formats specified in the RFP.

j) Applicable Board resolutions, or any other document, as provided in Clause 2.5.2, not being submitted;

k) Bid not accompanied by a valid Bid Bond or Bid Security Declaration, as applicable;

l) Non submission of power of attorney, supported by a Board resolution;

m) Bid validity being less than that required as per Clause 2.8 of this RFP;

n) Bid not containing Format-1 (Bidders' Undertakings) of Annexure-8;

o) Bidder having Conflict of Interest

p) The Bidder has not submitted a disclosure as per Annexure 13.

q) Bidders delaying in submission of additional information or clarifications sought by the BPC.

r) If the Bidder makes any misrepresentation as specified in Clause 3.7.

s) Bid being conditional in nature.

t) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.

3.3. STEP II - Compliance with submission requirements

Each Bidder's Technical Bid shall be checked for compliance with the submission requirements set forth in this RFP before the evaluation of Technical Bid is taken up. Annexure 16 and Annexure 11A shall be used to check whether each Bidder meets the stipulated requirements.

3.4. STEP III -Evaluation of Technical Bid

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements

3.4.1. Interpolation of financial data.

For the Qualification Requirements data provided by the Bidders in foreign currency, equivalent rupees of Networth will be calculated using bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the accounts for the respective financial year as certified by their Banker.

For the purpose of calculating the aggregate capital expenditure/construction experience of the projects completed/ commissioned where such projects are executed outside India and capital expenditure is denominated in foreign currency, bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the financial year in which the projects were completed and as certified by their Banker shall be considered.

For the projects executed in the current financial year bills selling (card rate) USD/INR of State Bank of India prevailing on seven (7) days prior to the last date of submission of Technical Bid and as certified by their Banker shall be considered.

For currency other than USD, Bidders shall convert such currency into USD as per the

exchange rates certified by their Banker prevailing on the relevant date and used for such conversion. Such Bidders shall submit necessary certification from their Banker for the exchange rate used in the conversation.

If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day shall be taken into account.

3.4.2. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clauses 3.2 to 3.4 shall be declared as Qualified Bidders and eligible for opening of Initial Offer.

3.4.3. The BPC shall upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification.

3.5. STEP IV - Evaluation of Financial Bids

3.5.1. The Bids which have been found Qualified by the BPC, based on the Steps I to III as specified above in Clauses 3.2.to 3.4, shall be opened and Quoted Transmission Charges of such Initial Offer shall be ranked on the basis of the ascending Initial Offer submitted by each Qualified Bidder.

Based on such ranking of the Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction.

Provided however, in case only one Bidder remains after the Evaluation of Technical Bid (Steps 1 to III) as per Clause 3.2 to 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of Qualified Bidders is between two and four, then each of the responsive Bidder shall be considered as Qualified Bidders.

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all Qualified Bidders who shares the same rank till 50% of the rank (with any faction rounded off to higher integer) determined above, shall qualify to participate in the electronic reverse auction stage. In case 50% of the rank is having less than four (4) Bidders and the rank of the fourth (4^{th}) Bidder is shared by more than one Bidder, then all such all such Bidders who share the rank of the fourth Bidder shall qualify to participate in the electronic reverse auction.

3.5.2. The Financial Bids comprising of both Initial Offer and Final Offer submitted by the Bidders shall be scrutinized to ensure conformity with the provisions of Clause 2.5.3 of this RFP. Any Bid not meeting any of the requirements as per Clause 2.5.3 of this RFP may cause the Bid to be considered "Non-responsive", at the sole decision of the BPC. Financial Bid not in conformity with the requirement of SI. No. (c) of Clause 2.5.3 of this RFP shall be rejected.

3.5.3 The Bidders shall quote the single annual Quoted Transmission Charges as specified in the format at Annexure – 21.

3.6. STEP V - Bidder Selection

3.6.1. The prevailing lowest Quoted Transmission Charges discovered from Final Offers shall only be displayed during the e-reverse bidding and the Bidder quoting such Final Offer will always remain anonymous during the e-reverse bidding. The Bidder with the prevailing lowest Quoted Transmission Charges discovered from Final Offers at the close of the scheduled or extended period of e-reverse bidding as mentioned in clause 2.5 shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.2. The Selected Bidder shall unconditionally accept the LoI, and record on one (1) copy of the LoI, "Accepted unconditionally", under the signature of the authorized signatory of the Successful Bidder and return such copy to the BPC within seven (7) days of issue of LoI.

3.6.3. If the Successful Bidder, to whom the Letter of Intent has been issued, does not fulfill any of the conditions specified in Clauses 2.15.2, 2.15.3 and Clause 2.15.4, then subject to Clause 2.15.5, the BPC reserves the right to annul the award of the Project and cancel the Letter of Intent. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.4. The BPC, in its own discretion, has the right to reject all Bids if the Quoted Transmission Charges are not aligned to the prevailing prices.

3.7. Misrepresentation by the Bidder

If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in the Technical Bid or Bid, as the case may be, in any manner whatsoever, in order to create circumstances for the acceptance of its Technical Bid/Bid, the BPC reserves the right to reject such Technical Bid/Bid, and/ or cancel the Letter of Intent, if issued. Further, in case Letter of Intent is cancelled, consequences as per provisions of the RFP shall follow.

3.8. Disposition of Technical Bid

3.8.1. Technical Bid found to be Non-responsive as per Clause **3.2,** due to any of the following

conditions, shall be liable for rejection.

- Technical Bid that is incomplete.
- Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.
- All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
- Technical Bid not including the covering letter as per Annexure 1.
- Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
- Information not submitted in formats specified in the RFP.
- The Bidder has not submitted a disclosure as per Annexure 13**.**
- Bidders delaying in submission of additional information or clarifications sought by the BPC.

3.8.2. Technical Bid found to be Non-responsive as per Clause **3.2,** due to any of the following conditions, shall be rejected.

- Technical Bid not received by the scheduled date and time.
- Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.
- Bidder submitting or participating in more than one response either as a Bidding Company or as a Member of Bidding Consortium.
- More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- Technical Bid having Conflict of Interest.
- If the Bidder makes any misrepresentation as specified in Clause **3.7.**

3.9. BPC reserves the right to interpret the Bid in accordance with the provisions of this RFP document and make its own judgment regarding the interpretation of the same. In this regard, BPC shall have no liability towards any Bidder and no Bidder shall have any recourse to BPC with respect to the qualification process.

BPC shall evaluate Bid using the process specified in Clause 3.1 to 3.6, at its sole discretion. BPC's decision in this regard shall be final and binding.

SECTION - 4

ANNEXURES FOR BID

SECTION – 4

I. Formats for Bid

The following formats are required to be included in the Bidder's Technical and Financial Bid. These formats are designed to demonstrate the Bidder's compliance with the Qualification Requirements set forth in Clause 2.1 of Section – 2.

Technical Bid

1. Format for the Covering Letter
2. Format for Letter of Consent from Consortium Members
3. Format for evidence of authorized signatory's authority (Power of Attorney)
4. Format for Power of Attorney from to be provided by each of the other Members of the Consortium in favor of the Lead Member
5. Format for Bidder's composition and ownership structure and Format for Authorization
6. Format for Consortium Agreement
7. Formats for Qualification Requirement
8. Format of Bidders Undertaking and details of Equity Investment
9. Authorization from Parent/Affiliate of Bidding Company/Member of Bidding Consortium whose technical/financial capability has been used by the Bidding Company/Member of Bidding Consortium.
10. Undertaking from the Technically / Financially Evaluated Entity(ies) or from Ultimate Parent Company for equity investment
11. Format of Board Resolutions
12. Format for Illustration of Affiliates
13. Format for Disclosure
14. Format for Bid Bond

14A. Format for Bid Security Declaration

15. Format for Contract Performance Guarantee
16. Checklist for Technical Bid submission requirements

22. Format for Affidavit

In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

Financial Bid

21. Format for Financial Bid

II. The following formats are for the information to the Bidders to enable them to submit their Bid.

11A. Illustration For Applicable Board Resolution Requirements Under Clause 2.5.2

17. List of Banks
18. GRID Map of the Project
19. Format for clarification/amendments on the RFP/RFP Project Documents
20. Formats for RFP Project Documents

Bidder may use additional sheets to submit the information for its detailed Bid.

ANNEXURE 1 - COVERING LETTER

(The covering letter should be on the Letter Head of the Bidding Company/ Lead Member of the Consortium)

Date: ……
From: ……
……
……
Tel. No.: ……
Fax No.: ……
E-mail address: ……

To,
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: **Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" through tariff based competitive bidding process.**

1. Being duly authorized to present and act on behalf of M/s ……. (insert name of Bidding Company / Bidding Consortium) (hereinafter called the "Bidder") and having read and examined in detail the Request for Proposal (RFP) document, the undersigned hereby submit our Technical Bid with duly signed formats and Financial Bid (Initial Offer) as stipulated in RFP document for your consideration.

2. It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP document and subsequent clarifications/amendments as per Clause 2.3 and 2.4 of RFP.

3. The information submitted in our Bid is complete, is strictly as per the requirements stipulated in the RFP document and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.

   We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD,

dated 24.07.2020, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.

5. We hereby agree to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as amended from time to time.

6. We are herewith submitting legally binding board resolution for the total equity requirement of the Project.

7. We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are herewith submitting legally binding undertaking supported by a board resolution from the ……..(Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of …….. (Insert name of the Bidding Company) shall be deemed to be equity investment obligations of the …… (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by……. (Insert name of the Bidding Company), the same shall be met by ……. (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be).

   [Sl. No 7 to be inserted only in case the Bidder is a Bidding Company / Lead Member of a Consortium and has sought qualification on the basis of technical and financial capability of its Affiliate(s) and/or its Parent]

8. We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to the Project.

9. We hereby confirm that we shall continue to maintain compliance with Qualification Requirements till the execution of the Transmission Service Agreement. Further, in case we emerge as Selected Bidder for the Project, we shall continue to maintain compliance with Qualification Requirements till the COD of the Project.

10. We confirm that we have studied the provisions of relevant Indian laws and regulations required to enable us to build, own, operate and transfer the said Project and to prepare this Bid.

11. We hereby confirm that we shall abide unreservedly with BPC's decision in the qualification process for selection of Qualified Bidder and further warrant that under no circumstances we shall challenge either the BPC's decision or its right to make such decision at any time in the future.

12. We confirm that the Bid shall remain valid for a period of one eighty (180) days from the Bid Deadline.

13. The details of contact person are furnished as under:
    Name: ……
    Designation: ……
    Name of the Company: ……

Address of the Bidder: ……
Phone Nos.: ……..
Fax Nos.: ……..
E-mail address: ……..

14. Bid Bond

We have enclosed a Bid Bond of Rupees ……. Crores (Rs. ……) only or US$ ..... (…….US Dollars), in the form of bank guarantee no……[Insert number of the Bank Guarantee] dated……[Insert Date of the Bank Guarantee] as per your proforma (Annexure-14) from……[Insert name of bank providing Bid Bond] and valid up to ……..in terms of Clause 2.11 of the RFP.

Or

We have enclosed a Bid Security Declaration as per your proforma (Annexure-14A) [To be inserted for projects wherein RFP has been issued before 31.12.2021 otherwise to be deleted]

15. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by the BPC on any matter regarding or arising out of the RFP shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

16. Familiarity With Relevant Indian Laws & Regulations

We confirm that we have studied the provisions of relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFP Project Documents (other than TSA), in the event of our selection as the TSP. We further undertake and agree that all such factors as mentioned in Clause 2.5.7 of RFP have been fully examined and considered while submitting the Bid.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP and subsequent communications from BPC.

The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

We confirm that we have not taken any deviation so as to be deemed non-responsive with respect to the provisions stipulated at Clause 2.5.1, of this RFP.

Thanking you,

Yours sincerely,

……

(Name and Signature of the authorized signatory in whose name Power of Attorney/ Board Resolution as per Clause 2.5.2 is issued)

Name: ……
Designation: ……
Address: ……

Date: ……
Place: ……

Company Rubber Stamp

ANNEXURE 2 - LETTER OF CONSENT FROM CONSORTIUM MEMBERS

(On the letter head of each Member of the Consortium including Lead Member)

Date: ……
From: ……
……
……
Tel. No.: ……
Fax No.: ……
E-mail address: ……..

To,
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: **Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "*North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A*" through tariff based competitive bidding process.**

We, the undersigned Member of …… (Insert name of the Bidding Consortium) have read, examined and understood the RFP document for the short-listing of Bidders as prospective TSP to establish Inter-State Transmission System for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"** through tariff based competitive bidding process. We hereby confirm our concurrence with the Bid including in particular the Consortium Agreement submitted by ……. (Insert name of the Lead Member) in response to the RFP document.

We hereby confirm our commitment to participate in the said Bidding Consortium and invest ……. % of the total equity requirement for the Project as per the terms of the Consortium Agreement dated …… and board resolution for such investment commitment is enclosed herewith.

We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are enclosing legally binding undertaking supported by a board resolution from the ……. (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of ……. (Insert name of the Member) shall be deemed to be equity investment obligations of the …… (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by……. (Insert name of the Member), the same shall be met by……. (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be). [Insert if applicable]

[To be inserted by the Lead Member only] We are also enclosing legally binding board resolution for the total equity requirement of the Project in case of any breach of any of the

equity investment commitment by any of the Consortium Members, in line with the provisions of the Consortium Agreement dated ……. [Bidder to insert date of Consortium Agreement].

The details of contact person are furnished as under:
Name: …….
Designation: …….
Name of the Company: …….
Address: …….
Phone Nos.: …….
Fax Nos.: …….
E-mail address: …….

Dated the ……. day of ……. of 20…

Thanking you,

Yours faithfully,

……
(Signature)

Name: …….
Designation: …….

(Signature, Name, Designation of Authorized Signatory of Consortium Member and Company's Seal)

ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY (POWER OF ATTORNEY)

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

Know all men by these presents, We ……(name and address of the registered office of the Bidder) do hereby constitute, appoint and authorize Mr./Ms……(name and residential address) who is presently employed with us and holding the position of …… as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"** through tariff based competitive bidding process in the country of India, including signing and submission of all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to the BPC, and providing information / responses to the BPC, representing us in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project till the completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

For ……. [Insert name of the Bidder on whose behalf PoA is executed]

……..
(Signature)

Name: …….
Designation: …….

Accepted

……
(Signature of the Attorney)

Name: …….
Designation: .....
Address: .....
.....
(Name, Designation and Address of the Attorney)

Specimen signatures of attorney attested by the Executant

……
(Signature of the Executant)

……..
(Signature of Notary Public)

Place: ……
Date: ……

Notes:

1) To be executed by Bidding Company or the Lead Member, in the case of a Bidding Consortium, as the case maybe.

2) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.

3) Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

4) In case of foreign Bidders, refer to clause 2.5.6 (p)

ANNEXURE 4 - FORMAT FOR POWER OF ATTORNEY TO BE PROVIDED BY EACH OF THE OTHER MEMBERS OF THE CONSORTIUM IN FAVOUR OF THE LEAD MEMBER

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

KNOW ALL MEN BY THESE PRESENTS THAT M/s……., having its registered office at ……., …..,….and M/s ……. having its registered office at ……. , (Insert names and registered offices of all Members of the Consortium), the Members of Consortium, have formed a Bidding Consortium named ……. (insert name of the Consortium) (hereinafter called the **"Consortium"**) vide Consortium Agreement dated…….. and having agreed to appoint M/s…… as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s……..a company incorporated under the laws of ……and having its Registered / Head Office at ……..as our duly constituted lawful Attorney (hereinafter called as **"Lead Member"**) which is one of the Members of the Consortium, to act as the Lead Member and our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of Consortium's Bid for the Project, including signing and submission of the Bid and all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc, making representations to the BPC, and providing information / responses to the BPC, representing us and the Consortium in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project, till completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves execution of all RFP Project Documents.

We, as the Member of the Consortium, agree and undertake to ratify and confirm all whatsoever the said Attorney/Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

IN WITNESS WHEREOF M/s ……., as the Member of the Consortium have executed these presents on this…….. day of .....

For and on behalf of
Consortium Member

……
(Signature of the Authorized Signatory)

Name: ……
Designation: .....
Place: ……
Date: ……..

Name: ……
Designation: .....
Place: ……
Date: ……..

Accepted
Specimen signatures of attorney attested

……
(Signature)

……

……
(Signature of Notary Public) ……
(Name, Designation and Address of the Attorney)

Place: ……
Date: …….

Notes:

1. The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.

2. Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

3. In case of foreign Bidders, refer to clause 2.5.6 (p)

ANNEXURE 5 - FORMAT FOR BIDDER'S COMPOSITION AND OWNERSHIP STRUCTURE

1. Corporate Details:

Please provide the following information for the Bidder. If the Bidder is a Consortium, please provide this information for each Member including the Lead Member:

a. Company's Name, Address, and Nationality:

Name: ……

Address: ……
……
……

Website Address: ……..

Country of Origin: ……

b. Year Organized: ……..

c. Company's Business Activities: ……
.....

d. Status as a Bidder:

i. Bidding Company
ii. Lead Member of the Bidding Consortium
iii. Member of the Bidding Consortium

Note: tick the applicable serial number

e. Company's Local Address in India (if applicable):

……
……
……

f. Name of the Authorized Signatory: .....

g. Telephone Number: ……

h. Email Address: ……

i. Telefax Number: ……

j. Please provide the following documents:

i. Copy of the Memorandum and Articles of Association and certificate of incorporation or other equivalent organizational document (as applicable), including their amendments, certified by the Company Secretary as

Attachment 1 for Bidding Company / each Member of Bidding Consortium including Lead Member.

ii. Authority letter (as per format for authorization given below) in favour of BPC from the Bidder/every Member of the Consortium authorizing BPC to seek reference from their respective bankers & others as **Attachment 2** as per Clause 2.1.6 of the RFP.

2. Details of Ownership Structure:

Equity holding of Bidding Company/ each Member of Bidding Consortium including Lead Member owning 10% or more of total paid up equity.

Name of the Bidding Company / Consortium Member: …….
Status of equity holding as on ……

Name of the Equity Holder	Type and No. of Shares owned	Extent of Voting Control (%)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
….		

Notes:

1. The above table is to be filled in separately for each Consortium Member.
2. Status of equity holding should be provided not earlier than thirty (30) days prior to Bid Deadline.

For and on behalf of Bidding Company / Lead Member of the Bidding Consortium
M/s…….

……..
(Signature of authorized representative)
Name: ……..
Designation: ……

……..
(Stamp)

Date: ……
Place: ……

FORMAT FOR AUTHORISATION

(In case of Bidding Consortium, to be given separately by each Member)
(On Non – judicial stamp paper duly attested by notary public. Foreign companies submitting bids are required to follow the applicable law in their country)

The undersigned hereby authorize(s) and request(s) all our Bankers, including its subsidiaries and branches, any person, firm, corporation or authority to furnish pertinent information deemed necessary and requested by **PFC Consulting Limited** to verify our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"** through tariff based competitive bidding process or regarding our project development experience, financial standing and general reputation.

For and on behalf of M/s……. (Insert Name of Bidding Company or Member of the Consortium)

.....
(Signature)

Name of Authorized Signatory: …….

(Signature and Name of the authorized signatory of the Company)

Place: ……
Date: ……

……..
(Company rubber stamp/seal)

…….
(Signature of Notary Public)

Place: ……
Date: ……

ANNEXURE 6 - FORMAT FOR CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

THIS CONSORTIUM AGREEMENT executed on this..... day of .....Two thousand.....between M/s....., a company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party 1", which expression shall include its successors, executors and permitted assigns) and M/s.....a Company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party n", which expression shall include its successors, executors and permitted assigns) and for the purpose of submitting the Bid, acquisition of **{Name of the SPV Company or "Project specific SPV to be incorporated by the BPC"}**(in case of award) and entering into other Agreement(s) as specified in the RFP (hereinafter referred to as "Agreements") as may be entered into with the Nodal Agency.

WHEREAS, the BPC had invited Bid in response to RFP issued to …… (insert the name of purchaser of RFP) for selection of the bidder as the Transmission Service Provider to establish Inter-State Transmission System for **"North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"**.

AND WHEREAS, Clause 2.2.4 of the RFP document stipulates that the Bidders qualifying on the strength of a Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format specified in the RFP document wherein the Consortium Members have to commit equity of a specific percentage in the Project.

AND WHEREAS, Clause 2.2.4 of the RFP document also stipulates that the Bidding Consortium shall provide along with the Bid, a Consortium Agreement as per prescribed format whereby the Consortium Members undertake to be liable for raising the required funds for its respective equity investment commitment as specified in Consortium Agreement.

NOW THEREFORE, THIS INDENTURE WITNESSTH AS UNDER:

In consideration of the above premises and agreement all the parties in this Consortium do hereby mutually agree as follows:

1. In consideration of the selection of the Consortium as the selected bidder by the BPC, we the Members of the Consortium and parties to the Consortium Agreement do hereby unequivocally agree that M/s..... (Insert name of the Lead Member), shall act as the Lead Member as defined in the RFP for self and agent for and on behalf of ……., ..., ..., ... (the names of all the other Members of the Consortium to be filled in here).

2. The Lead Member is hereby authorized by the Members of Consortium and parties to the Consortium Agreement to bind the Consortium and receive instructions for and on behalf of the Members.

3. Notwithstanding anything contrary contained in this Consortium Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members, i.e., for both its own equity contribution as well as the equity contribution of other Members.

4. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all their respective equity obligations. Each Consortium Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this agreement.

5. Subject to the terms of this agreement, the share of each Member of the Consortium in the "issued equity share capital of the project company" shall be in the following proportion: (if applicable)

Name	**Percentage of equity holding in the Project**
Party 1	…….
…….	…….
Party n	…….
Total	**100%**

[**Note:** The percentage equity holding for any Consortium Member in the Project cannot be zero in the above table]

6. The Lead Member shall inter alia undertake full responsibility for liaising with lenders and mobilizing debt resources for the Project and achieving financial closure.

7. In case of any breach of any of the equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.

8. Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.

9. It is further specifically agreed that the financial liability for equity contribution of Lead Member shall, not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of their scope of work or financial commitments.

10. It is expressly understood and agreed between the Members that the responsibilities and obligations of each of the Members shall be as delineated as annexed hereto as **Appendix-I,** forming integral part of this Agreement. It is further agreed by the Members that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint

and several responsibilities and liabilities of the Members, with regards to all matters relating to the Project.

11. It is clearly agreed that the Lead Member shall ensure performance under the Agreements and if one or more Consortium Members fail to perform its /their respective obligations under the Agreement(s), the same shall be deemed to be a default by all the Consortium Members.

12. This Consortium Agreement shall be construed and interpreted in accordance with the Laws of India and courts at **Delhi** alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.

13. It is hereby agreed that, the Lead Member shall furnish the bid bond, as stipulated in the RFP, on behalf of the Consortium Members.

Or

It is hereby agreed that, the Lead Member shall furnish the bid security declaration, as stipulated in the RFP, on behalf of the Consortium Members. [To be inserted for projects wherein RFP has been issued before 31.12.2021 otherwise to be deleted]

14. It is hereby agreed that in case of selection of Bidding Consortium as the selected bidder, the parties to this Consortium Agreement do hereby agree that they shall furnish the contract performance guarantee on behalf of the TSP in favor of the Nodal Agency, as stipulated in the RFP and Transmission Service Agreement.

15. It is further expressly agreed that the Consortium Agreement shall be irrevocable and shall form an integral part of the RFP Project Document and shall remain valid till the execution of the Share Purchase Agreement, unless expressly agreed to the contrary by the Nodal Agency. Over the term of the Transmission Service Agreement, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time shall apply on the Consortium Members.

16. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Consortium Members respectively from time to time in response to the RFP and for the purposes of the Project.

17. It is hereby expressly agreed between the parties to this Consortium Agreement that neither party shall assign or delegate its rights, duties or obligations under this Agreement except with the prior written consent of the Nodal Agency.

THIS CONSORTIUM AGREEMENT:

a. has been duly executed and delivered on behalf of each party hereto and constitutes the legal, valid, binding and enforceable obligation of each such party,

b. sets forth the entire understanding of the parties hereto with respect to the subject matter hereof;

c. may not be amended or modified except in writing signed by each of the parties and with prior written consent of the Nodal Agency.

IN WITNESS WHEREOF, the parties to the Consortium Agreement have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For and on behalf of Consortium Member 1 (Party 1)
M/s……

.....
(Signature of authorized signatory)

Name: …….
Designation: .....
Place: ……..
Date: ……

For and on behalf of Consortium Member n (Party n)
M/s……

.....
(Signature of authorized signatory)

Name: ……
Designation: .....
Place: ……..
Date: ……..

Attested:
……..
(Signature)
(Notary Public)

Place: ……..
Date: ……..

Note: In case of foreign Bidders, refer to clause 2.5.6 (p)

Appendix 1 to the Consortium Agreement:

Name of the Consortium Member	Responsibilities under the Consortium Agreement
M/s …… (Party 1)	
M/s ……	
M/s …… (Party n)	

ANNEXURE 7 A - FORMAT FOR QUALIFICATION REQUIREMENT

A. NET WORTH

To,
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" through tariff based competitive bidding process

1. [Note: Applicable in case of Bidding Company]

We certify that the Financially Evaluated Entity(ies) had a Networth of Rs. …… Crore or equivalent USD* computed as per instructions in this RFP based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Financially Evaluated Entity(ies)	Relationship with Bidding Company**	Financial Year	Networth (Rs. Crore)
1. ……..			
2. ……..			
3. ……..			
….			
Total Networth			

*Equivalent USD shall be calculated as per provisions of Clause 3.4.1.
** The column for "Relationship with Bidding Company" is to be filled in only in case financial capability of Parent/Affiliate has been used for meeting Qualification Requirements.

2. [Note: Applicable in case of Bidding Consortium]

We certify that the Financially Evaluated Entity(ies) had a minimum Networth of Rs. …….. Crore or equivalent USD* computed as per instructions in the RFP and based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Consortium Member	Equity Commitment in the Project (%)	Networth of Member (Rs. Crore)	Networth Requirement to be met by Member in proportion to the Equity Commitment (Rs. Crore)	Whether the Member meets the Networth Requirement
(1)	(2)	(3) (As per table below)	(4)= (2 x Total Networth requirement for the Project)	(5)
1. ……				Yes / No
2. ……				Yes / No
..				Yes / No
Total Networth for financial requirement				

Member – I (Lead Member)

[Note: Similar particulars for each Member of the Consortium is to be furnished, duly certified by the Member's Statutory Auditors]

i. Name of Member: .....

ii. Total Networth requirement: Rs …… Crore

iii. Percentage of equity commitment for the Project by the Member: ……%

iv. Networth requirement for the Member***: Rs. ……. Crore

v. Financial year considered for the Member: …….

Name of Financially Evaluated Entity(ies)	Relationship** with Member of Consortium	Financial Year	Networth (Rs. Crore)
1. …….			
2. …….			
3. …….			
Total Networth			

* Equivalent USD shall be calculated as per provisions of Clause 3.4.1;

** The column for "Relationship with Member of Consortium" is to be filled in only in case the financial capability of Parent / Affiliate has been used for meeting Qualification Requirements;

*** Networth requirement to be met by Member should be in proportion to the equity commitment of the Member for the Project.

Yours faithfully

……
(Signature and name of the authorized signatory of the Company and Stamp)

Name: …….
Date: …….
Place: …….

……
(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Consortium)

Name: …….
Date: …….
Place: …….

Date: …….

Notes:

1. Along with the above format, in a separate sheet, please provide details of computation of Networth of last three (3) financial years duly certified by Statutory Auditor.

2. Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.

3. In case Bidder or a Member of Consortium takes recourse to its Parent/Affiliate for meeting technical / financial requirements, then the financial years considered for such purpose should be same for the Bidder / Member of Consortium and their respective Parent / Affiliate.

ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT

To,
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" through tariff based competitive bidding process

1. To be used by Bidder using the development experience in infrastructure sector

We certify that M/s. …….. (Insert name of Technically Evaluated Entity(ies)) have experience of development of projects in the Infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. 500 Crore or equivalent USD*. We further certify that the capital expenditure of any single project considered for meeting the technical Qualification Requirement is not less than Rs. 100 Crore or equivalent USD*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.

The project(s) considered for the purpose of technical experience (as per table given below) have been executed and owned to the extent as indicated in the table below (to be atleast twenty – six percent (26%)) by the Bidding Company / Lead Member of the Consortium / our Parent / our Affiliate(s) [strike off whichever is not applicable] on operation of the projects.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (BOOT, BOT, BOOM, DBFOT etc.)	Relevant Infrastructure sector	Date of Financial Closure of the Project (in DD / MM / YYYY)	Date of Completion / Commissioning / Commercial Operation of partly completed projects	Project cost (Rs. Crore)	Percentage Equity Holding of Company at (1) in Completed project(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
……		……. (Project 1)						
……		…….						
Total (Rs. Crore)								

* Equivalent USD shall be calculated as per provisions of Clause ____

** The column for "Relationship with Bidding Company / Lead Member" is to be filled in only in case technical capability of Parent/Affiliate has been used for meeting Qualification Requirements.

We further certify that the Company(ies) as indicated in column (1) of the above table, whose technical capability has / have been used for meeting the qualification requirement, has / have held shareholding respectively of atleast twenty – six percent (26%)from the date of financial closure till the date of commissioning / completion of the above project(s).

2. To be used by Bidder using construction experience in infrastructure sector.

We certify that M/s. …….. (Insert name of Technically Evaluated Entity(ies)) have received aggregate payments not less than Rs. ……. Crore or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. We further certify that the payment received from each project shall not be less than Rs. ……. Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). For this purpose, payments received on projects that have been commissioned/completed at least seven (7) days prior to the Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity.

We also confirm that construction works does not include cost of land supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	**Relationship** with Bidding Company / Lead Member**	**Project name**	**Nature of Project (EPC, Turnkey etc)**	**Relevant Infrastructure sector**	**Date of award of contract (in dd/mm/yy)**	**Date of Completion / Commissioning**	**Payment received (Rs. Crore)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
……		……. Project 1					
……		…….					
……		…….					
	Total (Rs. Crore)						

Yours faithfully

……..
(Signature and name of the authorized signatory of the Company and stamp)

Name: ……..
Date: ……..
Place: ……..

……..
(Signature and Stamp of statutory Auditors of Bidding Company/ Lead Member of Consortium)
Name: ……..
Date: ……..
Place: ……..

Date: ……..

Notes:

1. Along with the above format, in a separate sheet, please provide details of computation of capital expenditure of projects duly certified by Statutory Auditor of the project company. In addition, the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed 7 days prior to Bid Deadline has been capitalized in the books of accounts.

   Additionally, in case construction experience is used, a certificate(s) from the statutory auditors stating the payments received and the concerned client(s) stating the works commissioned during the past 5 years in respect of the projects specified above. In case a particular job/ contract has been jointly executed by the Bidder (as part of a consortium), it should further support its claim for the share in work done for that particular job/ contract by producing a certificate from its statutory auditor or the client.

2. In case the accounts for the financial year in which the project claimed for meeting qualification requirement has been commissioned are not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, Bidder shall provide details of computation of capital expenditure of such project(s) duly certified by Statutory Auditor of the project company and the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed shall be capitalized in the books of accounts upon finalization.

3. The unconsolidated audited annual accounts of both the TEE and the Bidding Company / Lead Member for the respective financial years (financial years in which financial closure was achieved to the financial year in which the said project was completed / commissioned) should be submitted.

ANNEXURE 7C - FORMAT FOR TECHNICAL & FINANCIAL REQUIREMENT – RELATIONSHIP & DETAILS OF EQUITY SHAREHOLDING

[To be filled by Bidding Company / each Member of the Bidding Consortium including Lead Member if credentials of Parent and / or Affiliates have been used by them]

To,
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" through tariff based competitive bidding process

We certify that M/s. ……. (insert name of the **Bidding Company / Consortium Members**) have considered the technical and financial capability of its Parent and / or Affiliates, for the purpose of meeting Qualification Requirements as per the instructions provided in the RFP. The name of Parent and / or Affiliate, nature of relationship(s) with such Parent and / or Affiliate and details of equity holding are as follows:

Name of Company whose credentials considered	Type of credentials considered (technical and / or financial)	Relationship with Bidding Company / Consortium Member (Parent / Affiliate)	Details of equity shareholding (refer notes below)
Company 1			
…….			
…….			
…….			
……..			

NOTES:

i. In case of Parent, the equity holding of the Parent in the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, need to be specified.

ii. In case of Affiliate under direct control of Bidder, the equity holding of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium in the Affiliate, needs to be specified.

iii. In case of Affiliate under common control of Parent, the equity holding of the Parent in the Affiliate of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, needs to be specified.

iv. Relationship of Parent / Affiliate with Bidding Company / Member of Consortium to be at the most seven (7) days prior to the Bid Deadline (as per Clause 2.1.4 of RFP)

Yours faithfully

……

(Signature and name of the authorized signatory of the Company and stamp)

Name: ……
Date: ……
Place: ……

……

(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Bidding Consortium)

Name: ……..
Date: ……..
Place: ……..
Date: ……..

ANNEXURE 7D - ADDITIONAL INFORMATION FOR VERIFICATION OF FINANCIAL AND TECHNICAL CAPABILITIES OF BIDDERS.

…….

(Name of Bidder (Bidding Company/ Bidding Consortium or Technically/Financially Evaluated Entity(ies))

(Note: In case of Consortium, details to be filled in by Lead Member for each Member of the Consortium including the Lead Member and in case of the qualification requirements of Technically / Financially Evaluated Entity(ies) being used, to be filled by each of such entity(ies)

i. Financial capability (Attachment 1):

1. Bidders shall attach unconsolidated / consolidated audited annual accounts, statements, as the case may be, (refer Clause 2.1.3) for the last three (3) financial years as Attachment 1. Such unconsolidated audited annual accounts shall include a Balance Sheet, Profit and Loss Account, Auditors Report and profit appropriation account.

ii. Technical capability (Attachment 2):

a. This attachment shall include details of projects completed/commissioned or partly completed projects for which commercial operation has commenced to be considered for the purpose of meeting Qualification Requirements.

1. To be used by Bidder using development experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Capital cost of project(s) Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

***Note 1:** Date of completion/commissioning/commercial operation to be mentioned

Note 2: For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., BOO, BOOT, BOOM;

- Debt financing and equity raised and provided by Bidder/Bidder's Parent/Bidder's Affiliate for the project, including names of lenders and investors;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Clearances taken by the Bidder/Bidder's Parent/Bidder's Affiliate including but limited to right-of-way (RoW), forest clearance and other statutory / Govt. clearances.
- Cost data (breakdown of major components)
- Name of EPC and/or other major contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

2. To be used by Bidder using construction experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Revenue received Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

***Note 1:** Date of completion/commissioning/commercial operation to be mentioned

Note 2: For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., EPC, Turnkey;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project

- Cost data (breakdown of major components)
- Name of sub-contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

iii. Attachment-3:

a. For each project listed in Attachment 2 above, certificates of final acceptance and/or certificates of good operating performance duly issued by owners for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be issued by the authority / independent engineer of the project as defined in the respective project agreement.

For and on behalf of Bidding Company/Consortium

M/s…….

…….
(Signature of authorized signatory)

Name: ……
Designation: ……
Date: ……
Place: ……

ANNEXURE 8 -UNDERTAKING AND DETAILS OF EQUITY INVESTMENT

Format 1: Bidders' Undertakings

[On the Letter Head of the Bidding Company/Lead Member of Bidding Consortium]

Date: .....

To,

PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A.

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.

2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.

3. We give our unconditional acceptance to the RFP dated 28.09.2024 issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.

4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.

5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.

6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.

7. We have assumed that if we are selected as the Successful Bidder, the provisions of the Consortium Agreement, to the extent and only in relation to equity lock in and our liability thereof shall get modified to give effect to the provisions of Clause 2.5.8 of this RFP and Article 18.1 of the Transmission Service Agreement. ***(Note:*** *This is applicable only in case of a Bidding Consortium)*

8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from effective date	100 %	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
c)	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			
d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement)			

	at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line			

We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for the Project: 36 months from the Effective Date

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:

   a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory.

   b. Financial Bid is unconditional.

   c. Only one Financial Bid has been submitted.

10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of _____[Name of SPV], pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.

11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfill our obligations with regard to the Project as per the terms of RFP Project Documents.

12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

Signature and name of the authorized signatory of the Company and stamp of Bidding Company or Lead member of Consortium

Note:

1. In case of foreign Bidders, refer to clause 2.5.6 (p)

Format 2: Details of equity investment in Project

1.1.a Name of the Bidding Company/ Bidding Consortium:

1.1.b Name of the Lead Member in the case of a Bidding Consortium:

1.2 Investment details of the Bidding Company/Member of the Bidding Consortium investing in _____[Name of SPV] as per Clause 2.5.8.2.

S. No.	Name of the Bidding Company/ Member in case of a Bidding Consortium	Name of the Company investing in the equity of the _____[Name of SPV]	Relationship with Bidding Company /Member of the Bidding Consortium	% of equity participation in the _____[Name of SPV]
(1)	(2)	(3)	(4)	(5)
TOTAL				100%

* In case the Bidder proposes to invest through its Affiliate(s) / Parent Company / Ultimate Parent Company, the Bidder shall declare shareholding pattern of such Affiliate(s) / Parent Company / Ultimate Parent Company and provide documentary evidence to demonstrate relationship between the Bidder and the Affiliate(s) / Parent Company / Ultimate Parent Company. These documentary evidences could be, but not limited to, demat account statement(s) / Registrar of Companies' (ROC) certification / share registry book, etc duly certified by Company Secretary.

Members of the Consortium or the Bidding Company making investment in the equity of the _____[Name of SPV] themselves to fill in their own names in the column (3)

Signature and Name of authorized signatory in whose name power of attorney has been issued

Signature of authorized signatory

Name: …….

Designation: ……..

Date……

Company rubber stamp

ANNEXURE 9 -AUTHORISATION FROM PARENT / AFFILIATE OF BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM WHOSE TECHNICAL / FINANCIAL CAPABILITY HAS BEEN USED BY THE BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM.

[On the Letter Head of the Parent /Affiliate]

Name: …….
Full Address: …….
Telephone No.: ……..
E-mail address: ……..
Fax / No.: ……

To
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi – 110001.

Dear Sir,

Sub: Authorization for use of Technical / Financial Capability of M/s……. (Insert name of Parent / Affiliate) by M/s …….. (Insert name of Bidding Company / Member of Bidding Consortium).

We refer to the RFP dated 28.09.2024 ('RFP') issued by you for selection of Bidder as Transmission Service Provider for establishing the Inter-State Transmission System for **"North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".**

We confirm that M/s. ……. (Insert name of Bidding Company/ Consortium Member) has been authorized by us to use our technical and/or financial capability [strikeout whichever is not applicable] for meeting the Qualification Requirements for **"North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".**

We have carefully read and examined in detail the RFP including in particular, Clause 2.1.4 of the RFP, and we are also submitting legally binding undertaking supported by a board resolution that all the equity investment obligations of M/s……. (Insert Name of Bidding Company / Consortium Member), shall be deemed to be our equity investment obligations and in the event of any default the same shall be met by us.
For and on behalf of M/s……. (Insert Name of Parent / Affiliate)

……
(Signature and Name of the authorized signatory of the Company and stamp)

Name: ……
Date: ……
Place: ……

Notes:

1. The above undertaking can be furnished by Ultimate Parent of Technically Evaluated Entity or Financially Evaluated Entity, as the case maybe, if legally binding undertaking is also furnished by the Ultimate Parent on behalf of such Financially Evaluated Entity/Technically Evaluated Entity.

ANNEXURE 10- FORMAT OF UNDERTAKING BY TECHNICALLY / FINANCIALLY EVALUATED ENTITY / ULTIMATE PARENT COMPANY

[On the Letter Head of the Technically / Financially Evaluated Entity / Ultimate Parent Company]

Name: ……

Full Address: ……

Telephone No.: ……

E-mail address: ……

Fax/No.: ……..

To:
Chief Executive Officer
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi – 110001

Sub: **Undertaking for equity investment**

Dear Sir,

We refer to the Request for Proposal dated 28.09.2024 ('RFP') issued by you regarding setting up of Inter-State transmission system for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**" Project on build, own, operate and transfer basis.

We have carefully read and examined in detail the RFP and the RFP Project Documents, including in particular, Clause 2.1.4 of the RFP and Clauses 2.5.2 and 2.5.8 of the RFP, regarding submission of an undertaking regarding the investment in the equity share capital of _____[Name of SPV] and provisions for minimum equity holding and equity lock-in. We have also noted the amount of the equity investment required to be made in _____[Name of SPV] by the ……. [Insert the name of the Bidder or the Consortium Member] for the Project.

In view of the above, we hereby undertake to you and confirm that in the event of failure of ……[Insert the name of the Bidder or the Consortium Member] to invest in full or in part, in the equity share capital of _____[Name of SPV] as specified in the Bid, we shall invest the said amount not invested by…….[Insert the name of the Bidder or the Consortium Member] in _____[Name of SPV] by purchase of existing shares or subscribing to the new shares of _____[Name of SPV], as stipulated by you.

We have attached hereto certified true copy of the Board resolution whereby the Board of Directors of our Company has approved issue of this Undertaking by the Company.

All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the RFP.

Certified as true.

……..

(Signature and Name of the authorized signatory of the Company and stamp)

Note:

1. Wherever required, extract of the charter documents and documents such as a Board resolution should be submitted for verification.

ANNEXURE 11 - FORMATS FOR BOARD RESOLUTIONS

Format 1

Format of the Board resolution for the Bidding Company / each Member of the Consortium / investing Affiliate / Parent Company / Ultimate Parent Company, where applicable

[Reference Clause 2.5.2 of the RFP and the illustrations in Annexure 11A]

[Note: The following resolution no.1 needs to be passed by the Boards of each of the entity/(ies) making equity investment]

The Board, after discussion, at the duly convened Meeting on …….. [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956/2013, passed the following Resolution:

1. RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 / Companies Act 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for investment of…….% (……per cent) of the total equity share capital of _____[Name of SPV] representing the entire amount proposed to be invested by the company for the transmission system for **North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**, partly by acquisition of the existing equity shares from PFC Consulting Limited and / or partly by subscribing to the new equity shares, as per the terms of the RFP.

[Note: Equity investment obligations by the Bidding Company/each Member of the Bidding Consortium/investing Affiliate or Parent or Ultimate Parent should add up to 100%.]

[Note: In the event the Bidder is a Bidding Consortium, the following Board resolution no. 2 also needs to be passed by the Lead Member of the Bidding Consortium]

2. RESOLVED THAT approval of the Board be and is hereby accorded to contribute such further amount over and above the ;……. percentage (__%) limit to the extent becoming necessary towards the total equity share in the _____[Name of SPV], obligatory on the part of the company pursuant to the terms and conditions contained in the Consortium Agreement dated ……executed by the company as per the provisions of the RFP.

[Note: In the event, the investing entity is an Affiliate or Parent or Ultimate Parent of the Bidder, the following Board resolution no. 3 shall also be passed by the Bidder]

3. FURTHER RESOLVED THAT the Board hereby acknowledges the Board Resolution(s) passed by the…….. [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of…….(….%) of the equity share capital requirements of _____[Name of SPV], which is to be invested by the ……[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the _____[Name of SPV], partly by acquisition of the existing equity shares from PFC Consulting Limited and partly by subscribing to the new equity shares, as per the terms of the RFP.

[Note: The following resolution no. 4 is to be provided by the Bidding Company / Lead Member of the Consortium only]

4. FURTHER RESOLVED THAT MR/MS ……..be and is hereby authorized to take all the steps required to be taken by the Company for submission of the Bid, including in particular, signing of the Bid, making changes thereto and submitting amended Bid, all the documents related to the Bid, certified copy of this Board resolution or letter or undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

[Notes:

1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole Time Director/ Manager (supported by a specific board resolution) of the Bidding Company or the Lead Member of Consortium.

2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Bidding Company, each Member of the Bidding Consortium.

3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.]

Format 2

Format for the Board resolution of Technically / Financially Evaluated Entity / Ultimate Parent Company (in case credentials of such TEE/ FEE has been utilized by the Bidding Company or Bidding Consortium)

The Board, after discussion, at the duly convened Meeting on ……. [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956 / 2013, passed the following Resolution:

RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to the BPC, in the format specified in the RFP issued by the BPC, draft of which is attached hereto and initialed by the Chairman whereby the company undertakes to invest …….percent (.... %) of the total equity share capital of _____[Name of SPV] representing the entire amount proposed to be invested by ……[insert the name of the Bidder or Member] for the said Project, in case of failure of ……[Insert the name of the Bidder or Member] to make such investment".

FURTHER RESOLVED THAT .....,be and is hereby authorized to take all the steps required to be taken by the Company, including in particular, signing the said Undertaking, submitting the same to the BPC through ……[Insert name of Bidding Company/Lead Member of the Consortium] of all the related documents, certified copy of this Board resolution or letter, undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

Note:

1. This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole-time Director/Manager (supported by a specific board resolution) of Bidding Company or Lead Member of the Consortium.

2. The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.

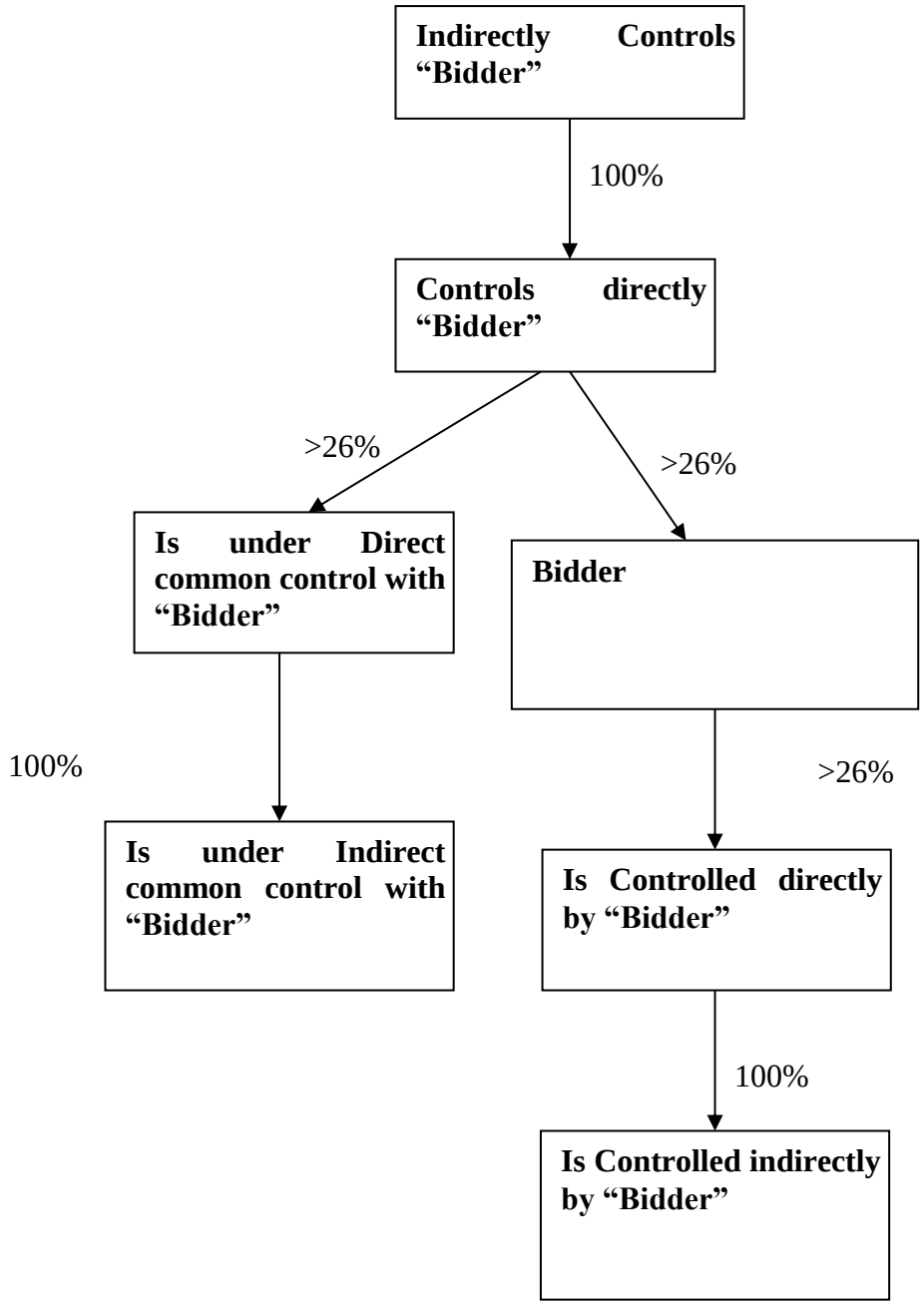
3. This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

ANNEXURE 11A – ILLUSTRATION FOR APPLICABLE BOARD RESOLUTION REQUIREMENTS UNDER CLAUSE 2.5.2

Investor in the TSP	Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria	Applicable Board Resolutions	Requirement of Undertaking (Annexure 10)
Bidder himself for 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1, 2 and 4 from the Bidder	None
Bidder himself for 100% equity	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1, 2, and 4 from the Bidder b) Format 2 of Annexure 11 by either Technically/ Financially Evaluated Entity(ies) whose credentials have been used, or Ultimate Parent. Provided, if the Bidder himself is the Ultimate Parent, then Format 2 need not be provided.	Yes, by either Technically / Financially Evaluated Entity(ies) Affiliate(s) whose credentials have been used, or Ultimate Parent. Provided, if the Bidder himself is the Ultimate Parent, then the undertaking need not be provided.
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in aggregate holding 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and4 from the Bidder. b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and /or Parent and /or Ultimate Parent investing in the equity	None
Bidder himself + others (Affiliate and/or Parent	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder. b) Format 1 of	Yes, by either Parent/ Affiliate(s) whose credentials have been used, or Ultimate Parent

Investor in the TSP	Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria	Applicable Board Resolutions	Requirement of Undertaking (Annexure 10)
Company and/or Ultimate Parent) in aggregate holding 100% equity		Annexure 11 - Resolution: 1 from the Affiliate and/or Parent and/or Ultimate Parent investing in the equity c) Format 2 of Annexure 11 by either Parent / Affiliate(s) whose credentials have been used and /or Ultimate Parent investing in the equity	

ANNEXURE 12 - FORMAT FOR ILLUSTRATION OF AFFILIATES



NOTE: **Bidder to provide the illustration, as applicable in their case, duly certified by the Company Secretary and supported by documentary evidence in this regard.**

ANNEXURE 13 - FORMAT FOR DISCLOSURE

[On the letter head of Bidding Company / Each Member in a Bidding Consortium]

Date: ……

DISCLOSURE

We hereby declare that the following companies with which we/ have direct or indirect relationship are also separately participating in this Bid process as per following details

S. No.	Name of the Company	Relationship
1.		
2.		
3.		

In case there is no such company please fill in the column "name of the company" as Nil.

Further we confirm that we don't have any Conflict of Interest with any other company participating in this bid process.

Certified as True

……..
(Signature)

Name: .....

Signature & Name of authorized signatory of the Company and Stamp

The above disclosure should be signed and certified as true by the authorized signatory of the Bidding Company or of the Member, in case of a Consortium).

ANNEXURE 14 - FORMAT OF THE BID BOND

FORMAT OF THE UNCONDITIONAL AND IRREVOCABLE BANK GUARANTEE FOR BID BOND

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the .....[Insert name of the Bidder] submitting the Bid inter alia for establishing the Inter-State transmission system for **North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A** on build, own, operate and transfer basis, in response to the RFP dated 28.09.2024 issued by PFC Consulting Limited , and the Bid Process Coordinator (hereinafter referred to as BPC) agreeing to consider such Bid of …… [Insert the name of the Bidder] as per the terms of the RFP, the [Insert name and address of the bank issuing the Bid Bond, and address of the Head Office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to _____[Name of BPC] or its authorized representative at _____[Address of BPC] forthwith on demand in writing from _____[Name of BPC] or any representative authorized by it in this behalf, any amount up to and not exceeding Rupees _____ Only (Rs _____ Crore),on behalf of M/s…….[Insert name of the Bidder].

This guarantee shall be valid and binding on the Guarantor Bank up to and including …… [Date to be inserted on the basis of Clause 2.11 of this RFP] and shall not be terminable by notice or any change in the constitution of the Guarantor Bank or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Guarantee is restricted to Rupees _____ Only (Rs ____ Crore). Our Guarantee shall remain in force until ……..[Date to be inserted on the basis of Clause 2.11 of this RFP]. _____[Name of BPC] or its authorized representative shall be entitled to invoke this Guarantee until …… [Insert Date, which is three sixty five days (365) days after the date in the preceding sentence]. The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from _____[Name of BPC] or its authorized representative, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to _____[Name of BPC] or its authorized representative.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Guarantor Bank shall not require _____[Name of BPC] or its authorized representative to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against _____[Name of BPC] or its authorized representative in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly _____[Name of BPC] or its authorized representative shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by _____[Name of BPC] or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees _____ Only (Rs ____ Crore) and it shall remain in force until …… [Date to be inserted on the basis of Clause 2.11 of RFP], with an additional claim period of three hundred sixty five (365) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this BANK GUARANTEE only if _____[Name of BPC] or its authorized representative serves upon us a written claim or demand.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this…….. day of ..... at……

Witness:

1……. Signature: ……..
Name and Address Name: ……..

2. ……. Designation with Stamp:
Name and Address

Signature ……..

Attorney as per power of attorney No……

For:
…… [Insert Name of the Bank]

Banker's Stamp and Full Address:

Dated this……day of……. 20……..

Notes:

5. The Stamp Paper should be in the name of the Executing Bank.

ANNEXURE 15 - FORMAT FOR CONTRACT PERFORMANCE GUARANTEE

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country)

In consideration of the …… [Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated …… and the other RFP Project Documents and the Nodal Agency and ……._[Name of BPC], agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the……[Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Nodal Agency at…… [Insert Place and Address of the Nodal Agency indicated in TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees……Crores (Rs……..) only [Insert the amount of the bank guarantee] on behalf of M/s…… [Insert name of the Selected Bidder / SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ……and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rupees ……. Crores (Rs……) only. Our Guarantee shall remain in force until…… [Insert the date of validity of the Guarantee as per Clause 2.12.1 of the RFP]. The Nodal Agency shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by _____[Name of SPV], …… [Insert name of the Selected Bidder], ……. [Insert name of the TSP] and/or any other person. The Guarantor Bank shall not require the Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Nodal Agency in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly the Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against _____[Name of SPV] or the Selected Bidder, to make any claim against or any demand on _____[Name of SPV] or the Selected Bidder, as the case may be, or to give any notice to _____[Name of SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against ……_[Name of SPV] or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees ……..Crores (Rs ……..) only and it shall remain in force until [Date to be inserted on the basis of Article 3.1.2 of TSA], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by…… [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Nodal Agency serves upon us a written claim or demand.

In witness where of:

Signature……

Name: ……

Power of attorney No.: ……..

For:

…… [Insert Name of the Bank]
Banker's Seal and Full Address, including mailing address of the Head Office

Notes:

1. The Stamp Paper should be in the name of the Executing Bank.

ANNEXURE 16 – FORMAT OF CHECKLIST FOR TECHNICAL BID SUBMISSION REQUIREMENTS

[This format needs to be duly filled in, signed by the authorized signatory of the Bidder (Bidding Company / Lead Member in case of a Bidding Consortium) and submitted along with the Bidder's Technical Bid]

Technical Bid Submission Requirements			Response (Yes / No)
1.	Format for the Covering Letter on the letterhead of Bidding Company or Lead Member of the Consortium, as applicable;		
2.	Format for Letter of Consent from each Consortium Member, including Lead Member, on their respective letterheads;		
3.	Format for evidence of authorized signatory's authority ;		
4.	Board resolution from the Bidding Company / Lead Member of the Consortium in favour of the person executing the Power of Attorney as per **Annexure 3**;		
5.	Power of Attorney from each Consortium Member in favour of Lead Member to be provided by each of the other Members of the Consortium as per **Annexure 4**;		
6.	Board Resolution from each Member of the Consortium, other than the Lead Member, in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats;		
7.	Format for Bidder's composition and ownership structure, along with status of equity holding (owning ten percent or more of the total paid up equity) not earlier than thirty (30) days prior to the Bid Deadline as per **Annexure 5**;		
8.	Consortium Agreement duly signed as per **Annexure 6**, along with Appendix-1, indicating the responsibilities and obligations of each Member of the Consortium;		
9.	Format for Qualification Requirement:		
	a.	Calculation sheets, detailing computation of Networth considered for meeting Qualifying Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / each Member in case of a Bidding Consortium / FEE in cases where credentials of FEE is taken;	
	b.	Calculation sheets, detailing computation of capital expenditure of projects and revenue received in construction projects considered for meeting	

Technical Bid Submission Requirements			Response (Yes / No)
		Qualification Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / Lead Member in case of Bidding Consortium / TEE in cases where credentials of TEE is taken;	
	c.	Last financial year unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity	
	d.	Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, from the financial years in which financial closure was achieved till the financial year in which the said project was completed / commissioned.	
10.	Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.		
11.	Attachment of **Annexure 7(D)**, detailing projects completed / commissioned and for which commercial operation has commenced including Executive Summary for each project.		
12.	For each project listed in the attachment above, certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory in support of technical capability as defined in Clause 2.1.2 of RFP.		
13.	Authority letter in favour of BPC from the Bidder/every Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.		
14.	Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.		
15.	Initialing of all pages of Technical Bid by the Authorized Signatory in whose favour the POA (**Annexure 3**) has been executed.		
16.	Format for Illustration of Affiliates at the most seven (7) days prior to the Bid Deadline, duly certified by Company Secretary and supported by documentary evidence.		

Technical Bid Submission Requirements		Response (Yes / No)
17.	Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with **Annexure 12**.	
18.	Format for Disclosure by Bidding Company / each Member of the Consortium.	
19.	Format for Affidavit by the Bidding Company / each Member of the Consortium	
20.	Format for Authorization submitted in Non-Judicial stamp paper duly notarized.	
21.	Bidders Undertaking and details of Equity Investment	
22.	Proof of Payment of RFP Fees	
23.	Bid Bond/ Bid Security Declaration (As applicable)	
24.	Board Resolution as per Annexure 11 (If required)	

[**Note:** The checklist is not exhaustive. Bidders are required to submit all the information/documents as per requirement of RFP]

For and on behalf of Bidder

M/s. …….

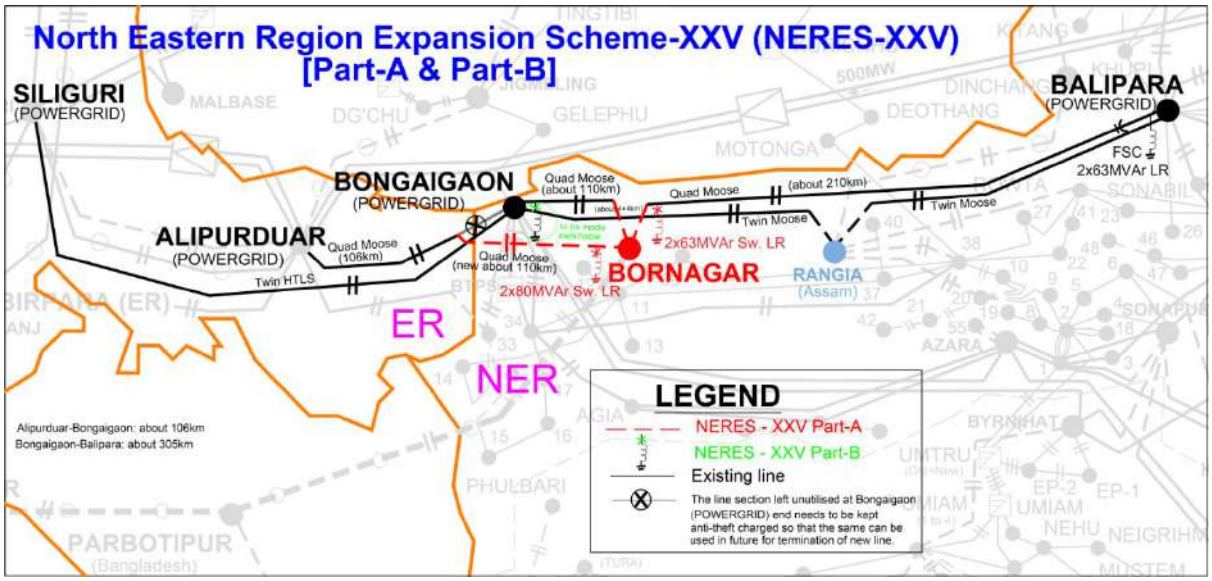
……..
(Signature of authorized signatory)

ANNEXURE 17 – LIST OF BANKS

The list of banks shall include all Scheduled Commercial Banks as per Second Schedule of RBI Act-1934 and any amendments thereof.

Note:
The above list of banks is indicative and can be modified by the BPC as required and any such change shall not be construed as a deviation from this document.

ANNEXURE 18 - GRID MAP OF THE PROJECT



ANNEXURE 19 - FORMAT FOR CLARIFICATIONS / AMENDMENTS ON THE RFP / RFP PROJECT DOCUMENTS

S. No.	Name of the Document	Clause No. and Existing provision	Clarification required	Suggested text for the amendment	Rationale for the Clarification or Amendment

Signature ……

Name……..

For

Bidder's Rubber Stamp and Full Address.

(Note: This format shall be used for submission of requests for clarifications/ amendments on the draft RFP Project Documents as per the provisions of Clause 2.3.1)

ANNEXURE 20 - LIST FOR RFP PROJECT DOCUMENTS

ENCLOSURE 1: TRANSMISSION SERVICE AGREEMENT (Provided separately)

ENCLOSURE 2:SHARE PURCHASE AGREEMENT (Provided Separately)

……..

[To be inserted by the BPC]

ANNEXURE 21 - FORMAT FOR FINANCIAL BID

[To be uploaded online]

Quoted Transmission Charges ……..

Notes

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.

2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.

3. The contents of this format shall be clearly typed.

4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.

5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.

ANNEXURE 22 – FORMAT FOR AFFIDAVIT

[On non-judicial stamp paper. Foreign companies submitting bids are required to follow the applicable law in their country]

AFFIDAVIT

We [including any of our Affiliate and Consortium Member & any of its Affiliate], hereby declare that as on Bid Deadline:

a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel have not been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies; or

b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors have not been convicted of any offence in India or abroad.

We further declare that following investigations are pending / no investigation is pending [strike off whichever is not applicable] against us [including any of our Consortium Member or Affiliate or Parent or Ultimate Parent or Affiliate] or CEO or any of our directors/ manager/key managerial personnel of the Applicant /Consortium Member or their Affiliates.

We further undertake to inform the BPC of any such matter as mentioned above on its occurrence after the date of this affidavit till the Effective Date.

We undertake that, in case, any information provided in relation to this affidavit is found incorrect at any time hereafter, our BID / Letter of Intent / contract (if entered) would stand rejected / recalled / terminated, as the case may be.

…….
Signature and Name of the authorized signatory of the Company Bidding Company / Lead Member of the Bidding Consortium

……..
(Signature of Notary Public)

Place: ……
Date: ……

Note: In case any investigation is pending against the Applicant, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Applicant

/Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed under this affidavit.

ANNEXURE A

Technical Details with respect to electronic bidding

Registration Methodology

In order to submit online bids in the e-bidding process for selection of Transmission Service Provider, interested Bidders are required to register themselves with the e-procurement website of MSTC limited namely www.mstcecommerce.com/eprochome/tsp/index.jsp. To register with the website, the Bidder is required to fill up the online form available under the link Register as Vendor in the above website and fill up the same and click on Submit.

During this process, the Bidder shall create his user id and password and keep note of the same. The Bidder shall ensure that the secrecy of his user id and password is maintained at all time and he/she shall alone be responsible for any misuse of the user id and password.

The Bidder may check the details entered by it before final submission. On successful submission of the online registration Form, the Bidder shall receive a confirmation mail in the registered email address advising the Bidder to submit the following documents.

i. Self-attested Income Tax PAN Card. In case of a registered Company or Firm, the Firm's PAN card and in case of a proprietorship firm, proprietor's personal PAN card is required. In case of partnership firm, PAN of the firm and that of the authorized partner are to be submitted.

ii. Copy of the confirmation email Letter received from MSTC after successful completion of on-line registration.

iii. A non-refundable registration fee of Rs.10,000/- plus GST as per applicable rate to be paid online. The account details will be available in the System generated email sent by MSTC post registration.

Please provide details of payment made like UTR No, remitting bank name, date of payment and amount in the covering letter.

The Bidder shall have to submit all the above documents to MSTC Limited for verification and activation of their login ids. The Bidders should send scanned copies of the above documents to the designated email id only which is given below.

tsp@mstcindia.co.in

It may be noted that Bidders need not visit any of the offices of MSTC Limited for submission of the documents.

Contact persons of MSTC Limited:

Ms. Archana Juneja
9990673698

Mr. Setu Dutt Sharma
7878055855

Once the complete set of documents and requisite registration fee are received from a Bidder, MSTC shall activate the Bidder's login after verification / scrutiny of the documents. MSTC Limited reserves the right to call for additional documents from the Bidder if needed and the Bidder shall be obliged to submit the same.

On completion of the above stated registration process, a Bidder shall be able to login to MSTC's website.

ANNEXURE B

Draft Pre-Award Integrity Pact

GENERAL

This pre-bid contract Agreement (herein after called the Integrity Pact) is made on …….. day of the month of …… 20……, between, on one hand, …… [Insert name of BPC] through Shri …….. [Insert Name & designation of representative of BPC] (hereinafter called the "Bid Process Coordinator/ BPC", which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) of the First Part and M/s …… represented by Shri …….. [Insert Name & Designation of Authorized Signatory of the Bidder/ Lead Member of Consortium] (hereinafter called the "Bidder" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BPC is conducting the bidding process for selection of bidder as Transmission Service Provider (TSP), who will be responsible to set up the transmission project on build, own, operate and transfer (BOOT) basis and to provide Transmission Service.

WHEREAS the Bidder is a Private Company/Public Company/Government Undertaking/ Partnership, constituted in accordance with the relevant law in the matter and the BPC is a Public Sector Undertaking (PSU) performing its function on behalf of the Ministry of Power, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings during the complete bidding process with a view to:-

Enabling the BPC to select the bidder as TSP in conformity with the defined procedures by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling Bidder to abstain from bribing or indulging in any corrupt practice in order to emerge as selected bidder by providing assurance to them that their competitors will also abstain from bribing and other practices and the BPC will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of BPC

1.1 The BPC undertakes that no official of the BPC, connected directly or indirectly with the bidding process, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the bidding process in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

1.2 The BPC will, during the bidding stage, treat all bidders alike, and will provide to all bidders the same information and will not provide any such information to any particular bidder which could afford an advantage to that particular bidder in comparison to the other bidders.

1.3 All the officials of the BPC will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case of any such preceding misconduct on the part of such official(s) is reported by the Bidder to the BPC with the full and verifiable facts and the same is *prima facie* found to be correct by the BPC, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BPC and such a person shall be debarred from further dealings related to the bidding process. In such a case while an enquiry is being conducted by the BPC the proceedings under the bidding process would not be stalled.

Commitments of Bidder

3. The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre award stage in order to emerge as Selected Bidder or in furtherance to secure it and in particular commits itself to the following:-

3.1 The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the bidding process in exchange for any advantage in the bidding, evaluation, contracting and implementation of the bidding process.

3.2 The Bidder further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to

any official of the BPC or otherwise in bidding process or for bearing to do or having done any act in relation to bidding process or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the bidding process or any other contract with the Government.

3.3 The Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates.

3.4 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid.

3.5 The Bidder further confirms and declares to the BPC that the Bidder has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BPC or any of its functionaries, whether officially or unofficially for selection of Bidder as TSP, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The Bidder, either while presenting the bid or during pre-award negotiations or before signing the Share Purchase Agreement, shall disclose any payments he has made, is committed to or intends to make to officials of the BPC or their family members, agents, brokers or any other intermediaries in connection with the bidding process and the details of services agreed upon for such payments.

3.7 The Bidder will not collude with other parties interested in the bidding process to impair the transparency, fairness and progress of the bidding process.

3.8 The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The Bidder shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BPC as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.12 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BPC.

4 Previous Transgression

4.1 The Bidder declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidder's exclusion from the bidding process.

4.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5 Bid Bond (Security Deposit)/ Bid Security Declaration (as applicable)

5.1 Along with the technical bid, the Bidder shall submit Bid Bond for an amount of Rs……. (as per the amount specified in Request for Proposal (RFP) Document) issued by any Banks from the list provided in RFP Document as Earnest Money/Security Deposit, with the BPC.

5.2 The Earnest Money/Security Deposit shall be valid & retained by the BPC for such period as specified in the RFP Document.

5.3 No interest shall be payable by the BPC to the Bidder on Earnest Money/Security Deposit for the period of its currency.

6 Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the BPC to take all or anyone of the following actions, wherever required:-

(ii) To immediately call off the pre-award negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.

(iii) The Bid Bond (in pre-award stage) shall stand forfeited either fully or partially, as decided by the BPC and the BPC shall not be required to assign any reason therefore.

(iv) To immediately cancel the award, if already awarded, without giving any compensation to the Bidder.

(v) To cancel all or any other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to the BPC resulting from such

cancellation/rescission.

(vi) To debar the Bidder from participation in any tender or RFP issued by any BPC for an indefinite period.

(vii) To recover all sums paid in violation of this Pact by Bidder to any middleman or agent or broker with a view to securing the award.

6.2 The BPC will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (vi) of this Pact also on the Commission by the Bidder or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Bidder), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BPC to the effect that a breach of the provisions of this Pact has been committed by the Bidder shall be final and conclusive on the Bidder. However, the Bidder can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7 Independent Monitors

7.1 The BPC has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).

Shri Rajiv Ranjan
No. 170, 11th Cross, 3rd Main,
RMV Stage 2, Dollars Colony,
Bengaluru North,
Bengaluru- 560094
Mob No – 9448147003
Email ID- rranjan68@gmail.com

Shri Jeyakodi Virusankulam Kumarasamy, IAS (Retd.)
R/o 3F, Orchid Villa,
6" Avenue,
Harrington Road, Chetpet,
Chennai-600031
Mob No – 9176699444
Email ID- jeyakodivk@gmail.com

7.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The Monitors shall not be subject to instructions by the representatives of the parties

and perform their functions neutrally and independently.

7.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

7.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BPC.

7.6 The Bidder accepts that the Monitors has the right to access without restriction to all Project documentation of the BPC including that provided by the Bidder. The Monitor shall be under contractual obligation to treat the information and documents of the Bidder /Subcontractors(s) with confidentially. [As all the bid documents are with BPC only]

7.7 The BPC will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the monitor the option to participate in such meetings.

7.8 The Monitor will submit a written report to the designated Authority of the BPC/Secretary in the Department within 8 to 10 weeks from the date of reference or intimation to him by the BPC / Bidder and, should the occasion arise, submit proposals for correcting problematic situations.

8 Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BPC or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder and the Bidder shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

9 Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BPC.

10 Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any extent law in force relating to any civil or criminal proceedings.

11 Validity

11.1 The validity of this Integrity Pact shall be from date of its signing and upto 6 months from the date of transfer of project specific SPV i.e. signing of Share Purchase

Agreement with BPC. In case Bidder is unsuccessful, this Integrity Pact shall expire after 15 days from the date of transfer of project specific SPV to successful bidder.

11.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The Parties hereby sign this Integrity Pact at_____ on _____.

Bid Process Coordinator (BPC)	**BIDDER**
Name of the Officer Designation Name of the BPC with address Witness: 1._____ 2. _____	Name of Whole time Director/Authorized Signatory Name of the Bidder with address Witness: 1._____ 2. _____

ANNEXURE-C

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations/ guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable.

A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.

A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring the reliability of the line, if so desired and /or deemed necessary.

A.4.0 Transmission line shall be designed considering wind zones as specified in the wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of High Intensity Winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring the reliability of the line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, the higher of the two wind zones shall be considered for design of towers located in such sections.

A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

A.6.0 (A) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

(B)For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

(C)For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

(D)For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.

A.7.0 The relevant conductor configuration shall be as follows: -

Name of line: (i) Alipurduar (Powergrid) - Bornagar (ISTS) 400 kV D/C (Quad) line

(ii) LILO of both ckt of existing Bongaigaon (Powergrid) - Balipara (Powergrid) 400 kV D/C (Quad) Line at Bornagar (ISTS)

Type of conductor: ACSR / AAAC / AL59

Basic parameters:

Transmission line	**ACSR Conductor specified**	**Equivalent AAAC conductor based on 53% conductivity of Al Alloy**	**Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy***	**Sub-conductor Spacing**
400 kV D/C (Quad Moose) Transmission Lines	**Moose: Stranding** 54/3.53 mm-Al + 7/3.53 mm-Steel, 31.77 mm diameter 528.5 mm^2, Aluminium area, Maximum DC Resistance at 20°C (Ω/km): 0.05552 Minimum UTS: 161.20 kN	**Stranding details:** 61/3.55 mm 31.95 mm diameter; 604 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.05506 Minimum UTS: 159.80 kN	**Stranding details:** 61/3.31 mm 29.79 mm diameter; 525 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.0566 Minimum UTS: 124.70 kN	457 mm

Note:

1. *To select any size above the minimum, the sizes mentioned in the Indian standard i.e IS-

398 (part-6) should be followed.

2. ***The transmission lines shall have to be designed for a maximum operatingconductor temperature of 85 ^{O}C.***

A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV line shall be governed by the tower design as well as minimum live metal clearances for 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m.

A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

Minimum live metal clearances for 400 kV line:

a) (i) Under stationary conditions:

From tower body: 3.05 m

(ii) Under Swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22º)	3.05 m
b) Swing angle (44º)	1.86 m

b) Minimum ground clearance: 8.84 m

c) Minimum mid span separation between earthwire and conductor: 9.0 m

A.10.0 Shielding angle shall not exceed 20 deg for 400 kV transmission line.

A.11.0 The Fault current for design of line shall be 63 kA for 1 sec for 400 kV.

A.12.0 In case of 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.

A.13.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance at tension tower for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flooddischarge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line. In order to optimize the route, use of GATISHAKTI platform shall also be made.

A.16.0 Wherever, transmission lines are passing through cyclone prone areas i.e., areas up to 60 km from coast following shall also be applicable:

a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction, which also includes open sea coasts, open stretch of water, desert and flat treeless plains.

b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.

c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.17.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m^2 of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m^2 of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.

b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m^3

c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).

d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.

e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL.

A.18.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with

steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

A.19.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State Transmission Utilities/Central Transmission Utility passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

A.20.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

A.21.0 Safety precautions in regard to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed **400 kV substation Bornagar (ISTS)** shall be conventional AIS type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time.

Other CEA Regulations/guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

B.1.0 Salient features of Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

B.1.1 Insulation Coordination

The system design parameters for substations/switchyards shall be as given below:

Sl No.	Description of parameters	400 kV Bornagar (ISTS) S/s
		400 kV System
1.	System Operating Voltage	400 kV
2.	Maximum voltage of the system (rms)	420 kV
3.	Rated frequency	50 Hz
4.	No. of Phases	3
5.	Rated Insulation levels	
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	 1425 kVp 1550 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1050 kVp
iii)	One-minute power frequency dry withstand voltage (rms)	630 kV
6.	Corona Extinction Voltage	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	13020 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	10500 mm (25 mm/kV)
10.	Max. Fault Current	63 kA
11.	Duration of Fault	1 Sec

B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	765 kV side (Future)	**400 kV side**	220 kV side (Future)
400 kV Bornagar (ISTS) S/s	One and Half breaker	**One and Half breaker**	Double Main and Transfer

Notes: -

i) At 400 kV voltage level, any double circuit line consisting of two numbers of feeders and originating from a transmission or generating switchyard shall not be terminated in one diameter.

ii) Two bus reactors of the same HV rating shall also not be connected in the same diameter.

iii) A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.

iv) TSP shall plan distribution of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing the thermal limit at any point of bus bar.

v) Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.

B.2.0 Substation Equipment and facilities (Voltage level as applicable):

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following minimum capacity.

Sl. No.	**Description of bay**	**400 kV Bornagar (ISTS) S/s**
1.	Bus Bar	4000 A
2.	Line bay	3150 A
3.	Bus Reactor Bay	3150 A
4.	Switched Line Reactor Bay	3150 A

B.2.1 420 kV, 3-phase, Shunt Reactor

125 MVAr, 80 MVAr and 63 MVAr, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)", as amended up to date, available on CEA's website.

Neutral Grounding Reactor and Surge Arrester for 400 kV Switchable Line Reactors:

The neutral of the switchable line reactors (wherever provided) shall be grounded through adequately rated Neutral Grounding Reactors (NGR) to facilitate single phase auto-reclosure, provided that the NGR shall be provided with suitable bypass arrangement so that the switchable line reactor can be used as bus reactor as and when required. The neutral of bus reactor shall be solidly grounded.

NGR shall be oil filled or dry type air core for outdoor application. NGR shall conform to CEA's "Standard Specifications and Technical Parameters of Transformers and Reactors (66 kV and above Voltage Class)", as amended up to date. Technical parameters of NGR shall be as specified in Annexure-A of above-mentioned document.

The surge arresters (rated voltage of arrester in co-ordination with ohmic value of NGR shall be decided by the TSP) shall be provided and physically located between the neutral of shunt reactor (brought out at 145 kV class bushing) and neutral grounding reactor. The surge arresters shall be of Station Medium (SM) class duty gapless Metal Oxide (ZnO) type conforming in general to IEC-60099-4. The Surge Arresters shall be hermetically sealed units, of self-supporting construction, suitable for mounting on structures.

The Ohmic value of NGR for Line Reactors shall be as follows:

S. No.	Line Name	NGR Value
1.	Installation of 420 kV, 1x80 MVAr switchable line reactor at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	500 Ohm
2.	Installation of 420 kV, 1x63 MVAr switchable line reactor at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line	400 ohm

B.2.2 400 kV AIS Substation equipment

B.2.2.1 Circuit Breakers (AIS)

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF6 Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike

probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 400 kV circuit breakers. 400 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits, which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to achieve without use of opening resistors. The controlled switching device shall be provided in Circuit breakers of switchable line reactor and in Main and Tie circuit breakers of line with non-switchable line reactors, bus reactors and Transformers of voltage class 400 kV and above.

B.2.2.2 Isolators (AIS)

The solators shall comply with IEC 62271-102 in general. The 400 kV isolators shall be double break type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV shall be of extended mechanical endurance class - M2. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. The 400 kV earth switches for line isolator shall be suitable for induced current switching duty as defined for Class-B.

B.2.2.3 Current Transformers (AIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 400 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for the protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than five (5) for CTs up to 400 kV voltage class.

B.2.2.4 Capacitive Voltage Transformers (AIS)

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.2.5 Surge Arresters (AIS)

336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV systems. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactor so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.3 Protection Relaying and Control System

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

a. Transmission Lines Protection

The 400 kV shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. The 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of the same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential Relay (with back up distance protection feature) as Main–I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. The associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For the 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

b. 400 kV Reactor Protection

Reactor shall be provided with the following protections:

i) Numerical Differential Protection.
ii) Numerical Restricted Earth Fault Protection
iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

c. Bus Bar Protection

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 400 kV buses. Duplicated bus bar protection is envisaged for 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as future bays envisaged i.e. input / output modules for future bays for the bus section under present scope and PUs shall also be provided by the respective bay owners.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

d. Local Breaker Back up Protection

This shall be provided for each 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

Notes:

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

B.2.4 Substation Automation System

a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation System, where the controls shall be provided through Bay Control Units. The Bay Control Unit is to be provided bay wise for voltage level 400 kV and above. All Bay Control Units as well as protection units are normally connected through an Optical fiber high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System (SAS).

At new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In the existing substations with Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under present scope.

In the existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real time grid operation. Accordingly, all the hardware for communication services of the station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

b) **Time Synchronization Equipment**

Time Synchronization Equipment complete in all respect including antenna, cable, processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

B.3.0 Substation Support facilities

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and would be extended/ augmented as per requirement.

B.3.1 AC and DC power supplies

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged: -

i) For LT Supply at each new Substation, two (2) Nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.
At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.

For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

(a) 415 V Main Switch board – 1 No.
(b) AC distribution board – 1 No.
(c) Main lighting distribution board – 1No.
(d) Emergency lighting distribution board – 1 No.
(e) 220 Volt DC distribution board – 2 Nos.
(f) 48 Volt DC distribution board – 2 Nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC and DC distribution boards shall have equipped modules for all the feeders (including future as specified).

iv) At new Substation, one No. of DG set (minimum 500 kVA for substations with highest voltage rating as 765 kV) shall be provided for emergency applications.
v) For substation extensions, existing facilities shall be augmented as required.

B.3.2 Fire Fighting System

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

B.3.3 Oil evacuating, Filtering, Testing and Filling apparatus

To monitor the quality of oil for satisfactory performance of transformers, shunt reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

B.3.4 Illumination

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaires.

B.3.5 Control Room

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) alongwith its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays also.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

B.3.6 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

B.3.7 Visual Monitoring System (VMS) for watch and ward of substation premises:

Visual Monitoring System for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the Visual Monitoring System if available shall be augmented as per existing or better specification as required.

B.4 General Facilities

a) Line Gantry/Towers are envisaged for bays under the present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors for 765 kV and 400 kV future lines and Twin conductor for 220 kV future lines) wherever applicable.

b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.

c) TSP has to arrange for construction power and water on its own.

d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 gm/m^2 and 900 gm/m^2 for coastal/creek regions (if applicable).

e) In 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future bay shall be designed considering the current rating of line bay i.e. 3150 A.

f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of the complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from Finished Ground Level (FGL).

g) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above HFL, it shall be ensured that there is no seepage or leakage or logging of water.

h) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and CEA Manual on Transmissions Planning criteria 2023, line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

B.5 EXTENSION OF EXISTING SUBSTATION

Bidder is also advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage etc. and also the design philosophy.

SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, CEA (Cyber Security in Power Sector) Guidelines, 2021 and CERC Guidelines on "Interface Requirements" 2024 all above documents as amended from time to time.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

The communication services viz. SCADA, VoIP, PMU, AGC and AMR (wherever applicable) have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide following requirements**:**

C.1.0 Establishment of new 400 kV Bornagar(ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future).

i) TSP shall supply, install and commission minimum 1 No. FODP (120 F or higher) along with panel and Approach Cables (24F) with all associated hardware fittings from gantry towers to Control Room for all the incoming lines envisaged under the present scope.

ii) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment along with panel/s supporting minimum five directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any) at Bornagar S/s. Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement between Bornagar to repeater station/ Balipara S/s, Bornagar to repeater station/Bongaigaon S/s and Bornagar to repeater station /Alipurduar S/s. The suitable DC Power Supply and backup to be provided for communication equipment.

iii) FODP and FOTE equipment with panels shall be provided in Control Room of New Bornagar S/s. FOTE and FODP can be accommodated in same panel to optimize space.

iv) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.

v) TSP shall supply, install and commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.

vi) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMUs, DCPS along with Battery Bank and Firewall shall be the responsibility of TSP.

C.2.0 LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS)

On LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS), TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:

i. For Multi Circuit Tower Configuration: Two (2) No. OPGW cable containing 24 Fibres (24F) each on both the Earthwire peaks.

ii. For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) No. OPGW cable containing 24 Fibres (24F) to be installed by TSP on one earthwire peak and conventional earthwire on other earthwire peak for both Loop In and Loop Out Lines.

The TSP shall install OPGW cables from gantry of Bornagar S/s up to the LILO tower with all associated hardware including Vibration Dampers, LILO tower, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at Bornagar. TSP to also provide suitable optical interfaces/equipment at Balipara, Bongaigaon station FOTE to meet link budget requirement for connectivity with Bornagar Station if required. The transmission line length of LILO portion is 08 kms (approx.), if after survey additional repeater required to meet the link budget requirement of Balipara -Bornagar and Bornagar-Bongaigaon link the same shall be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further, TSP shall comply with the repeater requirements mentioned as per Appendix-F.1.

Maintenance of OPGW Cable and **OPGW Hardware** shall be responsibility of TSP.

C.3.0 Disconnection of Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV D/C (quad) line.

TSP shall supply, install and commission One (1) No. OPGW cable containing 24 Fibres (24F) on one E/W peak from disconnection point tower of existing Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line to the gantry of 400 kV Bornagar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Bornagar Substation. The TSP shall integrate this newly laid OPGW with existing OPGW at disconnection point to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV OPGW link. The Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV transmission line length is approx. 216 km however after survey line length may exceed from 216 km. To meet link budget requirement of Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV link (including service loops and sag etc.) repeater may be required to be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply with the requirements mentioned as per Appendix-F.1.

During disconnection of Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV D/C (quad) line, connectivity of all existing operational communication links through Bongaigaon has to be ensured by TSP. For the same TSP shall coordinate with regional ULDC team and provide required(if any) FOTE/interfaces/approach cables/patch chords etc. at Alipurduar, Bornagar and Bongaigaon to form Alipurduar-Bornagar-Bongaigaon link.

Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP.

C.4.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) at all the locations under the scope of TSP under this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any), and all the other applicable Regulations, Standards, Guidelines issued time to time. The signal list shall be as per the Annexure-I Part-B of CERC Guidelines on “Interface Requirements” 2024. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

Appendix-F.1

Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 No. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 No. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

  TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.

  TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

  OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 No. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 No. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

  OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 No. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

Maintenance of OPGW Cable and **OPGW Hardware**, repeater equipment and items associated with repeater shelter shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), PMUs, Voice etc. for smooth operation and monitoring of new added grid elements.

Annexure-F.1

Next Generation Firewall (NGFW)

TSP shall provide 2 Nos. Next Generation Firewalls (NGFW); one No. Main and one No. Standby mode having electrical ethernet interfaces/ports and placed between FOTE and SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

Minimum 16 Nos. of ports/interfaces in each firewall (i.e. Main and Standby). TSP can use either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

Annexure F.2

Specifications of Next Generation Firewall (NGFW)

1. NGFW shall have following features including but not limited to:

   Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) and Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) and Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.

2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP and UDP packets. It shall have the provision to define application control list based on application group and/or list.

3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching

4. Firewall shall have Management Console port to configure remotely.

5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.

6. Firewall shall be rack mounted in existing standard equipment cabinets.

7. Firewall shall have support of SCADA applications (IEC-60870-5-104), ICCP, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.

8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux and Mac.

9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.

10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance. Firewall shall have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.

11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.

12. Firewall shall have the capability to configure sufficient number of VLANs.

13. Firewall shall have the capability to support sufficient number of sessions.

14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 Nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPSec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPSec VPN throughput shall support at least 300 Mbps

15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security

16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.

17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality

18. Shall support simultaneous operation with both IPv4 and IPv6 traffic

19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization

20. Firewall shall have the features of port as well as MAC based security

21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.

22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.

23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

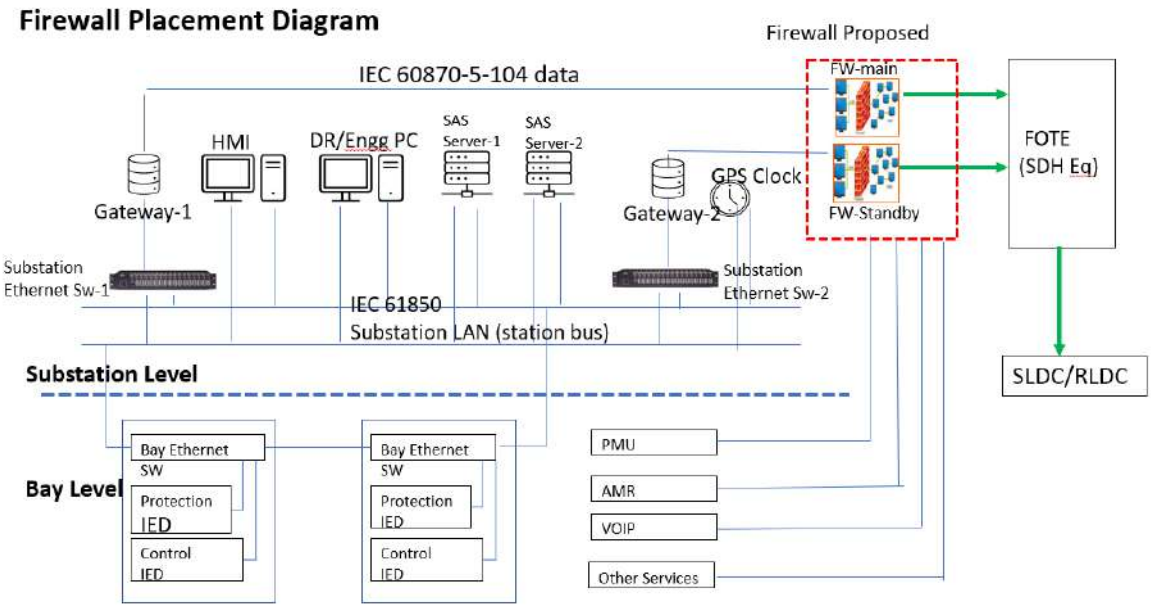
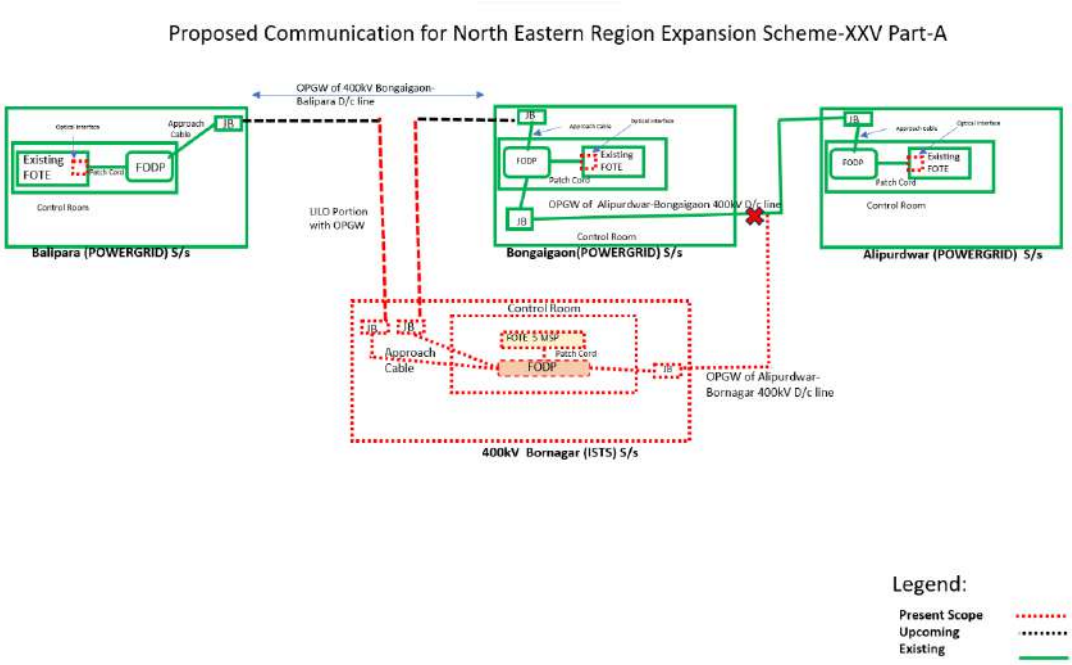


Figure F.2



C.5.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following:

- Coupling device, Coupling Filters, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.

- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centers (RLDC/SLDC) etc.

- Coupling devices shall be suitable for phase to phase coupling for 765 kV and 400 kV Transmission lines. The pass band of coupling devices shall have sufficient marginfor adding communication channel in future if required. Necessary protection devicesfor safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.

- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in caseof extreme frequency congestion.

- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be

considered for both ends of the line.

- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one setof Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP.

- TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).

- TSP shall provide new set of PLCC as per following configuration:

Sl. No.	**Line Section**	**PLCC configuration**
1.	400 kV Alipurduar (Powergrid) - Bornagar (ISTS) D/C Line	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.
2.	400 kV Bongaigaon (Powergrid) - Bornagar (ISTS) D/C line [after LILO]	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.
3.	400 kV Bornagar (ISTS) - Balipara (Powergrid) D/C line [after LILO]	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.

Annexure – G

SPECIFIC TECHNICAL REQUIREMENTS FOR INTEGRATION OF COMMUNICATION EQUIPMENT WITH REGIONAL LEVEL NMS / REGIONAL UNMS:

The new communication equipment/ system for all the substations under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment at the station end shall be the responsibility of TSP as per **Annexure G.1**. The configuration work in the existing centralized NMS/ CSMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Annexure G.1

Requirement for integration of Communication Equipment with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory – Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance- real time and periodic, Performance KPI parameters (E-1, STM, Ethernet) , Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1 , STM, Ethernet , TX and RS Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files/ etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:

   - Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual.

Annexure-H

Frequently Asked Queries:

1.0 Transmission Line:

1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

Reply: Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as the shutdown of ISTS lines is concerned the same can be availed by approaching the respective Regional Power Committee.

1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

Reply: It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

Reply: Power line crossing including Diamond configuration is the responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

Reply: Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.

1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide the type of insulator along with

creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

Reply: The minimum specific creepage distances shall be decided for the pollution condition in the area of installation. It shall be as per CEA regulations and relevant standards.

2.0 Substation

2.1 We understand that space for storage of O&M spare shall be provided by the existing owner within the station boundary without any cost. Kindly confirm.

Reply: Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

Reply: Operation and maintenance of the bays is solely the responsibility of the TSP. Further, Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understating between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023.

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

(a) We assumed internal road is available and need not to consider in the present scope of work.

(b) Drainage is available and need not to consider in the present scope of work.

(c) Cable trench extension in adjacent to the Main cable trench only under present scope of work.

(d) Levelled area being provided by developer for bay extension.

Reply: Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

Reply: Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

Reply: It will be on a chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

Reply: VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by the respective substation owner for construction of new bays.

Reply: Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that the existing fire hydrant system shall be extended by the TSP for bay extension.

Reply: Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify the Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

Reply: The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT is required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

Reply: Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class matches with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.

Reply: Web page link https://www.ctuil.in/formats_gna_transition

2.12 Please clarify whether the spare 765kV single phase Reactor unit for Bus reactor shall be provided with 1ph 765 kV CB.

Reply: As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765kV CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

2.13 It is understood that existing busbar protection has provision for future bays and also PUs is available for future bays. BPC to confirm availability of CU and PU for bays under present scope of work at existing substations. BPC may kindly confirm availability of communication ports for

integrating new PUs with the existing CUs at existing substations.

Reply: Bus Bar Protection with Central Unit (CU) is required for the new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.

Reply: Necessary process I/O along with license shall be in the scope of the successful bidder.

2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

Reply: Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm.It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

Reply: PLCC for 220 kV line is in the scope of developer of the line. Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.

Reply: Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, the control room shall be augmented as per requirement.

3.0 Communication

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

Reply: User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

Reply: The space related issues are deliberated in the RFP itself. TSP to install FOTE/FODP panels

in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kisok/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete the communication path upto RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 & 132kV lines where only one E/W peak is available TSP to install one No. 48F OPGW.

Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 24F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in the case of Multi circuit Towers?

Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two No. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

Incase 220/132kV lines using multi circuit portion where single E/W peak is available one No. 48F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

Reply: PMU data of new bays to be provided in the ethernet port of switch at control room and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fibre Optic cable

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

Reply: The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of substation for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room,

the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

Reply: Tentative Location of LILO point shall be as per survey report of BPC however exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

Reply: All OPGW (alongwith optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

Reply: TSP to provide PMUs for all bays under their scope of RFP.

4.0 Planning :

4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.?

Reply: Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No.: 04/24-25/ITP-95/RFP

November 19, 2024

To
Mr. Anchit Narula
Sterlite Grid 32 Limited
9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
DLF Cyber Park Gurugram – 122001

E-mail: sterlite.bd@sterlitepower.com

Subject: Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" – Regarding Clarification and Amendment No. 1 to RFP documents.

Dear Sir,

This has reference to the issuance of RFP documents on September 28, 2024 for Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

In this regard, the queries raised by bidders on RFP documents have been examined and clarifications are enclosed at **Annexure-I** for your information and necessary action.

Further, Amendment No. 1 is also attached at **Annexure-II** for your information and necessary action.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

Encl.: As above

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
1.	A.6.0	**(**A) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing. (B)For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement. (C)For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement. (D)For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.	**(A) Under crossing of the existing transmission line of same Voltage shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.** (B) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing. (C) For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

			(D)For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement. (E)For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.
2.	A.22.0	**New Clause**	**The stringing of the transmission line in forest area shall be carried out through drone.**
3.	A.23.0	**New Clause**	**The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.**
4.	**All the relevant clauses of RFP, TSA and SPA "SPV [which is under incorporation]"**		**All the relevant clauses of RFP, TSA and SPA "SPV [which is under incorporation]" in the subject RFP, TSA and SPA may be read as "NER EXPANSION TRANSMISSION LIMITED"**
5	**Schedule 1 of**	<u>Annexure – A</u> A. North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	

	TSA **……** **…….**	i) Description of the Transmission Scheme: Bongaigaon substation is gateway to North Eastern Region (NER) grid as all synchronous interconnections to NER originate from this substation. Bongaigaon substation is a flood affected area and any mishap at the substation could jeopardise power supply situation in NER as all existing ER-NER AC interconnections are only through Bongaigaon substation. Thus, in order to improve reliability and security of power supply to NER, establishment of a 2nd 400 kV AC node for interconnection with National Grid has been planned at Bornagar in Assam. This substation is essential to create an alternative path for ER-NER interconnection. The Bornagar substation is being initially planned as 400 kV switching station with provision to establish 765 kV and 220 kV levels in future as per system requirements. The substation is planned to be set up through LILO of both circuits of Bongaigaon – Balipara 400 kV D/C (Quad) line and extension of the existing Alipurduar – Bongaigaon 400 kV D/C (Quad) line from Bongaigoan S/s to Bornagar S/s so as to form Alipurduar – Bornagar 400 kV D/C (Quad) line. This would help in enhancing the stability and reliability of the NER grid and creating an alternate ER-NER path. The subject scheme was agreed in the 32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER) held on 26-06-2024. The scheme was further deliberated and approved for implementation through TBCB route in the 21st meeting of National Committee on Transmission (NCT) held on 06-08-2024. NERES-XXV Part-B comprising of *"Conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/C line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement."* is being taken up by POWERGRID

in matching timeframe of NERES-XXV Part-A.

ii) Detailed Scope of Work: North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.
(a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) Additional space for future expansion: • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8	• 420 kV, 1x125 MVAr Bus Reactor: 2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) –

			Nos. • 400 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 220 kV line bays: 10 Nos. • 4x330 MVAr, 765kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays • 765 kV Bus Sectionaliser: 1 set • 400 kV Bus Sectionaliser: 1 set • 220 kV Bus Sectionaliser: 1 set • 220 kV Bus Coupler bays: 2 No. • 220 kV Transfer Bus Coupler bays: 2 No.	Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] iii) 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)]	
		(b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID)	About 8 km (4 km Loop-in + 4 km Loop-out)	

			400 kV D/C (Quad) line at Bornagar (ISTS)	
		(c)	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	About 110 km additional line section
		(d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	• 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x80 MVAr - 2 Nos.

		(e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line	• 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.

Note:

(i) *#Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon*

		has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged. (ii) *The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.*

S. N.	Name of the document Clause No. and Existing provision	Clarification required	Reply to Bidder
1.	RFP "Final Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest "Initial Offer" shall be deemed to be the Final Offer;	Presently, details of L-1 bidder are not displayed on conclusion of e-RA if there is no receipt of counterbids. In case, two bidders have quoted the same L1, they would be under false impression of having L1 tariff of their own and may not offer further competitive offer. In such scenario, e-RA shall end resulting in premature conclusion of e-RA process. It is requested to update the e-RA platform accordingly to reflect the status of L1 bidder under the above scenario.	The e-RA will be conducted as per SBDs and the details of the successful bidder will be intimated only after conclusion of e-Reverse Auction (e-RA) process. In e-RA, two bidders cannot have same price bid as every bid has to be necessarily less than the previous bid. In case of Initial Offer as bids are encrypted, two bidders may quote the same initial price offer. But in e-RA even if a single bid is received, two bidders cannot be at the same price offer. If the Initial Offer for two or more bidders is same and no bids are quoted in e-RA, the instant case seems to be hypothetical however in such case the decision of the competent authority shall prevail.
2.	**RFP document and TSA Provisions of RFP** Clause 1.5 …. The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or	Query-1 Treatment of tax application at the end of the life of assets.	Definition of Project Assets is amply clear. The insurance proceeds will also be transferred by TSP.

	its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto. **Provisions of TSA** Definitions: "Project Assets" shall mean all physical and other assets relating to and forming part of the Project including: (a) rights over the Site for substations, ROW for transmission lines; (b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Substations, software, tower and sub-stations designs etc; (c) project facilities situated on the Site; (d) all rights of the TSP under the project agreements; **(e) financial assets, such as receivables, security deposits etc;** **(f) insurance proceeds; and** (g) Applicable Permits and authorisations relating to or in respect of the Transmission System;" **2.2.2** Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the State Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this	As per section 50C of Income tax act, in case sale consideration received or claimed to be received by seller on sale of land or building or both is less than value adopted by stamp valuation authority (SVA), such value adopted by SVA would become actual sale consideration received or accruing to the seller. Therefore, capital gain would be Valuation as per stamp valuation authority reduced by cost/indexed cost of acquisition. Treatment of Capital tax and applicable TDS to be clarified. Query-2 Modality of transfer of assets to be defined. In case only assets to be transferred then application of stamp duty & other taxes and its treatment to be clarified. Query-3 Modalities for O&M, other expenditure etc. for the transition period of 90 days may be confirmed. Availability calculation for the said period? Query-4	The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTUIL or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. All the expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP. Any taxes, stamp duties and liabilities, as may be applicable, has to be borne by the TSP.

	Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto	There could be delay in receipt of payment against receivables. Further, the TSP might have some pending claims against insurance company. How shall TSP receive these legitimate pending claim or charges after transfer of asset to CTU? Query-5 Please confirm that any taxes or charges or cost to be borne by the TSP at the transfer time including sale at value lower than fair value shall be reimbursed to the TSP. These costs are not known at this point of time and might be significant in amount. TSP cannot be exposed such charges. Query-6 Modalities for O&M, other expenditure etc. for the transition period of 90 days may be confirmed.	
3.	RFP Clause 2.7.2	The important timelines are mentioned in the table including shortlisting and announcement of Qualified bidder, proposed date of issuance of LoI, transfer of SPV etc.	The timelines for shortlisting of qualified bidders and subsequent conduction of e-RA shall be done as per timelines stipulated in the RFP.

		It is observed in the past that in case, there is extension in bid submission date, the revised timelines are not being provided regarding issuance of LoI, transfer of SPV etc. Further, in case of delay in shortlisting of qualified bidders, it is requested to provide the updated dates of financial bid opening and date of conduction of e-RA etc., atleast 1 week prior to financial bid opening, to enable bidders to take appropriate action for participation in e-RA It is requested to kindly provide the updated table in case of extension in bid submission date/ delay in shortlisting of qualified bidders.	
4.	**RFP** 2.15.3 After the date of acquisition of the equity shareholding of SPV [which is under incorporation], along with all its related assets and liabilities, by the Selected Bidder, i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,	Role of BPC has to be complete. i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency, save for those which are related to and consequent to the bidding process adopted by the BPC	The role of BPC ends with the transfer of SPV to the successful bidder. However, it may be noted that the BPC shall fulfil its responsibility of providing the certification from the Bid Evaluation Committee to enable the TSP to obtain Transmission license and adoption of Transmission charges.
5.	**RFP**	What are the obligations that the BPC has	The details of the contractual

	2.15.3 iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.	undertaken which needs to be fulfilled by the TSP? Suggested Text for amendment:2.15.3 iv. Contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP if only such contractual obligations have been made available to the bidders 15 days prior to the bid deadline. Rationale for seeking clarifications: Nature of contractual obligations cannot be left open as the same is to be fulfilled by the TSP.	obligations (if any) of BPC to be fulfilled by the TSP shall be intimated as per the provisions of RFP.
6.	**RFP & TSA** **Provision of RFP** 2.15.4 Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003 Provision of TSA 3.1.1…….The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as	Query-1 We request you to consider at least 30 days' time for completion of these activities. Query-2 Definition of working day is not defined in the TSA. Therefore, it is requested to define working day to avoid ambiguity and litigation later on Suggested Text for amendment: Within thirty (30) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of	This is as per the Standard Bidding Documents. No change is envisaged.

	required under section-63 of the Electricity Act …….	Transmission Charges, as required under Section – 63 of The Electricity Act 2003	
7.	**RFP** 2.15.6 If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for-annulment of award of the Project	In case TSP fails to obtain the Transmission License the reasons for the same have to be examined. Suggested text for amendment: 2.15.6 If the TSP fails to obtain the Transmission License from the Appropriate Commission, the treatment shall be as per provisions 3.3 of the TSA. Rationale for seeking for clarifications: bProvisions of 3.3 of TSA provides for consequences for non-fulfilment of conditions subsequent. The provisions of RFP as such have to be reflective of TSA.	This is as per the Standard Bidding Documents. The provisions of RFP documents shall prevail.
8.	**RFP** **General**	Kindly confirm: whether the Project / Elements are covered under "Generation linked Project" or "System Strengthening Project"	It is a system expansion scheme.
9.	**RFP** **General**	Kindly confirm: i) Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.	The provisions in TSA pertaining to commissioning shall prevail which interalia covers the matter of preponing of CoD. The TSP may approach the Committee constituted by MoP vide its OM No. 15/1/2013-Trans dated 14.12.2021 to ensure smooth operationalization of

			the Policy for early commissioning.
10.	**RFP** **General**	BPC is requested to confirm, whether the project/Elements of the project are a part of Associated Transmission System (ATS) as per definition of Connectivity and General Network Access to the inter-State Transmission System, Regulations, 2022.	The project is not a part of the Associated Transmission Scheme (ATS).
11.	**RFP** **General**	BPC is requested to provide the details of transmission element(s) of subject project, for which any delay in construction of transmission elements by TSP resulting in mismatch of these elements viz-a-viz. generation station(s) or Unit(s), TSP shall be liable to make payments viz., transmission charges to generation station(s) or unit(s). under clause 13.8, Sharing of Inter-State Transmission Charges and Losses, Regulations, 2020.	There is no upstream/ downstream associated with this project.
12.	**RFP and TSA** **The definition of Contract Year in RFP is as under:** "Contract Year" shall mean the period beginning on the **Scheduled COD**, and ending on the immediately succeeding March 31 and thereafter each period of 12 …: And the definition of Contract Year in TSA is as under: "Contract Year", for the purpose of payment of Transmission Charges, shall mean the period beginning **on the COD**, and ending on the immediately …"	As per RFP, the Contract Year shall start from the Scheduled CoD whereas as per TSA, the Contract Year shall start the CoD. As such, both the definitions are contradictory in nature. It is requested to clarify the correct definition of Contract Year.	The provisions of RFP and TSA are amply clear.
13.	**TSA**	There should be a provision in the TSA to	This is as per the Standard

	Clause no 2.3: Conditions prior to the expiry of the Transmission License 2.3.1 In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date. 2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.	cover the revenue loss that may be incurred by the TSP, in the case of the Appropriate Commission not granting extension of the Transmission License beyond the period of 25 years. Rationale for seeking clarifications: The Transmission Charges to be quoted by the bidders would be based on the cash flow generated from the Project for 35 years and if, for any reason not attributable to the TSP (including any change in law), the Transmission License is not extended by the Appropriate Commission beyond 25 years the TSP will suffer significant losses. The RFP / TSA should be suitably modified to provide security of continuation of the transmission business for at least 35 years.	Bidding Documents. The provisions of TSA shall prevail.
14.	**TSA** 3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities **within six (6) months** from the Effective Date (except for c) below), …….. c) To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. …. h) **To award the Engineering, Procurement and**	As per clause 3.1.3 h, the EPC contracts to be awarded in 6 months. Whereas as per clause 3.1.3 c, TSP is required to submit Project Execution Plan after awards of Contracts within 120 days. TSP shall not be in a position to submit project plan within 120 days from effective date if the award of EPC contract is awarded after 120 days, but before 6 months period. As such, the timelines mentioned in above clauses are contradictory and the same may be reviewed.	Section 3.1.3 clearly states that a period of 6 months is not applicable to clause (c).

	Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed;		
15.	**TSA** Clause 3.3.1: If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months..... in accordance with the provisions of this Agreement	Suggested text for amendment: Suggested text to be added at the end of this Article: "..... The additional Contract Performance Guarantee, if any provided by the TSP for delay in fulfilment of condition subsequent, shall be returned by the CTUIL on fulfilment of conditions subsequent by the TSP" Rationale for seeking clarifications:The additional CPG is for specific default(s) and once such default(s) cease to exist, this additional amount of CPG should be returned. Additional CPG cannot be held back by the CTUIL till COD of the Project.	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.
16.	**TSA** Clause no 3.3.4: In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the	The terms and conditions for termination of the TSA under this Article, including the termination payment and status of the SPV, need to be provided in the TSA. Rationale for seeking clarification: In case the Force majeure event continues, the TSA will be terminated and the CPG will be returned. Other expenses that would have been incurred till the date of termination of the TSA including the Acquisition Price paid for	In such cases, provisions of Article 3.3.5 and Article 13.6.1 of TSA shall apply.

	Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1. ……	Acquiring the SPV and other incurred costs shall also be explicitly stated. There should be an explicit provision for refund of the Acquisition Price, along with the other expenses incurred by the TSP / Selected Bidder till such date of termination.	
17.	TSA 3.3.4 …… Provided, that due to the provisions of this Article 3.3.4, …... If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9 11.7 (e) Available Relief for a Force Majeure Event For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost,…..	In case project suffers from Force Majeure event for a period less than 6 months, interest cost during construction may be considered.	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.
18.	TSA 4.6 Interconnection Facilities: 4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities. 4.6.2 In order to remove any doubts, it is made clear that the	It is understood that if interconnection facilities at the interconnection point is not available, whereas TSP has completed rest of the scope of the project, the project shall be considered as deemed COD and TSP shall be entitled to all the benefits envisaged under the TSA.	The provisions of TSA are amply clear and shall prevail.

	obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.		
19.	Section-I of RFP And TSA **6.1 Connection with the Inter-connection Facilities:** 6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency. 6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2. Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD. 6.2.2 Once any Element of the Project has been declared to	Reference is drawn to the Order of CERC 4/ADP/2016 dated 23.03.2016. Relevant extract of the Order is reproduced hereunder: "In the event the inter-connection facilities are not ready by SCOD or by revised SCOD (as may be revised by the petitioner and the LTTCs for the purpose of availing incentive as per MOP Policy) on account of non-readiness of the upstream or downstream transmission assets while the petitioner`s transmission system is ready for commissioning, the COD of the transmission assets of the petitioner may be declared in accordance with the provisions of Article 6.2 of the TSA (to be known as "deemed COD") and the LTTCs/developers of the upstream and downstream assets shall be liable to pay the transmission charges from the deemed COD till the transmission assets are put into actual use." From above, it is seen that even in case of SCOD when the systems are declared deemed COD as per Article 6.2 of TSA, till the transmission assets are put into actual use, the transmission charges are liable to be	The provisions of Article 6 of TSA are in line with the existing CERC Regulations and shall prevail.

	have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element.	paid by DICs/developers of the upstream and downstream assets. In such situations, it shall be construed that BPC has obtained consent of the DICs/ Upstream / Downstream / Generators (as applicable) for payment of transmission charges. Further, as per CERC order no. 104/MP/2018 dated 18th September 2018, downstream was directed to pay transmission charges to TSP.	
20.	**TSA** **Clause 6.3.1 (b)** In case of delay due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.	Clause 6.3.1 (b) covers the loss on debt amount which includes, due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements. However, any loss on the equity is not covered in the above clause. In order to compensate for the loss due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, compensation to both equity as well as debt to be covered as per clause 6.3.1 (a).	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail
21.	TSA 10 BILLING AND PAYMENT OF TRANSMISSION	Any changes in CERC regulations, which have an implication on Billing cycle and/or	This is as per the Standard Bidding Documents. The

	CHARGES 10.3 Rebate & Late Payment Surcharge	cost implication to the TSP due to change in rebate and late payment surcharge, the same shall be allowed to be recovered under Change in law.	provisions of TSA shall prevail.
22.	**TSA** Clause no. 10.1: Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of this agreement, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.	Suggested Text for amendment: Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD **or deemed to have achieved COD** until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement. Rationale for seeking clarification: As per clause 6.2 of the TSA, the TSP is eligible for payment of Transmission charges from the date of deemed COD.	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.
23.	TSA 11.4 Force Majeure Exclusions (g) Any error or omission in the survey report provided by BPC during the bidding process.	The survey report furnished by BPC has to be accurate and any error or omission has to be owned by the BPC. Professional fees including fees for survey report is also claimed by BPC.	BPC appoints designated survey agencies to conduct a survey, prepares the Survey Report and furnish the same to bidders. Bidders may refer to clause 2.5.7.3 of RFP.
24.	TSA Clause 12.1.1 Change in Law means the occurrence of any of the following **after the Bid Deadline** resulting into any additional recurring / non-recurring expenditure by the TSP or any	It is mentioned that in case any change in law event occurs on bid submission date or just prior to bid submission date, the bidders shall not have adequate time to understand the cost implication of such	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.

	savings of the TSP….	change in law event. Bidders cannot be exposed to such uncertainties and thereafter it is requested to consider any event **after 7 days prior to bid deadline as Change in Law event.** Furthermore, the bid submission is fixed at 12 noon. Whereas change in event could happen during the day even after 12 noon. Such clause can have serious implications on the viability of the project.	
25.	**TSA** 12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change: a. Taxes on corporate income; and; and b. Withholding tax on income or dividends distributed to the shareholders of the TSP.	Any tax applied on the income or profits of the TSP need to be covered under change in law. Rationale for seeking clarification: Tax is an element beyond the control of the TSP. Change in tax or introduction of any tax is covered under change in law. Tax rate applicable on the income or profits of the TSP is beyond the control of the TSP and to assume the same for 35 years shall be a risk which is best assumed by the LTTCs accordingly this is to be reviewed.	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail. Further, please refer to Clause 2.5.7 of RFP.
26.	**TSA Clause 13.7** If Agreement is terminated on account of Force Majeure Events, nonrequirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project	Kindly furnish the methodology of calculation of valuation of project asset.	Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer to Clause 18.2.e. of the TSA

	Assets. Upon payment, the Nodal Agency shall take over the Project Assets		
27.	TSA **Clause 10.1.2.1** **10.1.2.1** 1 Any amount payable under an Invoice shall be paid in immediately available and freely transferable clear funds, for value on or before the Due Date, to such account of the TSP or Long Term Transmission Customer as shall have been previously notified to Long Term Transmission Customer or the TSP, as the case may be **10.3 Rebate & Late Payment Surcharge:** **10.3.1 Rebate:** In case the Long Term Transmission Customer pays to the TSP through any mode of payment in respect of a Monthly Transmission Charge Invoice or Supplementary Bill, the following shall apply: a. For payment of Invoices through any mode of payment, a Rebate of 2% shall be allowed on the Monthly Transmission Charge Invoice or Supplementary Bill for payments made in full within two Business Day of the receipt of the Invoice; or b. For payment of Invoices subsequently, but within the Due Date, a Rebate of 1% shall be allowed on the payments made in full. and **others**	Timelines for payment of transmission charges is linked to "due date". However, the "due date" is not defined in the TSA. It is requested to provide the definition of "due date" to avoid confusion and litigation.	Clause not applicable to this Transmission Scheme.
28.	RFP Format 1 of Annexure 11 and others Resolution No 1 "… and is hereby accorded for investment of…….% (……per cent) of the total equity share capital of SPV [which is under incorporation] representing…"	The name of SPV is not furnished. As the Board approval is the first activity to undertake the bidding process for the project, it is requested to provide 45 days from date of informing SPV name to bidders as Board resolution requires name of the SPV.	Please refer Amendment No.1 dated 19.11.2024 in this regard.

		Alternatively, the bidder may be permitted to go ahead with the Board approval process as the format of RFP (without name of SPV) for timely submission of the bid.	
29.	RFP Clause 2.1.2 " Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than Rs……. Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than Rs…… Crore or equivalent USD (calculated as per provisions in Clause 3.4.1 For this purpose, capital expenditure incurred on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity…..".	As per QR, the capital expenditure under reference shall be as capitalised and reflected in the audited books of accounts of Technically Evaluated Entity. In above regard, please clarify the following: Whether entire capital expenditure of various Project(s), meeting the value-wise threshold requirements of QR, as capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered. OR Whether only the capital expenditure incurred in the last five years of such Project(s), capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered.	This is as per the Standard Bidding Documents. No change is envisaged
30.	RFP Clause 2.11 Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.	Verification of issued bid bond is done by the beneficiary bank of the BPC through SFMS platform from the issuing bank of the bidder. In above regard, BPC is requested to provide following details.	The requisite information shall be provided before bid submission.

		- Bank account detail of beneficiary alongwith IFSC code and Branch address - Unique Identifier of the beneficiary (if applicable) (The unique identifier needs to be incorporated by the issuing bank in Field 7037 of the IFIN 760 COV/IFIN COV while transmitting verification messages to the Beneficiary Bank through SFMS).	
31.	RFP Annexure 14 (Format of the Bid Bond) Addressee details are not mentioned in the beginning of the format Annexure 14 (Format of the Bid Bond) "….In consideration of the……"	Addressee details to whom Bid Bond is to be addressed are not mentioned in the Bid Bond Format. It is requested to mention the followings at starting of the format: Annexure 14 (Format of the Bid Bond) ***" To,*** ***Designation of officer*** ***Name of BPC*** ***Address of BPC*** In consideration of the…… "	The Bid Bond is to be addressed to PFC Consulting Limited.
32.	RFP Clause 1.6.2.2 – The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain **Consents, Clearances and Permits**	BPC to get the **GST registration and GST TAN** registration in the name of SPV in the State of Project execution where supply of Goods and Services shall take place.	Presently, the GST registration of the SPV was not being done by the BPC as there is no income of SPV and are in compliance with GST laws.
33.	SPA Clause 1.2 (i)	As per clause 1.2 (i) of the Share Purchase agreement, BPC is required to provide	Audited Financial Statements shall be furnished post

<table>
<tr><td></td><td>"Acquisition Price" shall mean INR _____ (Rupees _____ only) [Insert the value of the Acquisition Price, both in figures and in words respectively], which is the aggregate consideration payable by the Selected Bidder towards purchase of the Sale Shares at par along with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;</td><td>audited financial statement as on the closing date for adjustment, if any, in regard to aggregate consideration for acquisition of the SPV.

It is requested to BPC to furnish audited financial statement within 15 days of the closing date.

Rationale for seeking clarification: Audited financial statement is required for accounting in the books of successful bidder to ascertain acquisition price on closing date. An undertaking that the audited financial statements shall be provided within 15 days from the closing date may be furnished by BPC for making the payment of acquisition price by successful bidder.</td><td>completion of audit by the auditors.</td></tr>
<tr><td>34.</td><td>General
Name of the SPV</td><td>Name of the SPV is not mentioned</td><td>Please refer Amendment No.1 dated 19.11.2024 in this regard.</td></tr>
<tr><td>35.</td><td>Scope of Transmission scheme, RFP
<table>
<tr><td>Sl. No.</td><td>Name of Transmission Element</td><td>Scheduled COD in months from Effective Date</td></tr>
<tr><td>1</td><td>Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future</td><td>36 Months</td></tr>
<tr><td>2</td><td>LILO of both circuits of existing Bongaigaon (POWERGRID) –</td><td></td></tr>
</table></td><td>Establishment of new 400 kV Bornagar (ISTS) switching station in Assam :

ii) BPC is requested to confirm whether "Bornagar" is classified as Greenfield generation Pooling Substation/ Load serving station or Greenfield intermediate Substation.</td><td>Bornagar is a Greenfield switching station.</td></tr>
</table>

	Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	
3	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end…. … … …	
4	Installation of 420 kV, 1x80 MVAr switchable line reactor …..	
5	Installation of 420 kV, 1x63 MVAr switchable line reactor …..	

36.	ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY …Know all men by these presents, We ……(**name and address of the registered office of the Bidder**…	As per the format of Power of Attorney, the bidder is required to mention the name and registered office of the bidder. In case corporate office of the bidder is in different state than that of its registered office, can the bidder execute the Power of Attorney in the state of its corporate office?	This is as per the Standard Bidding Documents. The provisions of the RFP shall prevail.
37.	Scope of Transmission scheme, RFP	Kindly provide the element wise break up for determining the transmission charges based on availability.	All elements of the scheme are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other

Name of Transmission Element	**Scheduled COD**	**% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of**

			the Project		
	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 Months	**100%**		
	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)				
	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end…. … … …				
	Installation of 420 kV, 1x80 MVAr switchable line reactor …..				
	Installation of 420 kV, 1x63 MVAr switchable line reactor …..				
38.	Clause No. 2.5, Section – II of RFP Documents 2.5 The Bidding Process … … … The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by **30 minutes** from the last received bid time, if the bid is received during the last **30 minutes** of the scheduled or extended bid time. Subsequently, it will be extended again by **30 minutes** from			Suggested text for amendment : 2.5 The Bidding Process …. …. The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by **15 minutes** from the last received bid time, if the bid is received during the last **15minutes** of the scheduled or extended bid time. Subsequently, it will	The provisions of RFP and TSA are amply clear in this regard.

	the latest received bid time. … … …	be extended again by **15 minutes** from the latest received bid time. **In case e-Reverse Bidding is not completed by 20:00 Hrs (IST), then the e-Reverse Bidding shall be paused and will resume on the next working day at 10:00 Hrs (IST). The prevailing L1 bidder at the time of pause on the previous day shall continue to be the L1 bidder at resumption of e-Reverse Auction. On resuming, the e-Reverse Bidding shall conducted for 60 minutes, which will be extended by 15 minutes from the last received bid time, if the bid is received during the last 15minutes. Subsequently, it will be extended again by 15 minutes from the latest received bid time.** **The above shall continue till the e-Reverse Bidding gets concluded.** …. …. Rationale for seeking clarification: As per revised Standard Bidding Documents, the bidders are required to quote single annual Transmission Charge from the date of SCOD of the project till expiry date in initial bid and in the e-RA. During e-RA, the initial time period for e-RA is 2 hours with extension of 30 minutes from last bid.	

		In this regard, it is submitted that the bidder is required to quote single number as annual transmission charges. Further, there is option for automatic reduction in e-RA portal. Therefore, the extension of 30 minutes from last bid submission may be reduced to 15 minutes. Further, in case the bidding extends beyond office hours, the e-RA may be paused and resumed on the next working day as being followed by major eps providers including Mjunction etc.	
39.	RFP 1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of SPV [which is under incorporation] along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.	RfP bid submission shall be scheduled accordingly.	Noted.
40.	RFP **a. Clarifications and Pre-Bid Meeting** **2.3.1** The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time RFP for Selection of Bidder as Transmission Service Provider mentioned in Clause 2.7.2. For any such clarifications or amendments, the Bidders should adhere to the format as per Annexure – 19.	The response for clarifications sought by prospective bidders shall be provided at least 2 weeks prior to bid deadline, so that price implications, if any, can be accounted for in the RfP bid.	Noted.

41.	RFP **2.5 The Bidding Process** The entire bidding process shall be conducted on electronic bidding platform created by **MSTC Limited**.	The event of Bid Submission shall be kept live on the MSTC portal at least 1 week prior to bid deadline.	Acceptable

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No.: 04/24-25/ITP-95/RFP **December 03, 2024**

To
Mr. Anchit Narula **E-mail:** sterlite.bd@sterlitepower.com
Sterlite Grid 32 Limited
9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
DLF Cyber Park Gurugram – 122001

Subject: Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" – Regarding Clarification to RFP documents.

Dear Sir,

This has reference to the issuance of RFP documents on September 28, 2024 for Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

In this regard, the queries raised by bidders on RFP documents have been examined and clarifications are enclosed at **Annexure-I** for your information and necessary action.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

Encl.: As above

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
1.	RFP for Selection of Bidder as Transmission Service Provider Section-1; Clause 1.2 Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 KV levels to be established in future) B.3.1 AC and DC power supplies	We understand that the rating of DG set and LT transformer at Bornagar Switching station shall be as per 765kV rating (as highest rating) of Substation. Please confirm.	Bidder understanding is generally in order. Further, refer clause B.3.1 of RfP.
2.	RFP for Selection of Bidder as Transmission Service Provider Section-1: Clause 1.2 LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	It is requested to confirm the availability of OPGW in the Bongaigaon - Balipara 400kV line along with its make and model details.	OPGW is installed (under commissioning) in the Bongaigaon - Balipara 400 kV (quad) line. All OPGW (alongwith optical fibers) shall meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and the bidder shall install OPGW accordingly.
3.	Transmission Service Agreement Schedule 1 and Schedule 2 – "Scheduled COD …36 months from effective date…. among the Parties;"	Effective Date is defined term therefore it should be "36 months from **E**ffective **D**ate", Instead of "36 months from effective date"	Bidder understanding is correct.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
4.	RFP for Selection of Bidder as Transmission Service Provider RFP, Clause 1.6. Clause no. 1.6.1.5 – Scope of Transmission Service Provider The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of SPV [which is under incorporation]. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).	We request BPC to confirm that in case of delay in grant of section 164 approval beyond 45 days by CEA, will this qualify as Force Majeure (FM) event under TSA, and we can get relief as per TSA.	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.
5.	Transmission Service Agreement TSA ARTICLE: 5 Clause no. 5.5.6 - For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.	We understand that of List of Element(s) along with the critical Element(s) are defined and provided in TSA and there will no separate list of Elements(s) to be provided by CEA.	All the elements mentioned at clause 2.6 of RfP are critically important. There is no such additional critical element other than the elements mentioned in the clause 2.6.
6.	Transmission Service Agreement Clause 5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period	As a general practice, the CERC considers any request for extension of time post COD of the Project. BPC to clarify that whether the 10% of CPBG will be invoked even when such delay is caused due to FM events and without adjudication on the validity of such claims?	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.		
7.	Transmission Service Agreement Clause 2.2.2 It is required that post the Expiry Date, the TSP to transfer the Project to CTU within a period of 90 days.	BPC to clarify the following: a. Who will be responsible for O&M of the Project post Expiry Date till the Project is transferred as the Agreement will automatically terminate on Expiry Date? b. Whether the TSP will be paid for the O&M for the period post Expiry Date till the Project is transferred if the TSP will manage the O&M post Expiry Date?	The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTUIL or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encum-brance and liability. The transfer of all project assets along with substation land, right of way and clearances shall be completed at the end of 35 years from COD of the Project. All the expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP.
8.	Transmission Service Agreement Clauses 4.1(f) and 4.2.1(e)	BPC to provide the definition of Arbitrators used as defined term.	The provisions of TSA shall prevail.

<table>
<tr><th>Sr. No.</th><th>Name of the Document
Clause No. and Existing provision</th><th>Clarification needed on</th><th>Reply to Bidders</th></tr>
<tr><td></td><td>These clauses provide assistance by Nodal Agency or TSP to the Arbitrators as required for the performance of their duties and responsibilities.</td><td></td><td></td></tr>
<tr><td>9.</td><td>TSA
5.1.4.(a)
The actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.</td><td>BPC to clarify that in case no land is available for Greenfield Substations (switching stations, or HVDC terminal or inverter stations), load serving substation, Greenfield Intermediate Substation within a 3 KM/ 10 KM radius respectively of the location proposed by the BPC in the survey report, whether the selected bidder can opt for the land beyond 3 KM / 10 KM, as applicable?
Whether the Project / Elements are covered under "Generation linked Project" or "System Strengthening Project."</td><td>TSP is required to finalise the location of the substation as per provision(s) in the SBDs.
The subject scheme is a system expansion scheme.</td></tr>
<tr><td>10.</td><td>TSA and SPA
Execution of the TSA and SPA</td><td>As per the provisions of the Indian Stamp Act, the execution of the Share Purchase Agreement ('SPA') and the Transmission Service Agreement ('TSA') should be made on the stamp papers of INR 1200 and INR 500 respectively. The relevant provisions of the Indian Stamp Act are provided below:
<table>
<tr><th>S N.</th><th>Document</th><th>Stamp Paper for Execution (in INR)</th><th>Indian Stamp Act, 1899 ('Act') read with Delhi Schedule 1A ('Schedule')</th></tr>
</table></td><td>As per the Delhi Stamp duty Schedule 1A, stamp duty payable on Share Purchase Agreements and Transmission Service Agreement respectively is Rs. 1,000/- and Rs.50;/- however, all such agreements also include separate agreements in respect of Arbitration, Indemnity,</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Name of the Document
Clause No. and Existing provision</th><th>Clarification needed on</th><th>Reply to Bidders</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>1.</td><td>Share Purchase Agreement</td><td>1200</td><td>Section 5 of Act read with (i) Item no. 5(b) of Schedule- sale of shares in an incorporated company: Rs. 1000/-, (ii) Item 5(c) Arbitration: Rs. 50/-, (iii) Item No. 34 Indemnity: Rs. 100/.</td></tr>
<tr><td>2.</td><td>Transmission Service Agreement</td><td>500</td><td>Section 5 of Act read with (i) Item 5(c), agreement (other): Rs. 50/-, (ii) Item No. 37, guarantee: Rs. 50/-, (iii) Item No. 34, indemnity: Rs. 100/-, and others.</td></tr>
</table>

BPC to confirm the amount of stamp papers on which the execution of the SPA and TSA will be executed.</td><td>guarantee, etc. and stamp duty on these separate items are also considered for the total stamp duty payable.

Therefore, based on these identified stamp duties and taking some extra ones, the stamp duty of Rs. 1200/- and Rs 500 has been considered for Share Purchase Agreements and Transmission Service Agreement, respectively. This is a customary practice and we are fine with the same.

Three agreements will be signed in original, therefore separate stamp duty is payable on each of the agreement</td></tr>
<tr><td>11.</td><td>RFP for Selection of Bidder as Transmission Service Provider

Definitions:

“Bid Bond” shall mean the unconditional and irrevocable bank guarantee for Rs. 4.72 Crore (Rupees Four Crore Seventy Two Lakh only), to be submitted along with the Technical Bid</td><td>We would like to bring to your kind attention the Government’s progressive decision to allow Insurance Surety bonds as a security mechanism. This was announced by the Hon’ble finance minister during the Union budget for FY-23.

The Hon’ble Ministry of Road Transport & Highways has already taken a significant step by amending the bidding documents for EPC, HAM, and BOT (ToT) projects,</td><td>This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.</td></tr>
</table>

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14	incorporating provisions for accepting insurance surety bonds as 'Bid Security' and 'Performance Security'. Considering the capital-intensive nature of transmission projects, we request BPC to also allow submission of Insurance Surety Bonds as an alternative to Bank Guarantees as a security mechanism.	
12.	RFP for Selection of Bidder as Transmission Service Provider Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of Rs. 11.80 Crore (Rupees Eleven Crore Eighty Lakh Only).		
13.	RFP for Selection of Bidder as Transmission Service Provider Clause 2.5.2 **Technical Bid comprising of** 19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance	As per RFP clause 2.1.2 (ii), "Experience in construction of project in infrastructure sector" is allowed for meeting the technical requirement by the bidders. In reference to the same, bidders need to provide the details of above experience as per *"Annexure 7D - Additional Information for verification of financial & technical capabilities of the bidders"* The Part iii, attachment 3, (a) states *"For each project listed in Attachment 2 above,* ***certificates of final acceptance and/or certificates of good operating performance duly issued by owners*** *for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be*	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
		issued by the authority / independent engineer of the project as defined in the respective project agreement" Further, as per the RFP Clause 2.5.2 (19) *"For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory".* The experience in construction of infrastructure sector is obtained through Engineering, Procurement & Construction contracts (EPC Contracts) having a construction timeline and a pre-defined defect liability period. The industry wide norm for issuing the experience certificates to the EPC contractors is through issuance of completion certificates or final acceptance certificates by the contracting authorities. In reference to the above, we presume that in case of use of experience of construction (2.1.2 (ii)), we presume that submission of completion certificates or final acceptance certificates duly issued by owners of the project will sufficient and acceptable to the BPC. Rationale for seeking clarification:*Requirement of certificates of good operating performance is not applicable for EPC contracts due to the intrinsic nature of such contracts.*	

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
14.	RFP for Selection of Bidder as Transmission Service Provider & TSA Section-2, clause no. 2.6. Project Schedule Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project & TSA: Schedule-4 Computation of Transmission Charges	Please note that there are 5 nos. of Transmission elements in the subject project. We understand that all elements of the scheme are required to be commissioned simultaneously as their utilization is dependent on each other and hence considering the same percentage of quoted transmission charges are clubbed and mentioned as single percentage (100%) for all these elements. BPC will appreciate that during Operation of the of the asset, if any outages happen to any element/elements of said asset or any scenarios occurs which are illustrated in schedule-4 of TSA then it will be difficult to compute payment of Transmission Charges under various scenarios based on the availability of each element. Please note that as per clause 10 of TSA, Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of TSA, from the date on which an ***Element(s) has achieved COD until the Expiry Date of this Agreement***, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement. In view of the above, BPC is requested to provide break-up of each element.	All elements of the scheme are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other. Further, the recovery of transmission charges shall be as per relevant regulations of CERC.
15.	RFP for Selection of Bidder as Transmission Service Provider RFP, section-1, Clause 1.5, Para 3	i. Please note that there is no clarity about the liability of the TSP post Transfer of asset. We request BPC to define the process of Transfer. ii. As the project is BOOT basis, we request BPC to provide Transfer Agreement for bidder's review and assessment.	Provisions of RfP and TSA shall prevail

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	"The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto".	iii. As the project is BOOT basis, what will be the Liability of TSP in case of any Default post Transfer to CTU. iv. As per the RFP, the transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto. We request BPC to confirm whether the Project is required to be given on as is where is basis or if CTU can ask for certain refurbishments to be done? It is requested to BPC to confirm will there be an obligation of the TSP to obtain re obtain the clearance at the time of Transfer, in case of NHAI, Road, Highways etc.	
16.	RFP for Selection of Bidder as Transmission Service Provider / Transmission Service Agreement REQUEST FOR PROPOSAL NOTIFICATION Point no.- 6: The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of SPV [which is under incorporation].	We would like to inform you that without the name of the SPV, the bidders are not able to obtain the approvals from their respective Boards for issuance of Board resolution/ POA, which delays the finalization of documents required for bid participation/submission from the bidder's end. You shall appreciate that the Board meetings for large conglomerates generally happens once a quarter. In view of the above, we request the BPC to provide the name of the SPV along with RFP issuance or maximum 7 days from RFP issuance.	The name of SPV is shared in Amendment No 1 dated 19.11.2024.
17.	RFP for selection of Bidder as Transmission Service Provider Request for Proposal Notification, Disclaimer This RFP may be withdrawn or cancelled by the BPC at any time without assigning any	We would like to mention that it would be unreasonable on the part of BPC to reject a bid without assigning any reason. Since the BPC can be construed as 'state' under the Constitution, conduct of BPC ought to have transparent and as such BPC	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever."	cannot take any decision without assigning proper reason/ justification.	
18.	RFP for selection of Bidder as Transmission Service Provider Definition: Conflict of Interest" A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder.	It needs to be noted that this definition is vague and wide in as much as it only requires that an entity is able to have access; it is immaterial whether information was accessed or not, just the fact that a party is in a position to access the information or influence bid of another party is enough. As far as this aspect is concerned, this definition should be amended. This should further cover any conflict-of-interest situation between the BPC and any of the bidder.	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.
19.	RFP for selection of Bidder as Transmission Service Provider Annexure-B, Clause 3.3 provides that "the Bidder shall disclose the name and address of agents and representatives, and Indian Bidder shall disclose their foreign principals or associates". Clause 3.4 states that "the Bidder shall disclose the payments to be made by them to	BPC is requested to clarify the rationale for having this clause? We understand that The Bidder is free to engage any consultant as long as it is under the purview of applicable law.	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	agents/brokers or any other intermediary, in connection with this bid"		
20.	Transmission Service Agreement TSA: Clause F The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.	Please note that the Sharing Regulations only provides for Supplementary TSA and Revenue Sharing Agreement with CTU. Kindly confirm is there any other Agreement which is also required to be signed.	Please refer Clause No. 2.5.7 of RFP document.
21.	Transmission Service Agreement TSA: Clause H The billing, collection, and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations	In case of default in the payment by the DIC, BPC is requested to clarify the following. a) How will the Transmission charges be recovered? b) What is the assurance for recovery of Transmission charges in view of the repeal of the Regulation of the power supply 2010 by the CERC.	The billing, collection, and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per CERC Sharing Regulations, as amended from time to time.
22.	Transmission Service Agreement TSA ARTICLE: 1 Definitions and Interpretations Independent Engineer" shall mean an agency/company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging	We understand that as the Independent Engineer to be appointed by Nodal Agency (CTU), the fee and charges of the Independent Engineer shall be paid by CTU and TSP does not have to consider any fee and charges of the Independent Engineer in its bid.	Nodal Agency shall appoint the Independent Engineer as per the provisions of TSA.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	Competition in Development of Transmission Projects. TSA ARTICLE: 18 18.3 Remuneration of Independent Engineer		
23.	Transmission Service Agreement TSA ARTICLE: 1 Definitions and Interpretations Definition of Nodal Agency Nodal Agency" shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA)	The provison to the definition states that while taking major decisions, CTU shall consult CEA on technical matters and any other matter if it feels necessary. BPC is requested to provide clarity on what would constitute 'major decisions'; further, what would be the nature of consultation is not clear, whether such consultation would be binding or just advisory in nature? Further, there is an element of discretion as well on the part of CTU, which should be done away with.	Nodal Agency will consult the CEA on case to case basis as per the provisions of the Standard Bidding Documents
24.	Transmission Service Agreement As per TSA, **1.** Scheduled COD of each transmission Element: 36 months from the effective date. **2.** The Definition of Month: "Month" shall mean a period of thirty (30) days from (and excluding) the date of the event;	BPC to confirm the following: **a.** The Schedule COD for the Project is 36 Months from the effective date and since the Month is used as defined term, therefore, the 36 Month for the Project will be calculated on the basis of 30 days in each month? For example: If the effective date is 01-04-2024 then SCOD will be 17-03-2027. **b.** The Schedule COD for each transmission Element is 36 months from effective date and month has not been used as defined term, therefore 36 months will be calculated on the month to month basis? For example: If the SPV transfer date is 01-04-2024 then SCOD will be 01-14-2027. **c.** BPC to clarify that the SCOD for each transmission Element is different from SCOD of the Project?	Provisions of TSA are amply clear in this regard

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
25.	Transmission Service Agreement **TSA ARTICLE: 13** **Clause no.13.7** **Termination Payment -** If Agreement is terminated on account of Force Majeure Events, nonrequirement of any Element or Project during Construction, Long Term Transmission Customers non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Long Term Transmission Customers shall take over the Project Assets.	As there is no mechanism for termination payment. We request BPC to provide the mechanism for compensating the cost incurred by the TSP for construction of asset, in case of non-requirement of any element during construction stage.	Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer Clause 18.2.e. of TSA
26.	Transmission Service Agreement **TSA ARTICLE: 12** **Relief for change in law 12.2.3 -** 12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Long-Term Transmission Customers documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.	Please note that No timelines defined for response by LTTC in case of CIL event. We request BPC to define timeline in which LTTC will respond to the TSP.	Provisions of TSA are amply clear in this regard and shall apply.
27.	Transmission Service Agreement TSA ARTICLE: 11 Clause no. 11.4.1 ……	We request BPC to remove the point no g form the Force Majeure Exclusions	As per the provisions of RFP, BPC prepares the Survey Report and furnish the same to bidders.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	(g) Any error or omission in the survey report provided by BPC during the bidding process		The provisions of Force Majeure Exclusions in TSA shall prevail
28.	Transmission Service Agreement TSA ARTICLE: 3 Clause No. 3.3.4 Provided that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.	What is the rationale for only IDC recovery and no other expenditure like project cost overrun (such as overheads & price variation etc.)	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.
29.	Transmission Service Agreement TSA ARTICLE: 8 8.2 Target availability	As per previous TSA, target availability was at project level not for each element. We request BPC to maintain target availability at Project level only.	Bidder shall follow the requirement of RfP and TSA.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	The Target Availability of each Element and the Project shall be 98%		
30.	Transmission Service Agreement TSA ARTICLE: 12 Payment on account of Change in Law 12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.	BPC is requested to provide the format and timeline for submission of sperate bill of sperate bill for settlement of CIL events?	Provisions of TSA are amply clear in this regard and shall apply.
31.	Transmission Service Agreement Schedule 2 The payment of Transmission Charges for any Element, irrespective of its successful commissioning on or before its Scheduled COD, shall only be considered after successful commissioning of the Element(s), which are prerequired for declaring the commercial operation of such Element as mentioned in the above table.	BPC is requested to clarify that in case an element is successfully commissioned and is put to use/power flows, but the pre-required element is not successfully commissioned. Will TSP be eligible for getting Tariff?	Provisions of RFP are amply clear in this regard and shall apply.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
32.	Transmission Service Agreement Schedule 9 Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period. The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under: $\Delta T = [(P \times d)] \div [1-(1+ d)^{(-n)}]$	What is the rationale for the increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero-point three percent) of the quoted Transmission Charges of the TSP.	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.
33.	RFP for Selection of Bidder as Transmission Service Provider ANNEXURE 22 – FORMAT FOR AFFIDAVIT	We would like to mention that with reference to the RFP Clause 2.1.9 Bidders shall confirm a notarized affidavit as per Annexure 22. Please note for large conglomerates signing on behalf of all the affiliates can run into hundreds of numbers and different geographies, is practically impossible. We request you to allow Annexure-22 to be signed by the Authorized signatory of the Bidding company on behalf of Bidding entity only.	Provisions of RFP documents are amply clear in this regard.
34.	RFP for Selection of Bidder as Transmission Service Provider Definitions:	As per the bidding documents TSA shall be signed between Nodal agency and TSP only. We request BPC to clarify role of Designated ISTS Customers and linkage of Designated ISTS Customers to TSA.	Provisions of RFP documents are amply clear in this regard.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	Transmission Service Agreement" or "TSA" shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis.		
35.	RFP/ Annexure no. 15- format for Contract Performance Guarantee Annexure no. 15- format for Contract Performance Guarantee/ Last Para Notwithstanding anything ……. (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by…… [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV].	Kindly note that the Government banks are not issuing the contract Performance Guarantee. We request BPC to modify the last Para of the Performance Guarantee format as highlighted in red font below: Notwithstanding anything ……. (365) days thereafter. This BANK GUARANTEE ~~shall~~ may be extended from time to time for such period, as may be desired by…… [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV and …… [Insert name of the Bank].	This is as per the Standard Bidding Documents. The provisions of RFP shall prevail.
36.	Transmission Service Agreement Schedule: 9 Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period.	CERC notified 'Discount rate for computation of levelized transmission charges' is 9.25% on 2nd April 2024, please confirm if this Discount rate for computation of levelized transmission charges is to be considered for this calculation under schedule-9	Please refer the methodology mentioned at schedule-9 which is amply clear.
37.	Transmission Service Agreement Clause 5.5.6: For any delay in commissioning any critical Element(s), as identified in	Clause 5.5.6 of the TSA provides that for any delay in commissioning any critical Element(s), as identified in	This is as per the Standard Bidding Documents. The provisions of TSA shall prevail.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
	Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.	Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of CPG. There are no Elements identified in Schedule 1 & 2 as 'critical' – Kindly confirm as Bidder needs the information for proper estimation.	
38.	Amendment in SBD for Inter-state Transmission Service through TBCB process dated 16th June, 2023. Clause no. 1.2 of Section 1 on Page # 20 of RFP, Scope of the Transmission Scheme: Establishment of new 400 kV Bornagar (ISTS) switching station in Assam	Ministry of Power has issued the Amendment in SBD for Inter-state Transmission Service through TBCB process dated 16th June, 2023 and as per the same BPC has modified the clause 1.6.1.1 of the RPF as follows: Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. **Further, the actual location of Greenfield substations (switching stations or HVDC terminal or inverter stations) for a generation substation and for load serving substation in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of the any greenfield intermediate Substations in the scope of TSP shall not be beyond 10 km radius of the location proposed by the BPC in the survey report.**	Substations to be developed to serve the generation are called as Generation Pooling Station whereas substations to be developed to serve the load are called as load serving stations. Further, sub-station planned as intermediate substation between two substations and there is no proposal of drawl of power as well as generation evacuation is called as Greenfield Intermediate Sub-Station.

Sr. No.	Name of the Document Clause No. and Existing provision	Clarification needed on	Reply to Bidders
		i) BPC is requested to kindly provide the definitions for generation pooling substation, load serving substation and Greenfield intermediate Substation.	

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
1.	Clause 2.1.1 of RFP	The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agrees and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide **Orders No. 11/5/2018 - Coord. dated 28.07.2020** for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.	The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agrees and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide **Orders No. P-45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024** for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.
2.	Clause 2.1.1 of RFP	Besides, Department of Expenditure, Ministry of Finance vide **Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020**, as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.	Besides, Department of Expenditure, Ministry of Finance vide, **OM No. F.7/10/2021-PPD (1) dated 23.02.2023** as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
3.	Annexure 1 of RFP	…….. 4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide **Orders No. 11/5/2018 - Coord. dated 28.07.2020** for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard. We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance vide **Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020**, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.	…….. 4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide **Order No. P-45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024** for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard. We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance **vide Order OM No. F.7/10/2021-PPD (1) dated 23.02.2023**, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No.: 04/24-25/ITP-95/RFP **January 01, 2025**

To
Mr. Anchit Narula **E-mail:** sterlite.bd@sterlitepower.com
Sterlite Grid 32 Limited
9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
DLF Cyber Park Gurugram – 122001

Subject: Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" – Regarding Amendment No. 3.

Dear Sir,

This has reference to the issuance of RFP documents on September 28, 2024 for Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

In this regard, Amendment No. 3 to the RFP documents is enclosed at **Annexure-I** for your information and necessary action.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

Encl.: As above

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
1.	Annexure C SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION C.1.0	TSP shall supply, install and commission minimum 1 No. FODP (120 F or higher) along with panel and Approach Cables (24F) with all associated hardware fittings from gantry towers to Control Room for all the incoming lines envisaged under the present scope.	TSP shall supply, install and commission minimum 1 No. FODP (240 F or higher) along with panel and Approach Cables (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room for all the incoming lines envisaged under the present scope.
2.	Annexure C SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION C.2.0	On LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS), TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations: i. For Multi Circuit Tower Configuration: Two (2) No. OPGW cable containing 24 Fibres (24F) each on both the Earthwire peaks. ii. For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) No. OPGW cable containing 24 Fibres (24F) to be installed by TSP on one earthwire peak and conventional earthwire on other earthwire peak for both Loop In and Loop Out Lines.	On LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS), TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations: i. For Multi Circuit Tower Configuration: Two (2) No. OPGW cable containing 48 Fibres (48F) each on both the Earthwire peaks. ii. For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) No. OPGW cable containing 48 Fibres (48F) to be installed by TSP on one earthwire peak and conventional earthwire on other earthwire peak for both Loop In and Loop Out Lines. Proposed OPGW Hardware, Joint Box and other accessories shall be as per 48 Fiber OPGW.

3.	Annexure C SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION C.3.0	…….Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP. Additional requirements to be factored in C.3.0	……Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP. OPGW requirement on extended line shall be of same OPGW fiber capacity of existing line
4.	Appendix F.1: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION Repeater Requirements	• If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room. TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment. TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link. OR	• If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide **OPGW to accommodate all the fibers in main transmission line** on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and **and required approach Cable to accommodate all the OPGW fibers** with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room. TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment. TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

		• If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems. OR	OR • If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide **OPGW to accommodate all the fibers in main transmission line** on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and **required approach Cable/UGFO to accommodate all the OPGW fibers** with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

		• If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems Maintenance of OPGW Cable and OPGW Hardware, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.	OR • If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide **required approach Cable to accommodate all the OPGW fibers** with all associated hardware fittings to establish connectivity up to the location of repeater shelter. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems Maintenance of OPGW Cable and OPGW Hardware, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

5.	Frequently Asked Queries: 3.0 Communication	**3.3** How is the OPGW laying done in case of LILO lines? **Reply**: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV & 765 kV lines where two E/W peaks are available. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW. Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV & 765 kV lines. On 220 &132 kV lines where only one E/W peak is available TSP to install one no. 24F OPGW in place of conventional earthwire. **3.4** How is the OPGW laying done in case	**3.3** How is the OPGW laying done in case of LILO lines? **Reply**: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then ~~2x24F~~ **2x48F** OPGW shall be required to install by TSP on both earthwire peak on 400 kV & 765 kV lines where two E/W peaks are available. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. ~~48F~~ **96F** OPGW. Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then ~~1x 24F~~ **1x48F** OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV & 765 kV lines. On 220 &132 kV lines where only one E/W peak is available TSP to install one no. ~~24F~~ **48F** OPGW in place of conventional earthwire. **3.4** How is the OPGW laying done in case Multi

		Multi circuit Towers? **Reply**: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV & 400 kV lines. Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no 48F may be installed for common multi circuit portion.	circuit Towers? **Reply**: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. ~~24F~~ **48F** OPGW to be installed on both E/W peaks for common M/C portion of 765 kV & 400 kV lines. Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no ~~48F~~ **96F** may be installed for common multi circuit portion.
6.	A.23.0	The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.	Deleted

PFC CONSULTING LTD

G20 भारत 2023 INDIA
ONE EARTH • ONE FAMILY • ONE FUTURE

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कंम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No.: 04/24-25/ITP-95/RFP

January 03, 2025

To
Mr. Anchit Narula
Sterlite Grid 32 Limited
9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
DLF Cyber Park Gurugram – 122001

E-mail: sterlite.bd@sterlitepower.com

Subject: Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A" – Regarding Clarification to RFP documents.

Dear Sir,

This has reference to the issuance of RFP documents on September 28, 2024 for Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

In this regard, the queries raised by bidders on RFP documents have been examined and clarifications are enclosed at **Annexure-I** for your information and necessary action.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

Encl.: As above

<table>
<tr><th>Sl. No</th><th>Name of the Document
Clause No. and Existing provision</th><th>Clarification required</th><th>Reply to Bidder</th></tr>
<tr><td>1</td><td>RfP Specific Technical Requirements for Communication

Sl. No. C.5.0 PLCC and PABX

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line.</td><td>Data channel requirement is mentioned in PLCC.

Also, in clause no. (ii) of sections C.1.0 for FOTE, it is mentioned "Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement between Bornagar to repeater station/ Balipara S/s, Bornagar to repeater station/Bongaigaon S/s and Bornagar to repeater station /Alipurduar S/s."

BPC to confirm which communication protocol is to be used for data reporting to LDC. If Ethernet based protocol i.e. IEC 60870-5-104 is to be used than data channel is not required in PLCC.</td><td>PLCC channels shall be provided as per CEA (Technical standards for construction of electrical plants and electrical lines) Regulations, 2022.

Communication protocol to be used for data reporting to LDC shall be IEC 60870-5-104.</td></tr>
<tr><td>2</td><td>RfP Specific Technical Requirements for Communication

Sl. No. C.5.0 PLCC and PABX
<table><tr><th>Sl. No.</th><th>Line Section</th><th>PLCC configuration</th></tr><tr><td>1.</td><td>400 kV Alipurduar (Powergrid) - Bornagar (ISTS) D/C Line</td><td>1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.</td></tr><tr><td>2.</td><td>400 kV Bongaigaon (Powergrid) - Bornagar (ISTS) D/C line [after LILO]</td><td>1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.</td></tr><tr><td>3.</td><td>400 kV Bornagar (ISTS) - Balipara (Powergrid) D/C line [after LILO]</td><td>1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.</td></tr></table></td><td>1 set of Digital Protection Coupler requirement is mentioned in refer clause
But in sections C.1.0 for FOTE, it is mentioned "Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement between Bornagar to repeater station/ Balipara S/s, Bornagar to repeater station/Bongaigaon S/s and Bornagar to repeater station /Alipurduar S/s."
The above section refers that FOTE is to be used only for Data and voice communications.
BPC to confirm if tele protection is envisaged from FOTE also</td><td>Digital Protection Coupler shall be provided as per RfP.

Pls also refer FAQ 3.1 of the RFP, where it is clearly mentioned" Communication systems e.g. OPGW, FOTE etc. & PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering."</td></tr>
</table>

Sl. No	Name of the Document Clause No. and Existing provision	Clarification required	Reply to Bidder
3.	RfP Section-1: Clause 1.2 Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	BPC is requested to confirm the disconnection point of Alipurduar - Bongaigaon line and type of tower (at Alipurduar - Bongaigaon line).	Please refer to the Survey report issued in this regard.
4.	RfP Section-1: Clause 1.2 LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	BPC is requested to confirm the LILO point of Balipara - Bongaigaon elements. Whether the bidder is free to choose tapping point/tower as per site location.	Please refer to the Survey report issued in this regard.

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

02 December 2024

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **December 03, 2024** till **15:00 hrs (IST)** to **December 10, 2024** till **11:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. December 10, 2024** at **11:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

09 December 2024

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **December 10, 2024** till **15:00 hrs (IST)** to **December 30, 2024** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. December 30, 2024** at **15:00 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

December 24, 2024

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **December 30, 2024** till **15:00 hrs (IST)** to **January 07, 2025** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. January 07, 2025** at **15:00 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 02, 2025

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **January 07, 2025** till **15:00 hrs (IST)** to **January 17, 2025** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. January 17, 2025** at **15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 10, 2025

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **January 17, 2025** till **15:00 hrs (IST)** to **January 24, 2025** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. January 24, 2025** at **15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 22, 2025

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **January 24, 2025** till **15:00 hrs (IST)** to **January 31, 2025** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. January 31, 2025** at **15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 30, 2025

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **January 31, 2025** till **15:00 hrs (IST)** to **February 7, 2025** till **15:00 hrs (IST)**. The RFP (Technical) Bids will be opened on same day i.e**. February 7, 2025** at **15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

February 06, 2025

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from February 07, 2025 till 15:00 hrs (IST) to February 13, 2025 till 15:00 hrs (IST). The RFP (Technical) Bids will be opened on same day i.e. February 13, 2025 at 15:30 hrs (IST).

PFC Consulting Limited

...eclines in Japan ...an end to a short- ...while production ...d by domestic ...ecalls abroad. ...ut, including that Daihatsu Motor ...tors, dropped in ...6% from a year ...,023 units, the ...on Friday. Global ...year-on-year fol- ...gain in July. ...ales fell more ...han as it felt the ...t of recent regu-

of the country's biggest carmakers to suspend production for affected models.

Its hybrid gas-electric cars saw renewed popularity as demand for electric vehicles plateaued, but a global slump in new car sales and intense competition in China are weighing on the world's biggest carmaker.

While certain models like its Granvia minivan are

August with an ongoing price war with the likes of BYD threatening to further squeeze its market share.

A downturn in EV demand has led some of the world's



Toyota had slashed its 2026 annual sales goal from 1.5 million battery EVs, to 1 million.

Toyota sold 12,682 battery EVs in August, all but 119 of which were sold outside of Japan. Meanwhile, it sold 336,848 hybrids that month, a 22% increase from last year.

EV uptake has been slower in the island nation than in other major markets due to the dominance of hybrids and gas-powered cars. —BLOOMBERG



Debris cov... mobile hor... died, the g...

Trur... war ...

REPUBLICAN ... CANDIDATE ... said on Friday ... with both Ukrai... end their war, as ... Ukrainian Presi... Zelenskyy befor... in New York.

Speaking to ... skyy said he wa... his "victory pla... with Trump du...

...of *Harry Potter*, ...fame dies at 89



...e hit TV series ...offs of *Down-* ...e that seemed ...r an actress ...-lipped asides ...acks. ...ademy Award ...s for her turn

playing Desdemona opposite Laurence Olivier's *Othello* in 1965, before winning the Oscar for her role as an Edinburgh schoolmistress in 1969's *The Prime of Miss Jean Brodie*.

She won her second Oscar for her supporting role in the 1978 comedy *California Suite*, a performance that prompted co-star Michael Caine to say, "Maggie didn't just steal the film, she committed grand larceny."

QUICK PICKS

Sri Lanka keeps rates unchanged

SRI LANKA'S CENTRAL bank kept its benchmark interest rates unchanged in its first meeting since a new president was elected and uncertainty over the International Monetary Fund loan program looms. The Central Bank of Sri Lanka held the standing lending facility rate at 9.25%. The deposit facility rate was also left unchanged at 8.25%. —BLOOMBERG

Inflation in France, Spain below 2%

INFLATION IN FRANCE and Spain plunged below 2% — fueling predictions by investors and economists that the European Central Bank will speed up the pace of interest-rate cuts. Data on Friday showed consumer prices in France rose 1.5% from a year ago in September — sinking below 2%. Spain saw a similar trend, with inflation easing to 1.7%. —BLOOMBERG

...TAL BANK
...L BANK LTD.
...ital, Nainital
...ice Providers for ...es and Branches ...lhi, Haryana and ...d other details ...h/...der.aspx. ...the ...mpetent ...ce of providing ...fulfill all legal ...oviding security ...omplete in all ...ed "Application ...e Nainital Bank ...arakhand) and
...CE PRESIDENT

...LIMITED
...001
...20-2412218
...te : 28.09.2024
...ment of Micro ...For details visit ...tendering) & ...Tender. No. ... / Opening of ...15.30 Hrs on ...blished only on ...Marketing-D)

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001, (India) Fax: 011-23443990
Website : www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)

FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website **https://www.mstcecommerce.com** and **https://www.pfcclindia.com**.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) **from 28.09.2024 to one working day prior to bid submission for the projects mentioned below** on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing–A, Statesman House, Connaught Place, New Delhi-110001, Tel.: 91-11-23443996; Fax: 91-11-23443990; e-mail: **pfccl.itp@pfcindia.com**. The RFP documents can also be downloaded from **https://www.mstcecommerce.com** and **https://www.pfcclindia.com**, however, in such case, *interested* party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP(dd/mm/yyyy)
1.	Augmentation *at Fatehgarh-II* PS, Fatehgarh-IV PS (Section-II) and Barmer-I PS	18.10.2024	03.12.2024 up to 15:00 hrs (IST)	03.12.2024 up to 15:30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	04.12.2024 up to 15:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator
PFC CONSULTING LTD.
(A wholly owned subsidiary of PFC Ltd.)
(A Govt. of India Undertaking)

An Initiative of
Ministry of Power
Government of India

Initiative Partner
Central Electricity Authority

NOTICE

The Bank has ... Shareholders ... Regulations 20... that Wednesda... of determining ... and vote) in th... the Central Go... Banking Compa... Directives / Gu... scheduled to b...

It is further info... of the nominati...

In compliance ... all the shareho... Shareholders ... requested to re... their depositor... holdings / furn... Agent K-Fin Te... made available ... website of the ... set forth in the ... shareholders h... registered their ... made available ... obtain such det...

The Notice for t... also will be hos...

Date : 27.09.2... Place : Bengalu...

धी है जो छह महीने से एक दलित को
पौर नहीं बनने दे रही है।
लजीत ने कहा, ओबेराय
डमी महापौर हैं जो सिर्फ
ाइल पर आए संदेश पढ़ने
काम करती हैं।

महापौर ने टाल-मटोल के बाद 28 सितंबर को

वसूली शाखा
त्व-2, कनॉट सर्कस,
110001
05, 23755606
हेतु)
ा एवं पुनर्निर्माण तथा प्रतिभूति
ाधिकृत अधिकारी होने तथा
पठित धारा 13(12) के अधीन
र्जदार) को मांग सूचना दिनांक
राशि रु. 43,32,206.03 (स्टॉर
तु देय) उक्त सूचना की प्राप्ति
ा था।
ा हो गये है, इसलिए एतद्द्वारा
जाता है कि अधोहस्ताक्षरी ने
रा 13(4), उक्त नियम 2002 के
इस्तेमाल के अन्तर्गत दिनांक

ात संपत्ति के साथ लेन-देन न
ध कोई भी लेन देन बैंक ऑफ
ा बत्तीस हजार दो सौ छह और
(रु. चौबीस लाख पचास हजार
लोन ेय) और भविष्य का

के प्रावधानों के अंतर्गत सुरक्षित
आकर्षित किया जाता है।

संपत्ति नं. 01, गली नं. 15, पश्चिम
ोट, दक्षिण में – अन्य की संपत्ति,

कृत अधिकारी, बैंक ऑफ इंडिया

मापन प्रक्रिया में
टेड (परिसमापन में)
06PLC183645
जिल, जी-55, विकास मार्ग,
92
ाए गए नियमों के तहत सनशाइन
रिसंपत्तियों की बिक्री के लिए नोटिस

1.00 बजे से दोपहर 02.00 बजे तक
सीमित विस्तार के साथ)

ईएमडी राशि	बोली वृद्धिशील राशि
रु. 10.50 लाख	रु. 2.00 लाख या उसके गुणक

ी/आरटीजीएस बैंक हस्तांतरण के

आवश्यकता है क्योंकि संपत्ति "जैसा
पर बेची जाएगी।
सूचना दस्तावेज देखें। प्रक्रिया सूचना
कर एकत्र किया जा सकता है। प्रक्रिया
लब्ध होगा
लिमिटेड वेबसाइट
ाएगी।
ीकार करने या रद्द करने या बढ़ाने या
बताए ई-नीलामी रद्द कर सकता है।
/श्री इस्तिहाक अहमद 9870099713

ौदा केवल सफल बोलीदाता के नाम
जाएगा। यह बिक्री दिवाला एवं शोधन
नियमों के अधीन होगी।
हस्ता/-
पवन कुमार गोयल
ॉर्पोरेशन लिमिटेड के परिसमापक
A-001/IP-P00875/2017-18/11473
करोल बाग, नई दिल्ली-110005
मोबाइल : 9313502143
ाले ईमेल: cirpsicl@gmail.com
ल: ca.pawangoyal@gmail.com

पीएफसी कंसल्टिंग लिमिटेड

(पीएफसी लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
पंजीकृत कार्यालय: प्रथम तल, 'ऊर्जानिधि', 1, बाराखंबा लेन, कनॉट प्लेस,
नई दिल्ली-110001, फैक्स: 011-23443990 वेबसाइट: www.pfcclindia.com

वैश्विक आमंत्रण (केवल ई-निविदा के माध्यम से)

अंतर्राज्जीय पारेषण परियोजनाओं के लिए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधार पर पारेषण सेवा प्रदाता के चयन हेतु

पीएफसी कंसल्टिंग लिमिटेड, पावर फाइनेंस कॉर्पोरेशन लिमिटेड (भारत सरकार का एक उपक्रम) की पूर्ण स्वामित्वाधीन सहायक कंपनी "प्रस्ताव हेतु अनुरोध" (आरएफपी) की एकल चरण की दो लिफाफा प्रक्रिया का पालन करते हुए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधार पर पारेषण परियोजनाओं की स्थापना हेतु प्रस्ताव आमंत्रित करती है।

इच्छुक बोलीदाता वेबसाइट **https://www.mstcecommerce.com** और **https://www.pfcclindia.com** पर उपलब्ध आरएफपी अधिसूचना और आरएफपी दस्तावेज देख सकते हैं।

निविदादाता अप्रतिदेय शुल्क **रु. 5,00,000/-** या **यूएसडी (यूएस डॉलर) 7,000** + लागू जीएसटी 18 प्रतिशत का भुगतान करके आरएफपी दस्तावेज **28.09.2024 से निम्नलिखित परियोजनाओं के लिए निविदा जमा तिथि से एक कार्यदिवस पूर्व** तक सभी कार्य दिवसों में 10:30 बजे (आईएसटी) से 16:00 बजे (आईएसटी) के बीच 9वीं मंजिल, विंग – ए, स्टेट्समैन हाउस, कनॉट प्लेस, नई दिल्ली-110001, फोन: 91-11-23443996, फैक्स: 91-11-23443990; ई-मेल: **pfccl.itp@pfcindia.com** से प्राप्त कर सकते हैं। आरएफपी दस्तावेज **https://www.mstcecommerce.com** और **https://www.pfcclindia.com** से भी डाउनलोड किए जा सकते हैं, यद्यपि, ऐसे मामले में, इच्छुक पार्टियां आरएफपी के उत्तर जमा करते समय अलग से अप्रतिदेय शुल्क **रु. 5,00,000/-** या **यूएसडी (यूएस डॉलर) 7,000** + लागू जीएसटी 18 प्रतिशत जमा कर सकते हैं। सर्वेक्षण रिपोर्ट एवं आरएफपी दस्तावेजों पर स्पष्टीकरण केवल उन निविदादाताओं को जारी किया जाएगा, जो निविदा जमा तिथि से न्यूनतम एक कार्यदिवस पूर्व तक किसी भी कार्य दिवस में अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज खरीद/प्राप्त कर चुके हैं। निविदादाता किसी भी स्पष्टीकरण/संशोधन/समय विस्तार आदि, यदि कोई हो, के बारे में नवीनतम जानकारी हेतु वेबसाइट नियमित रूप से देखते रहें।

इस संबंध में महत्वपूर्ण समय-सारणी निम्नानुसार है:

क्र. सं.	पारेषण परियोजना का नाम	स्पष्टीकरण प्राप्त करने की अंतिम तिथि (दिन/माह/वर्ष)	आरएफपी का उत्तर जमा करने की अंतिम तिथि (दिन/माह/वर्ष)	आरएफपी के उत्तर खोलने की तिथि (दिन/माह/वर्ष)
1.	फतेहगढ़-II पीएस, फतेहगढ़-IV पीएस (सेक्शन-II) व बाड़मेर-I पीएस में आईसीटी क्षमता का विस्तार	18.10.2024	03.12.2024 को 15:00 बजे (आईएसटी) तक	03.12.2024 को 15:30 बजे (आईएसटी) तक
2.	उत्तर-पूर्वी क्षेत्र विस्तार स्कीम-XXV भाग-क(एनईआरईएस-XXV भाग-क)	18.10.2024	04.12.2024 को 15:00 बजे (आईएसटी) तक	04.12.2024 को 15:30 बजे (आईएसटी) तक

नोट : पीएफसी कंसल्टिंग लिमिटेड बिना कोई कारण बताए और बिना किसी दायित्व के प्रक्रिया को रद्द करने या संशोधित करने का अधिकार रखता है। यह कोई प्रस्ताव नहीं है।

बोली प्रक्रिया समन्वयक
PFC CONSULTING LTD.
(पीएफसी लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
(भारत सरकार का उपक्रम)

पहलकर्ता
विद्युत मंत्रालय
भारत सरकार

पहल साझेदार
केन्द्रीय विद्युत प्राधिकरण

केनरा बैंक Canara Bank

भारत सरकार का उपक्रम
A Government of India Undertaking
Together We Can
प्रधान कार्यालय, 112, जे सी रोड, बेंगलूरु-560 002

असाधारण आम बैठक (ईजीएम) की सूचना, निर्दिष्ट कट-ऑफ तिथि [शेयरधारक निदेशक के चुनाव के संबंध में]

बैंक ने संशोधित केनरा बैंक (शेयर और बैठकें) विनियम 2000 (विनियम) और अन्य लागू नियमों के अनुसार केंद्र सरकार के अलावा अन्य शेयरधारकों में से शेयरधारक निदेशक के चुनाव की प्रक्रिया शुरू करने का निर्णय लिया है। इसके द्वारा सूचित किया जाता है कि बुधवार, 23 अक्टूबर 2024 को निर्दिष्ट कटऑफ तिथि के रूप में तय किया गया है, ताकि उन शेयरधारकों की सूची निर्धारित की जा सके, जो केनरा बैंक के एक निदेशक के चुनाव में भाग लेने के लिए पात्र होंगे (अर्थात नामांकन, चुनाव लड़ना और वोट देना), जिसे केंद्र सरकार के अलावा शेयरधारकों द्वारा अपने बीच से चुना जाएगा, जिसका आयोजन बैंकिंग कंपनियां (उपक्रमों का अधिग्रहण और हस्तांतरण) अधिनियम, 1970 की धारा 9(3)(i) और अन्य लागू नियामक निर्देशों / दिशानिर्देशों के अनुसार बुधवार, 27 नवंबर 2024 को होने वाली बैंकों के शेयरधारकों की असाधारण आम बैठक (ईजीएम) में किया जाएगा।

यह भी सूचित किया जाता है कि विनियमन 65 (ii) के अनुसार नामांकन फॉर्म आदि जमा करने की अंतिम तिथि **मंगलवार, 12 नवंबर 2024 को शाम 5.00 बजे** तक या उससे पहले की होगी।

वर्तमान एमसीए परिपत्रों के अनुपालन में, ईजीएम के नोटिस की इलेक्ट्रॉनिक प्रतियां उन सभी शेयरधारकों को भेजी जाएंगी जिनके ईमेल पते बैंक / निक्षेपागार सहभागी के साथ पंजीकृत हैं। डीमैट मोड में शेयर रखने वाले शेयरधारकों, जिनके ईमेल आईडी पंजीकृत नहीं हैं, उनसे अनुरोध है कि वे अपने निक्षेपागार सहभागी के माध्यम से अपने संबंधित निक्षेपागार में अपने ईमेल पते और मोबाइल नंबर पंजीकृत कराएं। भौतिक रूप में शेयर रखने वाले शेयरधारकों से अनुरोध है कि वे अपनी होल्डिंग को डीमैट करें / अपना ईमेल पता और मोबाइल नंबर बैंक के रजिस्ट्रार और शेयर ट्रांसफर एजेंट के-फिन टेक्नोलॉजीज लिमिटेड के पास einward.ris@kfintech.com पर उपलब्ध कराएं। ईजीएम की सूचना बैंक की वेबसाइट www.canarabank.com, स्टॉक एक्सचेंज की वेबसाइट और आरटीए की वेबसाइट पर भी उपलब्ध कराई जाएगी। जैसा कि ईजीएम के नोटिस में बताया गया है, शेयरधारकों को इलेक्ट्रॉनिक वोटिंग प्रणाली के माध्यम से पदस्थ कार्यस्थल से अपना वोट डालने का अवसर मिलेगा। डीमैट मोड, फिजिकल मोड में शेयर रखने वाले शेयरधारकों और जिन शेयरधारकों ने अपना ईमेल पता पंजीकृत नहीं कराया है, उनके लिए दूर से मतदान करने का तरीका शेयरधारकों को नोटिस में प्रदान किया जाएगा। बैंक की वेबसाइट पर भी विस्तृत जानकारी उपलब्ध कराई जाएगी। शेयरधारकों से अनुरोध है कि वे इस तरह की जानकारी प्राप्त करने के लिए **www.canarabank.com** पर जाएं।

बैठक के लिए सूचना तथा चुनाव के लिए प्रासंगिक प्रपत्र यथासमय जारी किए जाएंगे तथा बैंक की वेबसाइट पर भी डाले जाएंगे।

निदेशक मंडल के आदेशानुसार
कृते केनरा बैंक
प्रबंध निदेशक व मु.का.अ.

दिनांक : 27.09.2024
स्थान : बेंगलूरु

IN THE NEWS

US CONSUMER SPENDING RISES MODERATELY

US CONSUMER SPENDING increased slightly less than expected in August, suggesting some moderation in economic growth in the third quarter, while the annual rise in prices was the smallest in just over 3-1/2 years. Consumer spending rose 0.2% last month after an unrevised 0.5% gain in July, the Commerce Department's Bureau of Economic Analysis said.

META HIT WITH €91-MILLION EU PRIVACY FINE

THE LEAD EUROPEAN Union privacy regulator fined social media giant Meta €91 million ($101.5 million) on Friday for inadvertently storing some users' passwords without protection or encryption. The inquiry was opened five years ago after Meta notified Ireland's Data Protection Commission said it had stored some passwords in 'plaintext'.

AMAZON'S $4-BN ANTHROPIC DEAL CLEARED

Amazon's $4 billion investment pact with AI firm Anthropic was cleared following heightened UK scrutiny into Big Tech's spending spree on artificial intelligence software. The Competition and Markets Authority said Friday that the tie-up wouldn't qualify for probe under UK merger laws.

BYTEDANCE TO SIGN $10.8-BN LOAN

BYTEDANCE, THE CHINESE owner of TikTok, is set to sign a $10.8 billion loan in what would be the largest-ever dollar-denominated corporate facility in Asia ex-Japan, said people known to the matter. About 20 lenders — comprising international and Chinese banks, including some branches — will fund the deal, said the people. AGENCIES

SURPRISE OUTCOME PROMPTS A RALLY IN YEN

'Asian NATO' backer Ishiba to become new Japan PM

ALASTAIR GALE & YUKI HAGIWARA
September 27

JAPAN'S RULING PARTY picked Shigeru Ishiba as its next leader, positioning an advocate of an "Asian NATO" to become prime minister in a surprise result that jolted the yen.

Ishiba, a 67-year-old party veteran who has served in several senior roles including defence minister, favours ramping up security arrangements in the region, an idea that risks further inflaming tensions with China.

"What do we mean by an Asian NATO? The essence of collective security becomes obligatory," he said during a post-victory press conference. "The right of collective self-defence is, as the word indicates, a right."

The Liberal Democratic Party (LDP) chose Ishiba over Sanae Takaichi, whose signature policies include opposing Bank of Japan (BoJ) rate hikes. Takaichi was favoured to win, and the surprise outcome prompted a rally in Japan's currencyas traders foresaw the BoJ staying on course to normalise policy — a campaign that Ishiba has supported.

The yen strengthened more than 1% to as much as 142.8 against the dollar, unwinding several days of declines on speculation over a Takaichi victory. The currency has been closely watched by international investors after a rapid unwind of yen carry trades roiled global markets in early August.

"Clearly, whatever doubts lawmakers had about Ishiba, they overcame them," said Tobias Harris, the founder of Japan Foresight LLC, a political risk advisory. "Maybe it's as simple as the fact that they know the broader public supports him."

Fraying ties with China emerged as a key theme late in the LDP election campaign period after the fatal stabbing earlier this month of a Japanese schoolboy in China. All of the candidates called for a full investigation and demanded steps to protect Japanese citizens.

Tensions have also been inflamed after Chinese military aircraft made an unauthorised entry into Japanese airspace for the first time last month. And this week Japan reportedly sent a Maritime Self-Defence Force warship through the Taiwan Strait for the first time, a move all but certain to anger Beijing.

During the campaign, Ishiba emphasised the need to increase Japan's defence capabilities and floated the idea of creating an Asian NATO style collective security agreement to better deter aggression from countries like China and North Korea.

"Ishiba's main challenge is likely to be foreign policy, so we will have to wait and see how he does in that area," said Nobuyasu Atago, chief economist at Rakuten Securities Economic Research Institute. "I think that, for the time being, there will be no major shocks in terms of economic policy." —BLOOMBERG

FIFTH TIME LUCKY



WHAT DO WE MEAN BY AN ASIAN NATO? THE ESSENCE OF COLLECTIVE SECURITY BECOMES OBLIGATORY
SHIGERU ISHIBA, INCOMING PM, JAPAN

- The 67-year-old's successful bid after four attempts puts him at the helm of the ruling Liberal Democratic Party
- The former defence minister narrowly prevails over hardline nationalist Sanae Takaichi in an unpredictable race
- Ishiba, who also served as agriculture minister, promises to move some ministries and agencies out of Tokyo to help revive Japan's moribund regions
- He also criticised the US political backlash to Nippon Steel's bid for US Steel, saying it casts Japan as a national security risk

Israel seeks peace but 'enough is enough': Netanyahu

ISRAELI PRIME MINISTER Benjamin Netanyahu vowed to continue Israel's attacks on Iranian-backed fighters in Lebanon in a closely watched United Nations (UN) speech on Friday as hopes faded for a ceasefire that could head off an all-out regional war.

"As long as Hezbollah chooses the path of war, Israel has no choice, and Israel has every right to remove this threat and return our citizens to their homes safely," Netanyahu told the UN General Assembly (UNGA), referring to escalating violence between the Lebanese Hezbollah and Israel.

"Israel has been tolerating this intolerable situation for nearly a year. Well, I've [Benjamin Netanyahu] come here today to say enough is enough," he said.

Several delegations walked out as Netanyahu approached the lectern while supporters in the gallery cheered.

In southern Lebanon, Israel continued to strike Hezbollah targets while diplomats at the UN voiced fears the attacks could flare into a wider war that draws in Israel's arch-foe, Iran. —REUTERS

China cuts key rate, frees up cash for banks

BLOOMBERG
September 27

CHINA CUT THE amount of cash banks must keep in reserve on Friday and lowered a key policy rate, as Beijing rolls out a strong stimulus package unveiled this week in a push to shore up the slowing economy and investor confidence.

The People's Bank of China's (PBOC) 0.5 percentage point reduction to the reserve requirement ratio was announced earlier this week by central bank chief Pan Gongsheng, who didn't provide a timeframe.

The cut is aimed at creating a "good monetary and financial environment" for the steady growth of the Chinese economy

The cut is aimed at creating a "good monetary and financial environment" for the steady growth of the Chinese economy, the PBOC said in a statement.

The central bank also trimmed seven-day reverse repurchase rate to 1.5% from 1.7% on Friday, authorities said in a separate statement, confirming the timing for another move already revealed by Pan.

The PBOC governor unleashed one of the country's most daring policy campaigns in decades on Tuesday, when Pan announced a blitz of easing measures during a rare televised press conference in Beijing. That came after a slew of Wall Street banks downgraded their forecasts for China's annual growth to below the government's around 5% target.

The Politburo, comprised of the ruling Communist Party's 24 most-senior officials including President Xi Jinping, vowed to strengthen fiscal and monetary policies and pledged to "strive to achieve" the annual goal, according to a Thursday statement. They also committed to action to make the property sector "stop declining," their strongest vow yet to stabilise the crucial industry.

The elite group called on officials across the nation of 1.4 billion people to "earnestly enhance the sense of responsibility and urgency of doing economic work well."

HELENE HITS FLORIDA, GEORGIA



Debris cover the street in the aftermath of Hurricane Helene at Harbor Lights Club mobile home park in Pinellas County, Florida, on Friday. In Georgia, at least 11 people died, the governor said

Toyota production drops 12.6% on car safety scandals, US recalls

NICHOLAS TAKAHASHI
September 27

TOYOTA MOTOR'S SALES fell again after declines in Japan and China put an end to a short-lived recovery, while production was disrupted by domestic scandals and recalls abroad.

Global output, including that of subsidiaries Daihatsu Motor and Hino Motors, dropped in August by 12.6% from a year earlier to 808,023 units, the company said on Friday. Global sales fell 3.7% year-on-year following a 0.7% gain in July.

Toyota's sales fell more than 9% in Japan as it felt the delayed impact of recent regulatory scandals involving falsified vehicle safety certifications, which forced a number of the country's biggest carmakers to suspend production for affected models.

Its hybrid gas-electric cars saw renewed popularity as demand for electric vehicles plateaued, but a global slump in new car sales and intense competition in China are weighing on the world's biggest carmaker.

While certain models like its Granvia minivan are proving popular in China, Toyota's sales in the country fell 13.5% to 152,065 units in August with an ongoing price war with the likes of BYD threatening to further squeeze its market share.

A downturn in EV demand has led some of the world's biggest automakers to scale back electrification goals. Last month, a Nikkei report said Toyota had slashed its 2026 annual sales goal from 1.5 million battery EVs, to 1 million.

Toyota sold 12,682 battery EVs in August, all but 119 of which were sold outside of Japan. Meanwhile, it sold 336,848 hybrids that month, a 22% increase from last year.

EV uptake has been slower in the island nation than in other major markets due to the dominance of hybrids and gas-powered cars. —BLOOMBERG



Trump vows to end Ukraine war after meeting Zelenskyy

REPUBLICAN PRESIDENTIAL CANDIDATE Donald Trump said on Friday he would work with both Ukraine and Russia to end their war, as he stood next to Ukrainian President Volodymyr Zelenskyy before their meeting in New York.

Speaking to reporters, Zelenskyy said he wanted to discuss his "victory plan" for Ukraine with Trump during their first meeting since 2019. He said he was meeting both Trump and his Democratic rival in the November 5 election, Vice President Kamala Harris, because Ukraine needed strong US support in its continuing war with Russia. Trump praised Zelenskyy, but said he also had a solid relationship with Russian President Vladimir Putin. "We have a very good relationship (with Zelenskyy), and I also have a very good relationship, as you know, with President Putin," Trump said. —REUTERS



Maggie Smith of *Harry Potter*, *Downton Abbey* fame dies at 89

REUTERS
London, September 27

BRITISH ACTRESS MAGGIE Smith, an award winning Shakespearian actress and double Oscar winner who later appeared in the *Harry Potter* films, has died aged 89, the BBC reported on Friday.

One of the few actors to win the Treble of an Oscar (two), Emmy (four), and Tony, Smith's long career started on the stage in the 1950s.

But for many younger fans in the 21st century, she was best-known as Professor McGonagall in all seven *Harry Potter* movies, and the Dowager Countess in the hit TV series and movie spin-off of *Downton Abbey*, a role that seemed tailor-made for an actress known for purse-lipped asides and malicious cracks.

Her first Academy Award nomination was for her turn playing Desdemona opposite Laurence Olivier's *Othello* in 1965, before winning the Oscar for her role as an Edinburgh schoolmistress in 1969's *The Prime of Miss Jean Brodie*.

She won her second Oscar for her supporting role in the 1978 comedy *California Suite*, a performance that prompted co-star Michael Caine to say, "Maggie didn't just steal the film, she committed grand larceny."



QUICK PICKS

Sri Lanka keeps rates unchanged

SRI LANKA'S CENTRAL bank kept its benchmark interest rates unchanged in its first meeting since a new president was elected and uncertainty over the International Monetary Fund loan program looms. The Central Bank of Sri Lanka held the standing lending facility rate at 9.25%. The deposit facility rate was also left unchanged at 8.25%. —BLOOMBERG

Inflation in France, Spain below 2%

INFLATION IN FRANCE and Spain plunged below 2% — fueling predictions by investors and economists that the European Central Bank will speed up the pace of interest-rate cuts. Data on Friday showed consumer prices in France rose 1.5% from a year ago in September — sinking below 2%. Spain saw a similar trend, with inflation easing to 1.7%. —BLOOMBERG

NAINITAL BANK THE NAINITAL BANK LTD.

Head Office : Nainital Bank House, 7 Oaks, Mallital, Nainital

Applications are invited from Licensed and Approved Service Providers for providing Security Guards at various Administrative Offices and Branches of the Bank in the State of Uttarakhand, Uttar Pradesh, Delhi, Haryana and Pondicherry (Puducherry). For application format and other details please visit our website www.nainitalbank.co.in/english/tender.aspx. The applicants should have valid licenses issued by the Competent Authority of the Central Government and have experience of providing Security Guards in Banking Company. They should fulfill all legal requirements of valid Service providers in the field of providing security guards both armed and unarmed. The applications complete in all respect, in the prescribed format, in a sealed envelope marked "Application for Security Agency", be forwarded to Head Premises, The Nainital Bank Limited, Head Office: Seven Oaks, Mallital, Nainital, (Uttarakhand) and should be received on or before 28/10/2024.

Place : Nainital Date : 28.09.2024 VICE PRESIDENT

NATIONAL FERTILIZERS LIMITED
(A Govt. of India Undertaking)
A-17, Sector-24, NOIDA (U.P.) - 201301
Phone: 0120-2412364, 2412443 Fax: 0120-2412258

Ref No : NFL/MKTG CHEM/P-2024-25/01 Date : 26.09.2024

e-PROCUREMENT NOTICE

Bids are invited from the prospective bidders for procurement of Muriate of Potash. Participate for further marketing in various states. For details visit website https://etender.gov.in/eprocure/app (e-tendering) & www.nationalfertilizers.com (Homepage) E-Tender No. 2024_NFL_209410_1. Last date of Bid submission date / Opening of Technical Bid document is 12.30 Hrs on 14.10.2024 / 13.30 Hrs on 15.10.2024. Any Corrigendum (s) in this regard shall be published only on the website.

DGM (Marketing-C)

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001. (India) Fax: 91-11-23441999
Website: www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two-envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.mstcecommerce.com and https://www.pfcclindia.com.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16.00 hrs (IST) from 28.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001. Tel: 91-11-23447026, Fax: 91-11-23443980, e-mail: pfccl.ipd@pfcindia.com. The RFP documents can also be downloaded from https://www.mstcecommerce.com and https://www.pfcclindia.com, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @ 18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP(dd/mm/yyyy)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Barmer-I PS	18.10.2024	03.12.2024 up to 15.00 hrs (IST)	03.12.2024 up to 15.30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXX (NERES-XXV) Part-A	16.10.2024	04.12.2024 up to 15.00 hrs (IST)	04.12.2024 up to 15.30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator: PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)

An Initiative of: Ministry of Power, Government of India

Initiative Partner: Central Electricity Authority

केनरा बैंक Canara Bank
A Government of India Undertaking
Together We Can
H.O.: 112, J C Road, Bengaluru-560 002. www.canarabank.com

NOTICE OF EXTRAORDINARY GENERAL MEETING (EGM) SPECIFIED CUT-OFF DATE
[In respect of Election of One Shareholder Director]

The Bank has decided to initiate the process of Election of One Shareholder Director amongst the Shareholders other than the Central Government, Pursuant to Canara Bank (Shares & Meetings) Regulations 2000 as amended (The Regulations) and other applicable Rules. Notice is hereby given that Wednesday, 23rd October 2024 has been fixed as the Specified Cut-off Date for the purpose of determining the list of Shareholders who shall be entitled to participate (i.e., to nominate, contest and vote) in the Election of One Director of Canara Bank, to be elected by the Shareholders other than the Central Government from amongst themselves, to be conducted pursuant to Section 9(3)(i) of the Banking Companies (Acquisition & Transfer of Undertakings) Act, 1970 and other applicable Regulatory Directives / Guidelines at an Extraordinary General Meeting (EGM) of the Shareholders of the Banks scheduled to be held on Wednesday, 27th November 2024.

It is further informed that pursuant to the Regulation65 (ii) of the Regulations, the last date for submission of the nomination forms etc. will be on or before **Tuesday, 12th November 2024 upto 5.00 P.M.**

In compliance with extant MCA Circulars, electronic copies of the Notice of the EGM will be sent to all the shareholders whose e-mail addresses are registered with the Bank / Depository Participants. Shareholders holding shares in dematerialized mode and whose e-mail Ids are not registered are requested to register their e-mail addresses and mobile numbers with their relevant depositories through their depository participants. Shareholders holding shares in physical mode are requested to demat their holdings / furnish their e-mail addresses and mobile No. with the Bank's Registrar and Share Transfer Agent K-Fin Technologies Limited, at einward.ris@kfintech.com. The notice of the EGM will also be made available on the bank's website, www.canarabank.com, the Stock Exchange websites and on the website of the RTA. Shareholders will have an opportunity to cast their vote remotely on the business as set forth in the notice of the EGM through electronic voting system. The manner of voting remotely for shareholders holding shares in dematerialized mode, physical mode and for shareholders who have not registered their e-mail address will be provided in the Notice to the shareholders. The details will also be made available on the website of the Bank. Shareholders are requested to visit www.canarabank.com to obtain such details.

The Notice for the Meeting along with the relevant forms for the election will be issued in due course and also will be hosted on the Bank's website.

By Orders of Board of Directors
For Canara Bank
Managing Director & CEO

Date : 27.09.2024
Place : Bengaluru

DELHI UNIVERSITY STUDENTS' UNION POLLS

Turnout dips, holiday on election day, HC defacement order likely factors

VIDHEESHA KUNTAMALLA
NEW DELHI, SEPTEMBER 27

THE SPRAWLING campus of Delhi University (DU), normally festooned with posters, pamphlets and graffiti ahead of the student union elections, wore a slightly subdued look on Friday — the polling day.

Despite the familiar chaos, the turnout for this year's Delhi University Students' Union (DUSU) election — 35.2% — was markedly lower than last year's 42%. By 5.45 pm on Friday evening, only 43,451 students had voted, among the 1.45 lakh eligible across 52 colleges.

This year's election saw a mere 40% turnout at Ramjas College by midday. At Hindu College, it was around 36% in the first phase, while at Miranda House, the first phase reported a turnout of just 15%. DUSU polls are held in two phases – one in the morning and the other in the evening.

At Ramjas College, students like Anshul Dalal, an 18-year-old second-year History honors student, expressed disillusionment with the process. "Many didn't come out to vote because no one sees any change anymore... Last year, they promised us a men's common room. We still haven't gotten one."

At Kirori Mal College, the turnout hovered at 33% in the first phase, down from 36% the previous year. "The voting has been very calm," said Principal Dinesh Khattar. "We haven't seen a huge difference in turnout compared to last year, but it is still lower."

The mood at Miranda House was also subdued. Palak Sharma, a third-year BA student, criticised the university's decision to declare a holiday on voting day. "Why would a student travel for hours to come to campus just to vote?" she asked.

Principal Bijayalaxmi Nanda of Miranda House noted that the university's decision to make voting day a holiday likely contributed to the low turnout. "Since the university declared a holiday today, not many students have shown up," she said. By mid-afternoon, only 15% of students had cast their ballots at the college.





Students vote at Miranda House while many wait for their turn (left) at Ramjas College on Friday. *Praveen Khanna*

The turnout may also be tied to the recent legal developments. The Delhi High Court had stayed the counting of votes scheduled for Friday, in response to concerns over the defacement of public and private property by candidates.

"The turnout is low compared to last year. This might be because of the court's order delaying the vote count, which could have demotivated students," Ramjas College Principal Ajay Arora said.

At Hindu College, Principal Anju Srivastava attributed the lower turnout to the relative unfamiliarity of first-year students with campus politics. "The first years have only been on campus for 20 days. They are not attached to campus politics yet or familiar with the system," she said.

Dhruvi Deora (21), a student at Ramlal Anand College, said, "We live far away from the main campus... Also, it seems to be worthless to vote for candidates who did not even come to our campus to campaign."

Anant Kumar (22), who studies at a college in South Campus, added, "The candidates had completely ignored South Campus... No candidate from ABVP, NSUI or Left came to campaign. People here do not even know the names of the candidates."

Meanwhile, alleging irregularities, NSUI national president Varun Choudhary claimed that voting was delayed at several centres. "Voting began late in several colleges, which raises doubts about the integrity of the election," he said in a statement.

Ravi Pandey, chairman of media for the NSUI, went a step further. "The DU administration is under pressure by the ABVP and BJP, which is resulting in such instances across campus."

However, the university's Chief Election Officer, Satyapal Singh, dismissed these claims. "Voting began everywhere on time. We are noticing a low turnout... we are not sure why."

Ashutosh Singh, ABVP's national media convenor, called the allegations "baseless". "The NSUI's allegations are similar to the Congress blaming the EVMs after losing elections."

(With inputs from Vaishnavi Mishra, an intern with The Indian Express)

Votes likely be counted after Oct 21

New Delhi: The counting for the DUSU polls will be held only after October 21, when the Delhi High Court, which halted the process over defacement of public property by candidates, will hear the matter next, said Rajesh Singh, the Returning Officer for DUSU elections on Friday.

The Delhi High Court had on Thursday stayed the counting of votes till public property defaced by posters, hoardings and graffiti is restored. The counting of votes was to be held on Saturday.

"The court will now hear the matter on October 21. Only after that will we be able to decide when the counting will take place," Singh said.

"We have removed 90 per cent of the hoardings, posters and banners which violated the regulations and the process of removing the rest is underway," The candidates have been directed to remove the banners, he added. PTI

Psychotropic drug production: 6 held

New Delhi: Six persons, including the owner of a herbal healthcare firm, were arrested for allegedly manufacturing Alprazolam, a psychotropic substance, in the Delhi-NCR region. The drug was allegedly manufactured at a unit of Biocase Foods and Extracts Pvt Ltd at Hisar in Haryana, which is owned by Dr Naveen Aggarwal – a recipient of the Indian Achiever's Award, the police said.

On March 23, Rajendar Prasad alias RP was arrested from Delhi's Brijpuri and 18 kg of Alprazolam was found on him, police said.

Police found out that RP procured the drugs from Ram Ashish Maurya, a resident of Brijpuri, and was on the way to deliver it to Sakshi Pharmaceuticals owner Anand Kumar. Raids were conducted across Karawal Nagar and Brijpuri, and Maurya, Anand and one Deepak Kumar were arrested.

Another person, Mukesh Kumar, a friend of Deepak, was arrested on August 28 for allowing Deepak to hide in his house and helping him in the manufacturing of the drug. ENS

Defamation case: SC to hear plea of Atishi, Kejriwal on Monday

New Delhi: The Supreme Court would hear on Monday a plea of Delhi Chief Minister Atishi and AAP convener Arvind Kejriwal challenging a high court order that refused to quash a defamation case against them over remarks on the alleged deletion of the names of 30 lakh voters belonging to some communities from the electoral rolls.

The SC on Friday took note of the submissions made by senior advocate Sonia Mathur – who appeared on behalf of BJP leader Rajiv Babbar – that her caveat was not mentioned in the office report and she could not file a response as the petition was served to her late Thursday. The court listed the matter for hearing on Monday.

Atishi and Kejriwal have challenged the September 2 order of the Delhi High Court that refused to quash the proceedings against them and other AAP leaders over their remarks about the alleged deletion of voters' names, saying the imputations prima facie lowered BJP's reputation. PTI

NATIONAL FERTILIZERS LIMITED
(A Govt. of India Enterprise)
A-35, Sector-24, Noida (UP) 201301
Phone: 0120-2412345, 2412350 Fax: 0120-2412316

Ref No : NFL/MKTG-D/WNF/2024-25/01 Date : 28.09.2024

e-PROCUREMENT NOTICE

Bids are invited from the prospective bidders for procurement of Micro Nutrient Fertilizers for further marketing in various states. For details visit website, https://eprocure.gov.in/eprocure/app (e-tendering) & www.nationalfertilizers.com (Homepage). E-Tender No. 2024_NFL_209410_1. Last date of Bid submission date / Opening of Technical Bid document is 15:30 Hrs on 14.10.2024 / 15:30 Hrs on 15.10.2024. Any Corrigendum/s to this tender shall be published only on our website.

DGM (Marketing-D)

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001 (India) Fax: 011-23443490
Website : www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP information and RFP documents available on the website https://www.mstcecommerce.com and https://www.pfcclindia.com

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 28.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 5th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001. Tel., 91-11-23443990; e-mail: pfccl_tbs@pfcindia.com. The RFP documents can also be downloaded from https://www.mstcecommerce.com and https://www.pfcclindia.com, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification in RFP documents shall be issued to those bidders, who have obtained purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP(dd/mm/yyyy)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Barmer-I PS	18.10.2024	03.12.2024 up to 15.00 hrs (IST)	03.12.2024 up to 15:30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	04.12.2024 up to 15.00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator — PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)
An Initiative of — Ministry of Power, Government of India
Initiative Partner — Central Electricity Authority





नई दिल्ली

नई दिल्ली
राजधानी

मौसम
तापमान नई दिल्ली
अधिकतम-34.2
न्यूनतम- 27.7
सूर्योदय- 06:11
सूर्यास्त- 06:12

3

जनसत्ता | 28 सितंबर, 2024

आरएसएस से पूछे गए सवालों का विधानसभा में केजरीवाल ने किया जिक्र, कहा

भ्रष्टाचार में संलिप्त 25 नेता भाजपा के नगीने

जनसत्ता संवाददाता
नई दिल्ली, 27 सितंबर।

आम आदमी पार्टी के राष्ट्रीय संयोजक और दिल्ली के पूर्व मुख्यमंत्री अरविंद केजरीवाल ने दिल्ली विधानसभा सत्र के दौरान लगातार दूसरे दिन शुक्रवार को भाजपा पर जमकर निशाना साधा है। उनकी तरफ से राष्ट्रीय स्वयंसेवक संघ आरएसएस को लिखे पत्र का भी जिक्र करते हुए पांच सवाल पूछने की बात को दोहराया है। साथ ही भ्रष्टाचार में संलिप्त नेताओं की जांच एजेंसियों का डर दिखाकर भाजपा में शामिल किया जा रहा है। इन सभी नेताओं की संख्या 25 है जिनके इनके नगीने हैं।

अरविंद केजरीवाल ने कहा कि देश में जितने भी भ्रष्टाचार में संलिप्त नेता हैं उनको भाजपा के लोग ईडी, सीबीआइ का डर दिखाकर अपनी पार्टी में जोड़ लेते हैं। साल 2015 में असम के हिमंत विश्व सरमा पर भ्रष्टाचार का आरोप लगाया। उनको एक महीने बाद ही भाजपा ने अपनी पार्टी में शामिल कर लिया। पूर्व मुख्यमंत्री अरविंद केजरीवाल ने आरएसएस को लेकर कहा कि संघ के भीतर प्रचारक हैं जो घर घर जाते होंगे। उनसे पूछना चाहता हूं कि कैसे आप लोग घर घर जाते हैं। अब उनकी टिकट नहीं मिलता मल्लिक पूरब राजनीतिक वजहों से आने वाले नेताओं के लिए दरी बिछाने का काम करते हैं।



स्थायी समिति चुनाव पर केजरीवाल ने कहा, भाजपा ने एमसीडी पर गलत तरीके से कब्जा किया, जनादेश चुराया।

अरविंद केजरीवाल ने कहा कि दिल्ली के लोगों ने सदन को चुना, सदन ने महापौर को चुना। महापौर सदन की अध्यक्ष करेंगी लेकिन उपराज्यपाल के जरिए एमसीडी में एक अतिरिक्त आयुक्त की मुहिम बना दिया गया। कल को केंद्र सरकार में भी ऐसा ही कर दिया जाएगा। आज एमसीडी की चोरी कर ली है। उन्होंने यह भी गंभीर आरोप लगाए कि आम आदमी पार्टी का वोट को काटने का काम किया जा रहा है। इसलिए अगर कोई यह पूछे की किस पार्टी को वोट डालते हैं तो बता देना भाजपा को तो आपका वोट नहीं करेंगे।

देश में कानून का राज, वरना मैं जेल में सड़ रहा होता : मनीष सिसोदिया

जनसत्ता संवाददाता
नई दिल्ली, 27 सितंबर।



शराब घोटाले के मामले में जमानत पर बाहर आने के बाद शुक्रवार को पूर्व उप-मुख्यमंत्री मनीष सिसोदिया ने भाजपा पर जमकर हमला बोला। मनीष सिसोदिया ने दिल्ली विधानसभा सत्र के दौरान सदन में नेता प्रतिपक्ष विजेंद्र गुप्ता पर निशाना साधते हुए कहा कि आज भी अपनी ईमानदारी की कसम से रोना तान कर यहां खड़ा हूं। देश में कानून का राज है और तभी मैं यहां पर हूं, अगर इनके 'राज' को कानून होता तो जेल में सड़ रहा होता।

सिसोदिया ने कहा कि अगर देश में कानून का राज है। इसलिए भाजपा को कठघरे में खड़ा कर सकें हैं और साथ ही डराने धमकाने का काम किया जाता है। सिसोदिया ने आगे कहा कि मैं भाजपा की वजह से 17 महीनों तक जेल में रहा। उनके जेल से बाहर की जगह से अखरती मुकम्मान सेवा को हुआ। मैं जेल में रहने के कारण सिर्फ के क्षेत्र की बड़ा नुकसान हुआ है। उन्होंने कहा कि लोकतांत्रिक तरह से चुनी गई सरकार को किसी ने किसी तरह से परेशान करने का काम किया जा रहा है। कहा कि आम आदमी पार्टी सरकार ने अपने कार्यकाल में दिल्ली के बजट को 30 हजार से बढ़ाकर 75 हजार करोड़ कर दिया है। उन्होंने कहा कि जिनके भी मामले जांच एजेंसियों ने बनाए हैं, वह सभी फंसी हैं।

'युद्धस्तर पर ठीक करेंगे सड़कें'

जनसत्ता संवाददाता
नई दिल्ली, 27 सितंबर।

आम आदमी पार्टी के राष्ट्रीय संयोजक और पूर्व मुख्यमंत्री अरविंद केजरीवाल ने लगातार दूसरे दिन शुक्रवार को शहर की बदहाल सड़कों का निरीक्षण किया। रोशनआरा रोड के निरीक्षण के दौरान उनके साथ दिल्ली की मुख्यमंत्री आतिशी और तिमारपुर के विधायक दिनेश पांडे भी साथ रहे। केजरीवाल ने शुरुआत की तिमारपुर विधानसभा क्षेत्र के दिल्ली विश्वविद्यालय क्षेत्र का दौरा किया।

आप पार्टी मुखिया अरविंद केजरीवाल का कहना है कि सर्वेक्षण की रिपोर्ट पूरी होने के बाद दिल्ली में सभी क्षतिग्रस्त सड़कों पर युद्धस्तर पर काम शुरू कर दिया जाएगा। उन्होंने लोगों से अपील की कि वे अपने विधायक के कार्यालय में जाकर सड़कों की शिकायत दर्ज कराएं। केजरीवाल ने कहा कि पिछले साल-आठ महीनों से सड़कों की हालत ठीक नहीं है। उन्होंने आतिशी से शिकायत किया कि वह दिल्ली में लोक निर्माण विभाग की सभी सड़कों की स्थिति का आकलन करें और उनको दुरुस्त कराने का काम करवाएं।

मुंडका में समस्याओं से जूझ रहे लोग : मालीवाल

राज्यसभा सांसद स्वाति मालीवाल ने अरविंद केजरीवाल और मुख्यमंत्री आतिशी के बदहाल सड़कों के निरीक्षण पर सवाल खड़े करने वाली मुंडका की एक वीडियो संदेश मीडिया 'एक्स' पर साझा की है। स्वाति ने कहा कि नंबर एक और नंबर दो मुख्यमंत्री मुंडका इलाके की बदहाल सड़कों का जायजा लेने के लिए भी आएं। इस टूटी फूटी सड़कों की वजह से यहां लाखों लोगों को बड़ी समस्याओं का सामना करना पड़ रहा है। दूसरी तरफ यहां पर हर रोज सड़क हादसे हो रहे हैं, जानलेवा बंद हो गए हैं और व्यापार ठप पड़ गया है। एक साल से लोग यहां नरक की जिंदगी जी रहे हैं। गड्ढे के बारे में तो कुछ कहा ही नहीं जा सकता।

महापौर के खिलाफ सुप्रीम कोर्ट में अवमानना याचिका दायर

जनसत्ता संवाददाता
नई दिल्ली, 27 सितंबर।

दिल्ली नगर निगम स्थायी समिति सदस्य की चुनाव बैठक को 26 सितंबर को दिन किसी संवैधानिक रूप से वैध कारण के रद्द करने पर महापौर शैली ओबेरॉय के विरुद्ध नेता प्रतिपक्ष सत्यर राजा इकबाल सिंह ने सर्वोच्च न्यायालय में अवमानना याचिका दायर की है।

उनका कहना है कि महापौर ने सर्वोच्च न्यायालय के 5 अगस्त 2024 के आदेश की अवहेलना की है। सिंघवी न्यायालय ने कामलजीत सहरावत के सामद चुने जाने के बाद रिक्त पद पर चुनाव जल्द करवाने का निर्देश दिया था। महापौर ने टाल-मटोल के बाद 26 सितंबर को चुनाव की घोषणा कर बैठक बुलाई और बैठक में फोन न लाने देने के निगमायुक्त के विरोध पर बैठक स्थगित कर दी। जिससे उपराज्यपाल को बैठक सुरत करने के निर्देश देने पड़े। महापौर के साथ आप पार्षदों ने चुनाव बैठकों का बहिष्कार किया। राजा इकबाल ने कहा कि स्थायी समिति एमसीडी के प्राण के समान है और हम किसी भी सूरत में आशाजक आप को एमसीडी उप नहीं करने देंगे।

> *26 सितंबर* को चुनाव बैठक को बिना किसी संवैधानिक रूप से वैध कारण के रद्द करने का मामला।

डेयरी कालोनियों को मालिकाना हक देने पर पक्ष-विपक्ष एकजुट, सदन में प्रस्ताव पारित

जनसत्ता संवाददाता
नई दिल्ली, 27 सितंबर।

दिल्ली में डेयरी कालोनियों पर लटकी सीलिंग और तोड़फोड़ की तलवार को हटाने और राहत दिलाने के लिए दिल्ली विधानसभा में शुक्रवार को सर्वसम्मति से एक प्रस्ताव पारित किया गया।

विधानसभा में सत्ता पक्ष के सदस्य कुलदीप कुमार की ओर से एक प्रस्ताव प्रस्तुत किया गया जिसमें इन डेयरी कालोनियों में रहने वाले लोगों पर लागू भूमि उपयोग नियमों में बदलाव करने को निर्णय लिया गया। नेता प्रतिपक्ष विजेंद्र गुप्ता ने कहा कि डेयरी कालोनियों के आवंटित पुश्तैनी और विधिवत उपयोग में तबदीली किया जाए। साथ ही इन कालोनियों के लोगों को मालिकाना हक भी मिलना चाहिए। उन्होंने सत्ता पक्ष के प्रस्ताव पर सहमति जताते हुए यह भी कहा कि लोगों को सपने पहले दिल्ली नगर निगम की सीलिंग की लटकी तलवार पर रोक लगाने की जरूरत है।

सदन में आम आदमी पार्टी के विधायक सजीव झा ने ध्यानकर्षण प्रस्ताव पेश करते हुए उपराज्यपाल से मांग की है कि इस बार पहले की तरह यमुना नदी में छठ पूजा करने की आज्ञप्ति दी जाए। विधानसभा अध्यक्ष रामनिवास गोयल ने इस प्रस्ताव को स्वीकार कर लिया है। वहीं नेता प्रतिपक्ष विजेंद्र गुप्ता ने भूजल में बढ़ते प्रदूषण का मुद्दा उठाया और इस संकट पर गहरी चिंता व्यक्त की। इसी के साथ विधानसभा का दो दिवसीय सत्र शुक्रवार को समाप्त हो गया।

दो साल से लोकतंत्र की हत्या कर रही आप हुई विफल : भाजपा

नई दिल्ली, 27 सितंबर (संवाददाता)।

भाजपा सांसद रामवीर सिंह बिधूड़ी, कमलजीत सहरावत, एमसीडी में नेता प्रतिपक्ष सरदार राजा इकबाल सिंह, तजिंदरपाल एमसीडी स्थायी समिति सदस्य सुंदर सिंह तंवर ने शुक्रवार को संयुक्त प्रेसवार्ता की।

उन्होंने कहा कि एमसीडी में स्थायी समिति सदस्य चुनाव में जीत हासल की लोकतंत्र की जीत हुई है। आप पार्टी पिछले दो सालों से लोकतंत्र की हत्या कर रही थी जिसमें वो विफल हो गई है। बिधूड़ी ने कहा कि आप पार्टी चुनाव से भाग खड़ी हुई, जबकि महापौर ने खुद चुनाव की घोषणा की थी। आप दलित विरोधी है जो छह महीने से एक दलित की महापौर नहीं बनने दे रही है। कमलजीत ने कहा, ओबेराय एक ढमी महापौर हैं जो सिर्फ मोबाइल पर आए संदेश पढ़ने का काम करती हैं।

बृजभूषण के खिलाफ मामला बंद करने पर 30 नवंबर को आ सकता है फैसला

नई दिल्ली, 27 सितंबर (भाषा)।

भारतीय कुश्ती महासंघ के पूर्व अध्यक्ष बृजभूषण शरण सिंह पर लगे नाबालिग महिला पहलवान के यौन शोषण के आरोप के मामले को बंद कर दिया जाए या नहीं, इस पर पटियाला हाउस कोर्ट 30 नवंबर को फैसला सुनाएगा। अपर सत्र न्यायाधीश छवि कपूर को इस मामले पर शुक्रवार को आदेश पारित करना था लेकिन उन्होंने मामले को यह कहते हुए स्थगित कर दिया कि आदेश तैयार नहीं है।

लोक अभियोजक अतुल श्रीवास्तव ने बताया कि इससे पहले न्यायाधीश के कक्ष में हुई सुनवाई के दौरान नाबालिग पहलवान ने अदालत को बताया कि यह पुलिस जांच से संतुष्ट है और मामले को बंद करने के लिए दाखिल रिपोर्ट का विरोध नहीं करती। दिल्ली पुलिस ने अदालत के समक्ष एक रिपोर्ट दाखिल कर मामले को रद्द करने का अनुरोध किया था। पहलवान के पिता द्वारा यह दावा किए जाने कि उन्होंने पहलवान के पिता पर) लड़की के साथ कथित अन्याय का बदला लेने के लिए सिंह के खिलाफ यौन उत्पीड़न की झूठी शिकायत दर्ज कराई थी, के बाद पुलिस ने यह कदम उठाया था।

वाहन चालक से लूटपाट के तीन आरोपी गिरफ्तार

नई दिल्ली, 27 सितंबर (संवाददाता)।

नीरोजी अस्पताल के बाहर 12 सितंबर की रात को वाहन चालक (कैब ड्राइवर) की गर्दन दबाकर मोबाइल, 2300 रुपए और कार की चाबी लूटने के आरोप में पुलिस ने तीन लोगों को गिरफ्तार किया है। इनकी पहचान प्रशांत (27), अन्नू (24) और गौरव (24) के रूप में हुई है। आरोपियों पर पहले से कई आपराधिक मामले दर्ज हैं। आरोपी नशे के आदी हैं। यह लूट पूरी करने के लिए वारदात को अंजाम देते थे।

नेशनल फर्टिलाइजर्स लिमिटेड
(भारत सरकार का उपक्रम)
कॉर्पोरेट कार्यालय: नोएडा
फोन नं. 0120-2412345, 2413345 फैक्स नं. 0120-2412416

कॉर्पो सं. एनएफएल/एसचेजी-II/ई-प्रापण/2024-25/01 दिनांक: 28.06.2024

ई-प्रोक्योरमेंट सूचना

विनिर्देश आदि के विवरण के लिए कृपया प्रतिष्ठित आपूर्तकर्ताओं के ऑनलाइन ई-टेंडर पोर्टल https://etenders.gov.in/eprocure/app (Homepage) एवं https://www.nationalfertilizers.com (Homepage) देखें। ई-निविदा सं. 2024_NFL_208410_1 है। निविदा जमा करने की अंतिम तिथि/समयावधि निविदा दस्तावेज के लिए 14.10.2024 को 15.30 बजे / वि.10.2024 को 15.30 बजे है। इस निविदा का कोई भी शुद्धिपत्र केवल ई-टेंडर पोर्टल पर प्रकाशित किया जाएगा।

कृते महाप्रबंधक (विपणन- सी)

भारत वसूली अधिकरण, देहरादून
(वित्त मंत्रालय, भारत सरकार)
(वित्तीय सेवाओं के विभाग)
द्वितीय तल, सरल टॉवर, रायपुर, रायपुरपुर रोड, देहरादून, उत्तराखण्ड 248171
प्रकटन सूचना
ओ.ए. सं. 187 का 2023 में
ऋण वसूली और दीवाला अधिनियम 1993 की धारा 19 की उपधारा (4) के साथ पठित ऋण वसूली अधिकरण (प्रक्रिया) नियम 1993 के नियम 5 के उपनियम (3क) के अधीन जारी
कार्यवाही संख्या – 148/2024 दिनांक 21.08.2024
भारतीय स्टेट बैंक बनाम शिवराज सिंह कुशवाह एवं अन्य
तेजा में,
1. शीशम शिवराज सिंह कुशवाह, पुत्र श्री रामपाल सिंह कुशवाह, निवासी आर्किडाबीपी, मोहकमपुर देहरादून उत्तराखंड 248001।
अन्य पताः 103, राजेश्वरी पुरम, देहरादून 248001 उत्तराखंड।
अन्य पताः 278, प्रताप पुरा, ग्वालटोरा, मध्य प्रदेश 458113।
अन्य पताः फ्लैट नं. 201, सायाई ग्रीन अपार्टमेंट, लाडपुर देहरादून, 248001 उत्तराखंड।
2. रामपाल सिंह कुशवाह पुत्र श्री राजेधर सिंह कुशवाह, निवासी 103, राजेश्वरी पुरम्, देहरादून 248001 उत्तराखंड।
3. एक्स सिक्योरेक्स सा. लिमिटेड का स्थानीय कार्यालय सायाई अपार्टमेंट, लाडपुर देहरादून 248001 उत्तराखंड में है
अन्य पताः ए–601, डिंग अपार्टमेंट, सेक्टर 5, प्लॉट नंबर 12, द्वारका, नई दिल्ली 110075
4. श्रीमती सुनीता शर्मा पत्नी श्री वी.के. शर्मा, निवासी ए–801, हिंद अपार्टमेंट, सेक्टर 5, प्लॉट नंबर 12, द्वारका, नई दिल्ली 110075
5. श्रीमती जगदाना शर्मा, पत्नी श्री अरुण खेतान, निवासी ए–42, ऑर्डिनेंस अपार्टमेंट, एच–ब्लॉक, विकास पुरी, नई दिल्ली, 110018
6. श्री विजय सायाई, पुत्र स्वर्गीय वेंकटेश सायाई, निवासी ए–801, हिंद अपार्टमेंट, सेक्टर 5, प्लॉट नंबर 12, द्वारका, नई दिल्ली 110075
7. श्री वीजू सायाई, पुत्र स्वर्गीय वेंकटेश सायाई, निवासी ए–801, हिंद अपार्टमेंट, सेक्टर 5, प्लॉट नंबर 12, द्वारका, नई दिल्ली 110075
जीता नवी उक्त नामित प्रार्थी फैक्ट ने रु. 42,00,348.34 /– (फोर थी सरुती हेतु आपकी विरुद्ध मूल प्रार्थना पत्र नम्बर 187 का 2023 स्थापित किया है जो दिनांक 12.08.2024 को माननीय पीठासीन अधिकारी के समक्ष सुनीवाई हो और उक्त वाद में प्रतिवेदन अधिकारण के आदेश वसूली और संपत्ति अधिनियम 1993 का धारा 19 की उपधारा (4) के अधीनी समन / नोटिस जारी करने की कृपा की है।
यतस् यह माननीय अधिकरण के समक्ष यह घोषणा हो कि समन की तामील सामान्य तरीके से संभव नहीं है। अतः इस समन के प्रकाशन द्वारा आपको निर्देशित किया जाता है कि आप दिनांक 11.10.2024 को स्वयं या अपने उचितकृत प्रतिनिधि या विधिक व्यवसायी के माध्यम से पेश हो तथा यह कारण दर्शाए कि क्यों ना आपके विरुद्ध मूल प्रार्थना पत्र में प्रार्थित अनुतोष प्रदान न किया जाए तथा आपसे लिखित कथन, यदि कोई हो तो वह पेश कुक के रूप में, दस्तावेज तथा शपथपत्र सहित, अपने प्रतिवाद में या, प्रतिवाद, सेट ऑफ दावा, की एक प्रति आवेदक को उपलब्ध करते हुए इस नोटिस के प्रकाशन की तिथि के 30 दिन के अन्दर अधिकरण में समर्पित करने हेतु निर्देशित किया जाता है।
सूचित हो कि अधिकरण में पहले से निर्दिष्ट दिन और समय पर आपकी उपस्थिति में चूक होने पर उक्त वाद आपकी अनुपस्थिति में सुना व तय किया जाएगा।
दिनांक 21.06.2024 को इस अधिकरण के समक्षाक्षरों द्वारा जारी किया गया।
अधिकरण के आदेश से,
रजिस्ट्रार
ऋण वसूली अधिकरण, देहरादून

बैंक ऑफ इंडिया
(भारत सरकार का उपक्रम)
मुख्य कार्यालय: बांद्रा कुर्ला कॉम्प्लेक्स, बांद्रा (पूर्व), मुम्बई-400051
क्षेत्रीय कार्यालय: दिल्ली-110001
फोन: 011-23315605-23755604
कब्जा सूचना (अचल सम्पत्ति हेतु)
जबकि अधोहस्ताक्षरी ने वित्तीय परिसम्पत्तियों के प्रतिभूतिकरण एवं पुनर्निर्माण तथा प्रतिभूति हित अधिनियम के प्रवर्तन के बैंक ऑफ इंडिया का प्राधिकृत अधिकारी होने तथा प्रतिभूतिहित (प्रवर्तन) नियमावली 2002 के नियम 3 के साथ पठित धारा 13(12) के अधीन प्रदत्त शक्तियों के अंतर्गत कर्जदार मेसर्स बिकरन कुमार सिंह (कर्जदार) को मांग सूचना दिनांक 19-06-2024 को जारी किया था जिसमें सूचना में उल्लेखित राशि रु. 43,33,206.03 (रुपये तीस लाख तेंतीस हजार दो सौ छः रुपये मात्र) रु. 2450836.39 (रुपये टॉप-अप लोन हेतु देय) उक्त सूचना की प्राप्ति की तिथि से 60 दिनों के अंदर इसे भुगतान करने को कहा गया था।
कर्जदार, सह-कर्जदार राशि का प्रतिभुगतान करने में असफल हो गये हैं, इसलिए एतद्द्वारा कर्जदार, सह-कर्जदार तथा आम जनता को सूचित किया जाता है कि अधोहस्ताक्षरी ने इसमें नीचे वर्णित संपत्ति का कब्जा उक्त अधिनियम की धारा 13(4) उक्त नियम 2002 के अधीन उन्हें प्रदत्त शक्तियों के अधीन उन्हें उक्त शक्तियों के इस्तेमाल के अन्तर्गत दिनांक 28.09.2024 को लिया है।
विशेष रूप से कर्जदार तथा जनसाधारण को एतद्द्वारा उक्त संपत्ति के साथ लेन-देन न करने के लिए सावधान किया जाता है तथा संपत्ति के साथ कोई भी लेन-देन बैंक ऑफ इंडिया, के प्रभार सहित रु. 43,33,206.03 (रु. तैंतालीस लाख तेंतीस हजार दो सौ छह और पैसे तीन मात्र) (रुपैट टॉप-अप लोन हेतु देय) रु. 24,58,836.39 (रु. चौबीस लाख पचास हजार आठ सौ छत्तीस और पैसे उनतालीस मात्र) रुपैट टॉप-अप लोन हेतु देय) और भविष्य का ब्याज इत्यादि राशि के अधीन होगा।
उपलब्ध्यों का ध्यान एक्ट की धारा 13 की उप धारा (8) के प्रावधानों के अंतर्गत सुरक्षित परिसम्पत्तियों के मुक्त करने हेतु उपलब्ध समय सीमा की ओर आकर्षित किया जाता है।
अचल संपत्ति का विवरण
फ्लैट नं. 101, प्लॉट नं. 16, खसरा नं. 01, गली नं. 16, पश्चिम विहार, नई दिल्ली-110063 (मापक 1350 वर्ग फीट, बिल्टअप एरिया 1000 वर्ग फीट)
चौहद्दी: उत्तर – फ्लैट नं. 102, दक्षिण – फ्लैट नं. 100, पूर्व – गली नं. 17, पश्चिम – अन्य की संपत्ति
प्राधिकृत अधिकारी, बैंक ऑफ इंडिया

ई-नीलामी बिक्री नोटिस परिसमापन प्रक्रिया में
सनशाइन इंफ्राबिल्ड कॉर्पोरेशन लिमिटेड (परिसमापन में)
सी-आईएन संख्याः U45400DL2008PLC183645
पंजीकृत कार्यालयः सेंचल पैलेस कॉम्प्लेक्स, पहली मंजिल, जी –55, विकास मार्ग, लक्ष्मी नगर, दिल्ली-110092
हितबद्ध और वित्तीय लेनदार संख्या 2016 और उसके तहत बनाए गए नियम के तहत सनशाइन इंफ्राबिल्ड कॉर्पोरेशन लिमिटेड (परिसमापन में) की निम्नलिखित परिसंपत्तियों की बिक्री की बिक्री किया जाएगा है:

नीलामी की तिथि और समय	04 अक्टूबर 2024 सुबह 11.00 बजे से दोपहर 02.00 बजे तक (प्रत्येक 5 मिनट के असीमित विस्तार के साथ)
बोली जमा करने की अंतिम तिथि	14 अक्टूबर 2024
ई-ऑक्शन की घोषणा	21 अक्टूबर 2024
परिसंपत्तियों के निरीक्षण की अंतिम तिथि	28 अक्टूबर 2024
ईएमडी जमा करने की अवधि का समय	02 नवंबर 2024

संपत्ति का विवरण	आरक्षित मूल्य	ईएमडी राशि	बोली गुणोत्तरित राशि
प्लॉट नंबर –315–316, सीमापुरी मेट्रोपॉलिटन एरिया, खाई नंबर 15, रेवाली औद्योगिक क्षेत्र, सोनीपत के तहसील कार्यालय, गन्नौर के पास स्थित कॉर्पोरेट संपत्ति सनशाइन इंफ्राबिल्ड कॉर्पोरेशन लिमिटेड के नाम पर मुक्त सुलह डिस्ट्रिक्ट–जनरेटिंग 2218 वर्ग फीट	रु. 105.00 लाख (सिर्फ एक लाख पांच लाख रुपये)	रु. 10.50 लाख	रु. 2.00 लाख या उसके गुणक

टिप्पणी:
1. ईएमडी (इसके बाद) किसी ड्राफ्ट / पे ऑर्डर / एनईएफटी / आरटीजीएस के माध्यम से जमा किया जा सकता है।
2. ऑक्शनर की कार्यवाही / संपत्ति पर जारी खतरे कम करने की प्रक्रियाओं है मार्फत संपत्ति "जैसा है", "जहां है", "जो भी है" और "कोई सहारा आधार नहीं" पर बेची जाएगी।
3. ई–नीलामी बिक्री के नियम व शर्तों और शर्तों के लिए, संभेदा सूचना दस्तावेज देखें / प्रक्रिया सुलभ एसएमई ऑक्शन@gmail.com या परिसमापक को ईमेल भेजकर पूरक किया जा सकता है। (किसी दस्तावेज देय फॉर्म)https://www.eauctions.co.in पर उपलब्ध होगा।
4. ई–नीलामी अनुमोदित सेवा प्रदाता निकायतः इंफोटेक प्राइवेट लिमिटेड ऑनलाइन https://www.eauctions.co.in के माध्यम से आयोजित की जाएगी।
5. परिसमापक को ई–नीलामी से किसी के नियम और शर्तों को संशोधन करने या रद्द करने या स्थगन का सर्वाधिकार सुरक्षित है।
6. तकनीकी सहायता के लिए संपर्क व्यक्तिः श्री विजय निगमित्रा / श्री इलियाज्ञर अहमद 08/0090713 ई–मेल: admin@eauctions.co.in
7. संपूर्ण बोली प्रक्रिया के सुचारू रूप से, बोली प्रस्तुतकर्ता / प्रतिष्ठित बोलता सफल बोलीदाता के नाम पर जारी किया जाएगा और किसी अन्य नाम में जारी नहीं किया जाएगा। यह बिक्री दिनांक 19 जुलाई 2016 के आदेशों और उसके तहत बनाए गए नियमों के अधीन होगी।

हस्ता./-
दिनांक: 28.06.2024 परमेश कुमार मोगला
स्थान: नई दिल्ली समाधान इंफ्राबिल्ड कॉर्पोरेशन लिमिटेड के परिसमापक
आईपीबीआई पंजीकरण सं.: IBBI/IPA-001/IP-P00875/2017-18/11473
304, तीसरा तल्ला, 12 / 50-ई-II, पुष्पा रोड, करोल बाग, नई दिल्ली–110005
मोबाइल: (9313605143)
पत्राचार के लिए उपयोग किए जाने वाले ईमेल: cirpsbi@gmail.com
आईपीबीआई के साथ पंजीकृत परिसमापक का ई–मेल: cs.pawangoyal@gmail.com

पीएफसी कंसल्टिंग लिमिटेड
(पीएफसी लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
पीएफसी हाउस, कोर 4, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली–110003 टेलेक्स 031-73443 फैक्स 011-24362804 वेबसाइट www.pfcclindia.com
वैश्विक आह्वान (केवल ई–निविदा के माध्यम से)
अंतर्राष्ट्रीय पारेषण परियोजनाओं के लिए नियोक्ता, स्वामित्व, प्रचालन और स्वामांतरण (बूटे) आधार पर प्रारंभिक सेवा प्रदाता के चयन हेतु
पीएफसी कंसल्टिंग लिमिटेड, भारत सार्वजनिक क्षेत्रक उपक्रमों और राज्य विद्युत बोर्डों को विद्युत पारेषण परियोजनाओं के विकास हेतु अनुरोध (आरएफपी) की एकल चरण की दो लिफाफा प्रक्रिया का पालन करता हुए नियोक्ता, स्वामित्व, प्रचालन और स्वामांतरण (बूटे) आधार पर परियोजना विकासकाओं की स्थापना हेतु सहायता आमंत्रित करती है।
इच्छुक कंपनियां वेबसाइट https://www.mstcecommerce.com और https://www.pfcclindia.com पर उपलब्ध आरएफपी अभिपत्र और आरएफपी दस्तावेज देख सकते हैं।
निविदादाता अग्रिमेंट शुल्क रु. 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 – साथ पीएफसी 18 फरवरी का भुगतान करके आरएफपी दस्तावेज 28.09.2024 से निम्नलिखित परियोजनाओं के लिए निविदा जमा लिखे से एक कार्यदिवस पूर्व तक अर्थात काम दिवस से 10:30 बजे (अंडरटेण्डर) से 16:00 बजे (अंडरटेण्डर) के बीच श्री मंजित, निष, पद पीएफसी सलाह कंसल्टिंग लिमि नई दिल्ली–110003, फोन 91–11–23443886, फैक्स 91–11–23445930 ई–मेल pfccl.itp@pfcindia.com से प्राप्त कर सकते हैं। आरएफपी दस्तावेज https://www.mstcecommerce.com और https://www.pfcclindia.com से भी डाउनलोड किए जा सकते हैं। यद्यपि, एक मामले में, इसकी, संदिग्धों प्रारंभकर्ता के उपरांत अन्य कोई संभव अवसर से प्रारंभिक शुल्क से, 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 – साथ, डीडी/पे ऑ प्रतिष्ठान अन्य कंपनी से, संबंधित निविदा दस्तावेज के साथ नहीं मिलते हैं तो संभावित बोलीदार/संभावित विकासकों को उनकी निविदा जमा लिखे में स्थापना एक कार्यदिवस पूर्व तक किसी भी कार्य दिवस में संभावित सुलह का प्रयास करेगी। अतिरिक्त जानकारी हेतु वेबसाइट https://www.pfcclindia.com से भी देखने रहें।
संभावित/संयोजन / संयुक्त विकास आदि, यदि कोई हो, के बारे में वाणिज्यिक जानकारी हेतु वेबसाइट मेसर्स रुपे देखने रहें।
इस संबंध में महत्वपूर्ण तारीख–सारणी निम्नानुसार है:

क्र. सं.	प्रस्तावित परियोजनाओं का नाम	स्पष्टीकरण मांगने की अंतिम तिथि (दिन / माह / वर्ष)	आरएफपी का उत्तर जमा करने की अंतिम तिथि (दिन / माह / वर्ष)	आरएफपी के उत्तर खोलने की तिथि (दिन / माह / वर्ष)
1	फरीदाबाद-II पीएस फरीदाबाद-IV पीएस (रोपलगढ़-II व बाद्शपुर-II पीएस में आईसीटी क्षमता का विस्तार	18.10.2024	03.12.2024 को 15:00 बजे (अंडरटेण्डी) तक	03.12.2024 को 15:30 बजे (अंडरटेण्डी) तक
2	सतत-पूर्वी क्षेत्र विस्तार स्कीम-XXV पावरग्रिड/पीएफसी/एनआरएसई/एक्सएक्सवी (भाग-ए)	04.12.2024 को 15:00 बजे (अंडरटेण्डी) तक	04.12.2024 को 15:30 बजे (अंडरटेण्डी) तक	04.12.2024 को 15:30 बजे (अंडरटेण्डी) तक

नोट: पीएफसी कंसल्टिंग लिमिटेड बिना कोई कारण बताए और बिना किसी दायित्व के प्रक्रिया को रद्द करने या संशोधित करने का अधिकार रखता है। यह कोई प्रस्ताव नहीं है।
PFC CONSULTING LTD.
(पीएफसी लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
(भारत सरकार का उपक्रम)
बंधुत्व सशक्तिकरण
विद्युत मंत्रालय
भारत सरकार
कार्यालय विद्युत मंत्रालय

केनरा बैंक Canara Bank
भारत सरकार का उपक्रम
A Government of India Undertaking
Together We Can
पंचान कार्यालय, 112, जे सी रोड, बैंगलूरु–560 002
असाधारण आम बैठक (ईजीएम) की सूचना, निर्दिष्ट कट–ऑफ तिथि
[शेयरधारक निदेशक के चुनाव के संबंध में]
बैंक में संशोधित केनरा बैंक (शेयर और बैठकें) विनियम 2000 (विनियम) और अन्य लागू नियमों के अनुसार केंद्र सरकार के अलावा अन्य शेयरधारकों में से शेयरधारक निदेशक के चुनाव की प्रक्रिया शुरू करने का निर्णय लिया है। इसके द्वारा सूचित किया जाता है कि सुबलाद, 23 अक्टूबर 2024 को निर्दिष्ट कटऑफ तिथि के रूप में तय किया गया है, ताकि उन शेयरधारकों की सूची निर्धारित की जा सके, जो केनरा बैंक के एक कार्यदिवस पूर्व तक चुनाव के लिए पात्र होने (अर्थात चाक्षोकन, चुनाव लड़ने और वोट देने), जिसे केंद्र सरकार के अलावा शेयरधारकों द्वारा अपने बीच से चुना जाएगा, जिसका आयोजन बैंकिंग कंपनियों (उपक्रमों का अधिग्रहण और हस्तांतरण) अधिनियम, 1970 की धारा 9(3)(i) और अन्य लागू नियामक निर्देशों / दिशानिर्देशों के अनुसार बुधवार, 27 नवंबर 2024 को होने वाली बैंकों के शेयरधारकों की असाधारण आम बैठक (ईजीएम) में किया जाएगा।
यह भी सूचित किया जाता है कि विनियम 65 (9) के अनुसार वार्षिक कॉर्ड आदि जमा करने की अंतिम तिथि मंगलवार, 12 नवंबर 2024 को शाम 5.00 बजे तक या उससे पहले की होगी।
वर्तमान एसएसए परियों के अनुपालन में, ईजीएम के नोटिस की इलेक्ट्रानिक प्रतियां उन सभी शेयरधारकों को भेजी जाएंगी जिनके ईमेल पते बैंक / निक्षेपागार सहभागी के साथ पंजीकृत हैं। डीमैट मोड में शेयर रखने वाले शेयरधारकों, जिनके ईमेल आईडी पंजीकृत नहीं हैं, उनसे अनुरोध है कि वे अपने निक्षेपागार सहभागी के माध्यम से अपने संबंधित निक्षेपागार में अपने ईमेल पते और मोबाइल नंबर रजिस्टर्ड कराएं। भौतिक रूप में शेयर रखने वाले शेयरधारकों से अनुरोध है कि वे अपनी होल्डिंग को डीमैट करें / अपना ईमेल पता और मोबाइल नंबर बैंक के रजिस्ट्रार और शेयर हस्तांतरण एजेंट के–बिन टेक्नोलॉजीज लिमिटेड के पास einward.ris@kfintech.com पर उपलब्ध कराएं। ईजीएम की सूचना बैंक की वेबसाइट www.canarabank.com, स्टॉक एक्सचेंज की वेबसाइट और आरटीए की वेबसाइट पर भी उपलब्ध कराई जाएगी जैसा कि ईजीएम के नोटिस में बताया गया है, शेयरधारकों को इलेक्ट्रानिक वोटिंग प्रणाली के माध्यम से पहले ऑफसेट से अपना वोट डालने का अवसर मिलेगा। डीपीटी मोड, फिजिकल मोड में शेयर रखने वाले शेयरधारकों और जिन शेयरधारकों ने अपना ईमेल पता पंजीकृत नहीं कराया है, उनके लिए पुर से मतदान करने का तरीका शेयरधारकों को नोटिस में प्रदान किया जाएगा। बैंक की वेबसाइट पर भी विस्तृत जानकारी उपलब्ध कराई जाएगी जिसमें शेयरधारकों से अनुरोध है कि वे इस तरह की जानकारी प्राप्त करने के लिए www.canarabank.com पर जाएं।
बैठक के लिए सूचना तथा चुनाव के लिए प्रासंगिक पत्र यथासमय जारी किए जाएंगे तथा बै

Wary on China Overseas investors want reforms alongside Beijing's stimulus before committing more of their money © MARKETS

Companies & Markets

Tesla delivery numbers shy of Wall Street expectations

- Hopes of a robust rebound damped
- Status as the top EV maker retained

KANA INAGAKI — LONDON
STEPHEN MORRIS — SAN FRANCISCO
GLORIA LI — HONG KONG

Tesla's quarterly vehicle deliveries fell short of market expectations, dumping hopes for a robust rebound on the back of a recovery in Chinese car demand.

The company delivered 462,890 vehicles globally in the three months to September, up 6.4 per cent from a year earlier. The increase was the first this year but missed Wall Street expectations of more than 463,000 vehicles. Some estimates were as high as 469,828 vehicles. Shares were down 4 per cent by early afternoon in New York.

Tesla retained its position as the top electric vehicle maker. This week, China's BYD reported that third-quarter deliveries of EVs totalled 1 475,426 — a 2.7 per cent rise from the previous year.

For China rival BYD, the battery-powered cars gain was modest but it boosted plug-in hybrid sales 75.6%

The gain in battery-powered cars was modest for BYD, but the group reported a 75.6 per cent increase in sales of plug-in hybrids after it unveiled its latest hybrid technology in May.

Growth in EV sales has slowed globally but prospects in China, the largest car market, have improved after Beijing in July doubled subsidies offered to consumers who switched from a petrol vehicle to an EV or a plug-in hybrid.

Tesla did not provide a geographical breakdown of its deliveries, but industry data and analyst forecasts show that sales were weak in Europe while deliveries in China were up nearly 25 per cent compared with the previous quarter.

In recent weeks, analysts said there was a growing enthusiasm among investors that a boost in Chinese demand would allow the Austin-based company to beat market expectations.

For much of the past two years, Tesla has wrestled with increased competition from the cheaper offerings of EVs as well as plug-in hybrids from Chinese rivals, forcing it to slash prices on some of its models including Model Y.

Mercedes-Benz and Porsche have also recently warned of lower than expected profits as sales of luxury cars in China have been hit by sluggish consumer spending. Barclays analyst Dan Levy said in a note that the miss in deliveries appeared to have been led by weakness in its premium Model S and X vehicles.

The Cybertruck, an off-roader launched last year that has suffered from manufacturing issues and faulty part recalls, also affected the numbers.

The rising expectations for higher deliveries had also come as Tesla prepared to unveil its first "robotaxis" — a fleet of self-driving taxis — next week in an event Elon Musk described as "one for the history books".

Musk has made a strategic pivot towards autonomous driving, artificial intelligence and robotics, telling investors that these technologies would be Tesla's main revenue sources and drive up its valuation.

However, there are concerns over how and when the company will monetise its autonomous taxis with uncertainties around the technology itself, insurance coverage, vehicle cost, as well as the regulatory environment.

Tom Narayan, an analyst at RBC Capital Markets, said that the focus was now on the new opportunities for Tesla from the "robotaxi" and its self-driving software. "I don't see robotaxis being ubiquitous for several years, if not maybe even decades," Narayan said.

"But the reason why it's so exciting is . . . when it happens, it has the potential to dramatically increase the size of the auto industry."

Bellwether Rockefeller Center seeks $3.5bn debt refinancing in test for office real estate



Rockefeller Center has high occupancy and draws tourists to its ice-skating rink and other amenities

ERIC PLATT, JOSHUA OLIVER AND ANTOINE GARA — NEW YORK

New York's Rockefeller Center is finalising plans to raise $3.5bn to refinance debt in a big test of investors' appetite for one of the most beaten-down corners of the property market: massive urban office towers.

Bank of America and Wells Fargo are leading the offering, which is being structured as a single-asset, single-borrower, commercial mortgage-backed security for the Tishman Speyer-owned midtown Manhattan landmark, according to people briefed on the matter.

Although the financing has not been completed, Tishman and would-be lenders believe the capital raise will be successful, according to one of the people involved in the effort. The Canada Pension Plan Investment Board was in talks to participate in the transaction, they said.

The extent of the success or failure of the deal for the iconic art deco complex is being viewed as a bellwether for the midtown office market, with other large asset owners — including Brookfield — watching the transaction ahead of launching their own refinancing efforts for trophy assets.

Rockefeller Center has been able to maintain high occupancy levels and draws throngs of tourists to its ice-skating rink, Radio City Music Hall, annual Christmas tree lighting, restaurants and profitable retail outposts.

Tenants in its 10 office buildings include the investment boutique Lazard, Deloitte, several law firms and other big corporate employers. The 67-storey main tower, known as "30 Rock", is also home to NBC Studios, where the network films the show *Saturday Night Live*.

"If you want to survive as an office in this market, you need a differentiated product and that is what they've done," said one real estate executive following the refinancing. "Rockefeller Center is in an incredible location and it is highly, highly amenitised."

Investors have been wary of financing offices since the Covid-19 pandemic, worried the increase in hybrid work arrangements would slash demand for traditional office space. Although office vacancy rates have risen sharply in the US and Europe, real estate owners are hopeful that top-tier offices are demonstrating robust demand from occupiers.

The 1930s masterpiece built for the Rockefeller family has been managed by Tishman Speyer for decades. The family-led property group bought the complex in 2006 in partnership with the Crown family of Chicago.

Bank of America, Wells Fargo and Canada's pension board declined to comment.

Additional reporting by Sun Yu

LVMH strikes sponsorship deal with Formula One

ADRIENNE KLASA — PARIS

LVMH will become a top sponsor of car racing franchise Formula One as the leading luxury group pushes further into the world of sport.

The agreement would start next year and run for a decade, LVMH said yesterday. The deal is worth just under €100mn a year, according to two people with knowledge of the arrangement.

It will involve several of Bernard Arnault's empire's top brands including Louis Vuitton, the world's biggest luxury brand by sales, drink division Moët Hennessy and watchmaker Tag Heuer.

The deal was led by Frédéric Arnault, the second-youngest of the billionaire patriarch's five children, who was promoted to head LVMH's watchmaking division at the start of the year. He was previously chief executive of Tag Heuer and, like his father, is a graduate of France's top engineering school Ecole Polytechnique.

"The opportunity to scale our commercial arrangements is emblematic of the vision we have for Formula One as the business continues to grow. We look forward to working with Bernard and Frédéric Arnault in the years to come," said Greg Maffei, president and chief executive of Liberty Media.

While luxury groups have long been associated with elite sports such as showjumping and tennis, links with more mainstream sports such as basketball and football are becoming frequent.

The French group's foray into F1 follows its high profile sponsorship of the Paris Olympics, where bars flowed with Moët Hennessy drinks and athletes were awarded medals made by LVMH-owned jeweller Chaumet.

However, a sequence in the opening ceremony centred around monogrammed Louis Vuitton trunks raised some eyebrows as sponsors pushed into previously ad-free spaces in the event.

Earlier this year, LVMH launched a new Louis Vuitton ad campaign featuring tennis stars Roger Federer and Rafael Nadal hiking in the alps. It was a new iteration of a 2022 campaign featuring footballers Cristiano Ronaldo and Lionel Messi playing chess.

F1 has been on a years-long push into new markets and audiences. Since US-based Liberty Media acquired it for $8bn in 2017, the racing calendar has expanded to flashy locales in Miami and Las Vegas, and Netflix docu-series *Drive to Survive* has helped boost viewership.

Contracts & Tenders

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, Saptagiri - I, Benakanahalli Lake, Cunningham Place, New Delhi - 110001, Visit at Fax: 011-23443990
Website: www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.pfcclindia.com and https://www.pfcetrip.com. The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 28.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing-A, Statesman House, Connaught Place, New Delhi–110001. Tel. 91-11-23443990, Fax: 91-11-23443990; e-mail: pfcrf.rfp@pfcindia.com. The RFP documents can also be downloaded from https://www.pfcclindia.com, however in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in the respect are as follows:

Sl. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP (dd/mm/yyyy)
1	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Bannur-II PS	18.10.2024	08.12.2024 up to 15:00 hrs (IST)	08.12.2024 up to 15:30 hrs (IST)
2	North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	04.12.2024 up to 15:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer

2nd Private Coordinator — PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)
An Initiative of — Ministry of Power, Government of India
Initiative Partner — Central Electricity Authority

Financial

THE ROYAL BANK OF CANADA
U.S. $300,000,000 Floating Rate
Debentures due 2026

NOTICE IS HEREBY GIVEN that for the Interest Period commencing on 30th September, 2024 the Notes will bear interest at the rate of 6.06250% per annum. The interest payable on 31st December, 2024 against Coupon No. 138 will be U.S.$18.80760 per U.S. $1,000 note(s).

Agent Bank
RBC Capital Markets®

Imagine your advert here

Raspberry Pi has charmed its way to a UK computer revival

John Gapper



Raspberry Pi is a quirky enterprise. Started by a foundation to make cheap microcomputers for schools, it expanded into industrial technology before listing in London in June. When it announced its first public financial results last week, its shares rose 9 per cent, giving it a market value of about £720mn.

The company is based in Cambridge the city where the pioneering Acorn Computers was founded in 1978. Acorn spun off its chip design division to form Arm before failing in the 1990s. Raspberry Pi was conceived in the university's computer science department but has transcended its origins.

Its single-board devices, mostly assembled in the UK by Sony at a factory in Wales, are remarkably cheap. Its latest Raspberry Pi 5 basic model costs less than £50 and a microprocessor with its own design of chip is about £5. Having started in schools and home projects, they are popping up in many machines, from electric vehicle chargers to flight information screens.

Raspberry Pi has always been charming; it now has a global following of enthusiasts, including 3.2mn subscribers to its Reddit forum, compared with Nvidia's 1.9mn. Its grassroots approach appeals to a traditional tech culture of hackers and makers, rather than companies such as Apple and Microsoft. As it joins the mainstream, it will be harder to maintain this spirit.

It was born of frustration among Cambridge academics in the early 2000s that there were fewer applications for degrees in computer science than for other courses because it was not taught in schools. One of these was Eben Upton, now its co-founder and chief executive. "We asked, 'Where have all the kids gone?' . . . The idea behind Raspberry Pi was that an object was missing."

Upton had learnt technology at school on a BBC Micro computer made by Acorn (he also bought his own). With Acorn's demise, the BBC Micro was no longer on sale, so they set out to encourage computing skills through the Raspberry Pi Foundation. As well as supporting education, it started a company that launched the first device in 2012.

> It was born of frustration. "We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was an object was missing'

It discovered an unmet need, receiving 100,000 orders on the first day and selling 1mn devices in its first year. The boards were so cheap and versatile that enthusiasts adopted them *en masse*. Arm has invested in Raspberry Pi and Paul Williamson, a senior Arm executive, recalls that his then 13-year-old son used one to install a camera in the family's bird feeding box.

Raspberry Pi soon expanded beyond education and enthusiasts. Hardware engineers started to test devices using its boards, and they later found their way into industrial machines themselves. About 70 per cent of its sales now stem from such uses and 30 per cent from education and hobbyists. "It is emerging as a globally significant company," Williamson said.

Despite its cute image, Raspberry Pi is a sophisticated operation. Upton compares it wryly with "the other computer company named after a fruit" in its degree of vertical integration: it designs much of its own software and hardware, including chips made by TSMC in Taiwan. It is a fraction of Apple's size, but has found a niche.

How will it now fare? One risk is it burns out in a competitive industry, as Acorn did before: it already has fruit-themed rivals, such as Banana Pi of Shenzhen, China. Barriers to entry are low, given many rivals can design chips and contract out assembly. Raspberry Pi has to keep refining while staying cheap.

The second danger is that its charm fades as it becomes more commercial. The foundation gained £136mn by selling shares in the June offering, and is now an arm's-length investor with a stake of less than 50 per cent. The company has made it wealthier than anyone expected, but the relationship has become more distant.

Still, this is a moment to pause and appreciate an unusual British success. Raspberry Pi has defied the trend of UK-based technology companies that have listed in the US, including Arm. It has also revived Cambridge's history of making hardware, reaching back to the Edsac or electronic delay storage automatic calculator built in 1949 by Maurice Wilkes, then head of ice computer laboratory.

One way of measuring its impact is that it has joined the FTSE 250 index. Another is that Cambridge university's undergraduate computer science degree now attracts more than 10 applications per place. Two decades after its tutees dreamt of a new machine, Raspberry Pi has worked.

john.gapper@ft.com

Wary on China Overseas investors want reforms alongside Beijing's stimulus before committing more of their money ⊕ MARKETS

Companies & Markets

Tesla delivery numbers shy of Wall Street expectations

- Hopes of a robust rebound damped
- Status as the top EV maker retained

XANA INAGAKI — LONDON
STEPHEN MORRIS — SAN FRANCISCO
GLORIA LI — HONG KONG

Tesla's quarterly vehicle deliveries fell short of market expectations, dampening hopes for a robust rebound on the back of a recovery in Chinese car demand.

The company delivered 462,890 vehicles globally in the three months to September, up 6.4 per cent from a year earlier. The increase was the first this year but missed Wall Street expectations of more than 465,000 vehicles. Some estimates were as high as 469,828 vehicles. Shares were down 4 per cent by early afternoon in New York.

Tesla retained its position as the top electric vehicle maker. This week, China's BYD reported that third-quarter deliveries of its EVs totalled 443,426 — a 2.7 per cent rise from the previous year.

> For China rival BYD, the battery-powered cars gain was modest but it boosted plug-in hybrid sales 75.6%

The gain in battery-powered cars was modest for BYD, but the group reported a 75.6 per cent increase in sales of plug-in hybrids after it unveiled its latest hybrid technology in May.

Growth in EV sales has slowed globally but prospects in China, the largest car market, have improved after Beijing in July doubled subsidies offered to consumers who switched from a petrol vehicle to an EV or a plug-in hybrid.

Tesla did not provide a geographical breakdown of its deliveries. But industry data and analyst forecasts show that sales were weak in Europe while deliveries in China were up nearly 25 per cent compared with the previous quarter.

In recent weeks, analysts said there was a growing enthusiasm among investors that a boost in Chinese demand would allow the Austin-based company to beat market expectations.

For much of the past two years, Tesla has wrestled with increased competition from the cheaper offerings of EVs as well as plug-in hybrids from Chinese rivals, forcing it to slash prices on some of its models including lease prices.

Mercedes-Benz and Porsche have also recently warned of lower than expected profits as sales of luxury cars in China have been hit by sluggish consumer spending. Barclays analyst Dan Levy said in a note that the miss in deliveries appeared to have been led by weakness in its premium Model S and X vehicles.

The Cybertruck, an off-roader launched last year that has suffered from manufacturing issues and faulty part recalls, also affected the numbers.

The rising expectations for higher deliveries had also come as Tesla prepared to unveil its first "robotaxis" — a fleet of self-driving taxis — next week in an event Elon Musk described as "one for the history books".

Musk has made a strategic pivot towards autonomous driving, artificial intelligence and robotics, telling investors that these technologies would be Tesla's main revenue sources and drive up its valuation.

However, there are concerns over how and when the company will monetise its autonomous taxis with uncertainties around the technology itself, insurance coverage, vehicle cost, as well as the regulatory environment.

Tom Narayan, an analyst at RBC Capital Markets, said that the focus was now on the new opportunities for Tesla from the "robotaxi" and its self-driving software. "I don't see robotaxis being ubiquitous for several years, if not maybe even decades," Narayan said.

"But the reason why it's so exciting is . . . when it happens, it has the potential to dramatically increase the size of the auto industry."

Bellwether Rockefeller Center seeks $3.5bn debt refinancing in test for office real estate



Rockefeller Center has high occupancy and draws tourists to its ice-skating rink and other amenities — Jose Luis Pita

ERIC PLATT, JOSHUA OLIVER AND ANTOINE GARA — NEW YORK

New York's Rockefeller Center is finalising plans to raise $3.5bn to refinance debt in a big test of investors' appetite for one of the most beaten-down corners of the property market: massive urban office towers.

Bank of America and Wells Fargo are leading the offering, which is being structured as a single-asset, single-borrower, commercial mortgage-backed security for the Tishman Speyer-owned midtown Manhattan landmark, according to people briefed on the matter.

Although the financing has not been completed, Tishman and would-be lenders believe the capital raise will be successful, according to one of the people involved in the effort. The Canada Pension Plan Investment Board was in talks to participate in the transaction, they said.

The extent of the success or failure of the deal for the iconic art deco complex is being viewed as a bellwether for the midtown office market, with other large asset owners — including Brookfield — watching the transaction ahead of launching their own refinancing efforts for trophy assets.

Rockefeller Center has been able to maintain high occupancy levels and draws throngs of tourists to its ice-skating rink, Radio City Music Hall, annual Christmas tree lighting, restaurants and profitable retail outposts.

Tenants in its 10 office buildings include the investment boutique Lazard, Deloitte, several law firms and other big corporate employers. The 67-storey main tower, known as "30 Rock", is also home to NBC Studios, where the network films the show *Saturday Night Live*.

"If you want to survive as an office in this market, you need a differentiated product and that is what they've done," said one real estate executive following the refinancing. "Rockefeller Center is in an incredible location and it is highly, highly amenitised."

Investors have been wary of financing offices since the Covid-19 pandemic, worried the increase in hybrid work arrangements would slash demand for traditional office space. Although office vacancy rates have risen sharply in the US and Europe, real estate owners are hopeful that top-tier offices are demonstrating robust demand from occupiers.

The 1930s masterpiece built for the Rockefeller family has been managed by Tishman Speyer for decades. The family-led property group bought the complex in 2000 in partnership with the Crown family of Chicago.

Bank of America, Wells Fargo and Canada's pension board declined to comment.

Additional reporting by Sun Yu

LVMH strikes sponsorship deal with Formula One

ADRIENNE KLASA — PARIS

LVMH will become a top sponsor of car racing franchise Formula One as the leading luxury group pushes further into the world of sport.

The agreement would start next year and run for a decade, LVMH said yesterday. The deal is worth just under €100mn a year, according to two people with knowledge of the arrangement.

It will involve several of Bernard Arnault's empire's top brands including Louis Vuitton, the world's biggest luxury brand by sales, drink division Moët Hennessy and watchmaker Tag Heuer.

The deal was led by Frédéric Arnault, the second-youngest of the billionaire patriarch's five children, who was promoted to head LVMH's watchmaking division at the start of the year. He was previously chief executive of Tag Heuer and, like his father, is a graduate of France's top engineering school Ecole Polytechnique.

"The opportunity to scale our commercial arrangements is emblematic of the vision we have for Formula One as the business continues to grow. We look forward to working with Bernard and Frédéric Arnault in the years to come," said Greg Maffei, president and chief executive of F1 owner Liberty Media.

While luxury groups have long been associated with elite sports such as showjumping and tennis, links with more mainstream sports such as basketball and football are becoming frequent.

The French group's foray into F1 follows its high-profile sponsorship of the Paris Olympics, where bars flowed with Moët Hennessy drinks and athletes were awarded medals made by LVMH-owned jeweller Chaumet.

However, a sequence in the opening ceremony centred around monogrammed Louis Vuitton trunks raised some eyebrows as sponsors pushed into previously ad-free spaces in the event.

Earlier this year, LVMH launched a new Louis Vuitton ad campaign featuring tennis stars Roger Federer and Rafael Nadal biking in the alps. It was a new iteration of a 2022 campaign featuring footballers Cristiano Ronaldo and Lionel Messi playing chess.

F1 has been on a years-long push into new markets and audiences. Since US-based Liberty Media acquired it for $8bn in 2017, the racing calendar has expanded to flashy locales in Miami and Las Vegas, and Netflix docu-series *Drive to Survive* has helped boost viewership.

Contracts & Tenders

PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)
Regd. Office: 1st Floor, Upper Hall, 1, Barakhamba Lane, Connaught Place, New Delhi – 110001 (India) Fax: 011-23417010
Website: www.pfcconsulting.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of Transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of 'Request for Proposals' (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.mstcecommerce.com and https://www.pfcindia.com

The documents may obtain the RFP documents on all working days between 10.00 hrs (IST) and 16.00 hrs (IST) from 26.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001, Tel.: 91-11-23443998; Fax: 91-11-23441959, e-mail: pfcclltd@pfcindia.com. The RFP documents can also be downloaded from https://www.mstcecommerce.com and https://www.pfcindia.com. However, in such case, interested party can submit Proposal to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as under:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (date/time/day)	Last Date for submission of response to RFP (date/time/day)	Date of opening of Response to RFP (date/time/day)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Barmer-I PS	18.10.2024	05.12.2024 up to 13:00 hrs (IST)	05.12.2024 up to 16:00 hrs (IST)
2.	North-Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	04.12.2024 up to 13:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator: PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)
An Initiative of: Ministry of Power, Government of India
Initiative Partner: Central Electricity Authority

Financial

THE ROYAL BANK OF CANADA
U.S. $300,000,000 Floating Rate
Debentures due 2085
NOTICE IS HEREBY GIVEN that for the Interest Period commencing on 30th September 2024, the Notes will bear interest at the rate of 5.60200% per annum. The interest payable on 31st December, 2024 against Coupon No. 156 will be U.S.$72.93760 per U.S.$1,000 nominal.
Agent Bank: RBC Capital Markets®

Imagine your advert here

Raspberry Pi has charmed its way to a UK computer revival

John Gapper



Raspberry Pi is a quirky enterprise. Started by a foundation to make cheap microcomputers for schools, it expanded into industrial technology before listing in London in June. When it announced its first public financial results last week, its shares rose 9 per cent, giving it a market value of about £720mn.

The company is based in Cambridge, the city where the pioneering Acorn Computers was founded in 1978. Acorn spun off its chip design division to form Arm before failing in the 1980s. Raspberry Pi was conceived in the university's computer science department, but has transcended its origins.

Its single-board devices, mostly assembled in the UK by Sony at a factory in Wales, are remarkably cheap. Its latest Raspberry Pi 5 basic model costs less than £50 and a microprocessor with its own design of chip is about £5. Having started in schools and home projects, they are popping up in many machines, from electric vehicle chargers to flight information screens.

Raspberry Pi has always been charming. It now has a global following of enthusiasts, including 3.2mn subscribers to its Reddit forum, compared with Nvidia's 1.9mn. Its grassroots approach appeals to a traditional tech culture of hackers and makers, rather than companies such as Apple and Microsoft. As it joins the mainstream, it will be harder to maintain this spirit.

It was born of frustration among Cambridge academics in the early 2000s that there were fewer applications for degrees in computer science than for other courses because it was not taught in schools. One of those was Eben Upton, now its co-founder and chief executive. "We asked, 'Where have all the kids gone?' . . . The idea behind Raspberry Pi was that an object was missing."

Upton had learnt technology at school on a BBC Micro computer made by Acorn (he also bought his own). With Acorn's demise, the BBC Micro was no longer on sale, so they set out to encourage computing skills through the Raspberry Pi Foundation. As well as supporting education, it started a company that launched the first device in 2012.

> It was born of frustration. 'We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was an object was missing'

It discovered an unmet need, receiving 100,000 orders on the first day and selling 1mn devices in its first year. The boards were so cheap and versatile that enthusiasts adopted them *en masse*. Arm has invested in Raspberry Pi and Paul Williamson, a senior Arm executive, recalls that his then 15-year-old son used one to install a camera in the family's bird feeding box.

Raspberry Pi soon expanded beyond education and enthusiasts. Hardware engineers started to test devices using its boards, and they later found their way into industrial machines themselves. About 70 per cent of its sales now stem from such uses and 30 per cent from education and hobbyists. "It is emerging as a globally significant company," Williamson said.

Despite its static image, Raspberry Pi is a sophisticated operation. Upton compares it wryly with "the other computer company named after a fruit" in its degree of vertical integration: it designs much of its own software and hardware, including chips made by TSMC in Taiwan. It is a fraction of Apple's size, but has found a niche.

How will it now fare? One risk is it burns out in a competitive industry, as Acorn did before: it already has fruit-themed rivals, such as Banana Pi of Shenzhen, China. Barriers to entry are low, given many rivals can design chips and contract out assembly. Raspberry Pi has to keep refining while staying cheap.

The second danger is that its charm fades as it becomes more commercial. The foundation gained £136mn by selling shares in the June offering, and is now an arm's-length investor with a stake of less than 50 per cent. The company has made it wealthier than anyone expected, but the relationship has become more distant.

Still, this is a moment to pause and appreciate an unusual British success. Raspberry Pi has defied the trend of UK-based technology companies that have listed in the US, including Arm. It has also revived Cambridge's history of making hardware, reaching back to the Edsac electronic delay storage automatic calculator built in 1949 by Maurice Wilkes, then head of its computer laboratory.

One way of measuring its impact is that it has joined the FTSE 250 index. Another is that Cambridge university's undergraduate computer science degree now attracts more than 10 applications per place. Two decades after its tutors dreamt of a new machine, Raspberry Pi has worked.

john.gapper@ft.com

6 ★ FINANCIAL TIMES Thursday 3 October 2024

Wary on China Overseas investors want reforms alongside Beijing's stimulus before committing more of their money ● MARKETS

Companies & Markets

Tesla delivery numbers shy of Wall Street expectations

- Hopes of a robust rebound damped
- Status as the top EV maker retained

KANA INAGAKI — LONDON
STEPHEN MORRIS — SAN FRANCISCO
GLORIA LI — HONG KONG

Tesla's quarterly vehicle deliveries fell short of market expectations, dampening hopes for a robust rebound on the back of a recovery in Chinese car demand.

The company delivered 462,890 vehicles globally in the three months to September, up 6.4 per cent from a year earlier. The increase was the first this year but missed Wall Street expectations of more than 463,000 vehicles. Some estimates were as high as 469,828 vehicles. Shares were down 4 per cent by early afternoon in New York.

Tesla retained its position as the top electric vehicle maker. This week, China's BYD reported that third-quarter deliveries of EVs totalled 443,436 — a 2.7 per cent rise from the previous year.

> For China rival BYD, the battery-powered cars gain was modest but it boosted plug-in hybrid sales 75.6%

The gain in battery-powered cars was modest for BYD, but the group reported a 75.6 per cent increase in sales of plug-in hybrids after it unveiled its latest hybrid technology in May.

Growth in EV sales has slowed globally but prospects in China, the largest car market, have improved after Beijing in July doubled subsidies offered to consumers who switched from a petrol vehicle to an EV or a plug-in hybrid.

Tesla did not provide a geographical breakdown of its deliveries, but industry data and analyst forecasts show that sales were weak in Europe while deliveries in China were up nearly 25 per cent compared with the previous quarter.

In recent weeks, analysts said there was a growing enthusiasm among investors that a boost in Chinese demand would allow the Austin-based company to beat market expectations.

For much of the past two years, Tesla has wrestled with increased competition from the cheaper offerings of EVs as well as plug-in hybrids from Chinese rivals, forcing it to slash prices on some of its models including lower prices.

Mercedes-Benz and Porsche have also recently warned of lower than expected profits as sales of luxury cars in China have been hit by sluggish consumer spending. Barclays analyst Dan Levy said in a note that the miss in deliveries appeared to have been led by weakness in its premium Model S and X vehicles.

The Cybertruck, an off-roader launched last year that has suffered from manufacturing issues and faulty part recalls, also affected the numbers.

The rising expectations for higher deliveries had also come as Tesla prepared to unveil its first "robotaxis" — a fleet of self-driving taxis — next week in an event Elon Musk described as "one for the history books".

Musk has made a strategic pivot towards autonomous driving, artificial intelligence and robotics, telling investors that these technologies would be Tesla's main revenue sources and drive up its valuation.

However, there are concerns over how and when the company will monetise its autonomous taxis with uncertainties around the technology itself, insurance coverage, vehicle cost, as well as the regulatory environment.

Tom Narayan, an analyst at RBC Capital Markets, said that the focus was now on the new opportunities for Tesla from the "robotaxi" and its self-driving software. "I don't see robotaxis being ubiquitous for several years, if not maybe even decades," Narayan said.

"But the reason why it's so exciting is . . . when it happens, it has the potential to dramatically increase the size of the auto industry."

Bellwether Rockefeller Center seeks $3.5bn debt refinancing in test for office real estate



Rockefeller Center has high occupancy and draws tourists to its ice-skating rink and other amenities

ERIC PLATT, JOSHUA OLIVER AND ANTOINE GARA — NEW YORK

New York's Rockefeller Center is finalising plans to raise $3.5bn to refinance debt in a big test of investors' appetite for one of the most beaten-down corners of the property market: massive urban office towers.

Bank of America and Wells Fargo are leading the offering, which is being structured as a single-asset, single-borrower, commercial mortgage-backed security for the Tishman Speyer-owned midtown Manhattan landmark, according to people briefed on the matter.

Although the financing has not been completed, Tishman and would-be lenders believe the capital raise will be successful, according to one of the people involved in the effort. The Canada Pension Plan Investment Board was in talks to participate in the transaction, they said.

The extent of the success or failure of the deal for the iconic art deco complex is being viewed as a bellwether for the midtown office market, with other large asset owners — including Brookfield — watching the transaction ahead of launching their own refinancing efforts for trophy assets.

Rockefeller Center has been able to maintain high occupancy levels and draws throngs of tourists to its ice-skating rink. Radio City Music Hall, annual Christmas tree lighting, restaurants and profitable retail outposts.

Tenants in its 10 office buildings include the investment boutique Lazard, Deloitte, several law firms and other big corporate employers. The 67-storey main tower, known as "30 Rock", is also home to NBC Studios, where the network films the show *Saturday Night Live*.

"If you want to survive as an office in this market, you need a differentiated product and that is what they've done," said one real estate executive following the refinancing. "Rockefeller Center is in an incredible location and it is highly, highly amenitised."

Investors have been wary of financing offices since the Covid-19 pandemic, worried the increase in hybrid work arrangements would slash demand for traditional office space. Although office vacancy rates have risen sharply in the US and Europe, real estate owners are hopeful that top-tier offices are demonstrating robust demand from occupiers.

The 1930s masterpiece built for the Rockefeller family has been managed by Tishman Speyer for decades. The family-led property group bought the complex in 2000 in partnership with the Crown family of Chicago.

Bank of America, Wells Fargo and Canada's pension board declined to comment.

Additional reporting by Sun Yu

LVMH strikes sponsorship deal with Formula One

ADRIENNE KLASA — PARIS

LVMH will become a top sponsor of car racing franchise Formula One as the leading luxury group pushes further into the world of sport.

The agreement would start next year and run for a decade, LVMH said yesterday. The deal is worth just under €100mn a year, according to two people with knowledge of the arrangement.

It will involve several of Bernard Arnault's empire's top brands including Louis Vuitton, the world's biggest luxury brand by sales, drink division Moët Hennessy and watchmaker Tag Heuer.

The deal was led by Frédéric Arnault, the second-youngest of the billionaire patriarch's five children, who was promoted to head LVMH's watchmaking division at the start of the year. He was previously chief executive of Tag Heuer and, like his father, is a graduate of France's top engineering school École Polytechnique.

"The opportunity to scale our commercial arrangements is emblematic of the vision we have for Formula One as the business continues to grow. We look forward to working with Bernard and Frédéric Arnault in the years to come," said Greg Maffei, president and chief executive of F1 owner Liberty Media.

While luxury groups have long been associated with elite sports such as showjumping and tennis, links with more mainstream sports such as basketball and football are becoming frequent.

The French group's foray into F1 follows its high-profile sponsorship of the Paris Olympics, where bars flowed with Moët Hennessy drinks and athletes were awarded medals made by LVMH-owned jeweller Chaumet.

However, a sequence in the opening ceremony centred around monogrammed Louis Vuitton trunks raised some eyebrows as sponsors pushed into previously ad-free spaces in the event.

Earlier this year, LVMH launched a new Louis Vuitton ad campaign featuring tennis stars Roger Federer and Rafael Nadal hiking in the alps. It was a new iteration of a 2022 campaign featuring footballers Cristiano Ronaldo and Lionel Messi playing chess.

F1 has been on a years-long push into new markets and audiences. Since US-based Liberty Media acquired it for $8bn in 2017, the racing calendar has expanded to flashy locales in Miami and Las Vegas, and Netflix docu-series *Drive to Survive* has helped boost viewership.

Contracts & Tenders

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Ltd.)
Regd. Office: First Floor, Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi – 110001 (India) Fax: 011-23442996
Website: www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER OR BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of 'Request for Proposal' (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.mstcecommerce.com and https://www.pfcclindia.com.
The Bidders may obtain the RFP documents on all working days between 10.30 hrs (IST) and 16:00 hrs (IST) from 25.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 6th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001, Tel: 91-11-23443090; Fax: 91-11-23443090; e-mail: pfccl.tbcb@pfcclindia.com. The RFP documents can also be downloaded from https://www.mstcecommerce.com and https://www.pfcclindia.com, however, in such case, Interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc. if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP (dd/mm/yyyy)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Bhadla-IV PS	10.10.2024	03.12.2024 up to 15:00 hrs (IST)	03.12.2024 up to 15:30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXV (NER-XXV) Part-A	15.10.2024	04.12.2024 up to 15:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator — An Initiative of — Initiative Partner
PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking) — Ministry of Power, Government of India — Central Electricity Authority

Finance

THE ROYAL BANK OF CANADA
U.S. $300,000,000 Floating Rate
Debentures due 2026
NOTICE IS HEREBY GIVEN that for the Interest Period commencing on 30th September, 2024, the Notes will bear interest at the rate of 5.58313% per annum. The interest payable on 31st December, 2024 against Coupon no. 166 will be U.S.$ 2.33150 per U.S. $1,000 nominal.
Agent Bank
RBC Capital Markets®

Imagine your advert here

Raspberry Pi has charmed its way to a UK computer revival

John Gapper



Raspberry Pi is a quirky enterprise. Started by a foundation to make cheap microcomputers for schools, it expanded into industrial technology before listing in London in June. When it announced its first public financial results last week, its shares rose 9 per cent, giving it a market value of about £720mn.

The company is based in Cambridge, the city where the pioneering Acorn Computers was founded in 1978. Acorn spun off its chip-design division to form Arm before failing in the 1990s. Raspberry Pi was conceived in the university's computer science department, but has transcended its origins.

Its single-board devices, mostly assembled in the UK by Sony at a factory in Wales, are remarkably cheap: its latest Raspberry Pi 5 basic model costs less than £50 and a microprocessor with its own design of chip is about £5. Having started in schools and home projects, they are popping up in many machines, from electric vehicle chargers to flight information screens.

Raspberry Pi has always been charming: it now has a global following of enthusiasts, including 3.2mn subscribers to its Reddit forum, compared with Nvidia's 1.9mn. Its grassroots approach appeals to a traditional tech culture of hackers and makers, rather than companies such as Apple and Microsoft. As it joins the mainstream, it will be harder to maintain this spirit.

It was born of frustration among Cambridge academics in the early 2000s that there were fewer applications for degrees in computer science than for other courses because it was not taught in schools. One of these was Eben Upton, now its co-founder and chief executive. "We asked, 'Where have all the kids gone?' . . . The idea behind Raspberry Pi was that an object was missing."

Upton had learnt technology at school on a BBC Micro computer made by Acorn (he also bought his own). With Acorn's demise, the BBC Micro was no longer on sale, so they set out to encourage computing skills through the Raspberry Pi Foundation. As well as supporting education, it started a company that launched the first device in 2012.

> It was born of frustration. "We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was an object was missing"

It discovered an unmet need, receiving 100,000 orders on the first day and selling 1mn devices in its first year. The boards were so cheap and versatile that enthusiasts adopted them *en masse*. Arm has invested in Raspberry Pi and Paul Williamson, a senior Arm executive, recalls that his then 13-year-old son used one to install a camera in the family's bird feeding box.

Raspberry Pi soon expanded beyond education and enthusiasts. Hardware engineers started to test devices using its boards, and they later found their way into industrial machines themselves. About 70 per cent of its sales now stem from such uses and 30 per cent from education and hobbyists. "It is emerging as a globally significant company," Williamson said.

Despite its cute image, Raspberry Pi is a sophisticated operation. Upton compares it wryly with "the other computer company named after a fruit" in its degree of vertical integration: it designs much of its own software and hardware, including chips made by TSMC in Taiwan. It is a fraction of Apple's size, but has found a niche.

How will it now fare? One risk is it burns out in a competitive industry, as Acorn did before: it already has fruit-themed rivals, such as Banana Pi of Shenzhen, China. Barriers to entry are low, given many rivals can design chips and contract out assembly. Raspberry Pi has to keep refining while staying cheap.

The second danger is that its charm fades as it becomes more commercial. The foundation gained £36mn by selling shares in the June offering, and is now an arm's length investor with a stake of less than 50 per cent. The company has made it wealthier than anyone expected, but the relationship has become more distant.

Still, this is a moment to pause and appreciate an unusual British success. Raspberry Pi has defied the trend of UK-based technology companies that have listed in the US, including Arm. It has also revived Cambridge's history of making hardware, reaching back to the Edsac or electronic delay storage automatic calculator built in 1949 by Maurice Wilkes, then head of its computer laboratory.

One way of measuring its impact is that it has joined the FTSE 250 index. Another is that Cambridge university's undergraduate computer science degree now attracts more than 10 applications per place. Two decades after its tutors dreamt of a new machine, Raspberry Pi has worked.

john.gapper@ft.com

Wary on China Overseas investors want reforms alongside Beijing's stimulus before committing more money ● MARKETS, PAGE 14

Companies & Markets

Tesla delivery numbers shy of Wall Street expectations

- Hopes of a robust rebound damped
- Status as the top EV maker retained

ZANA INAGAKI — LONDON
STEPHEN MORRIS — SAN FRANCISCO
GLORIA LI — HONG KONG

Tesla's quarterly vehicle deliveries fell short of market expectations, damping hopes for a robust rebound on the back of a recovery in Chinese car demand.

The company delivered 462,890 vehicles globally in the three months to September, up 6.4 per cent from a year earlier. The increase was the first this year but missed Wall Street expectations of more than 465,000 vehicles. Some estimates were as high as 469,828 vehicles. Shares were down 4 per cent by early afternoon in New York.

Tesla retained its position as the top electric vehicle maker. This week, China's BYD reported that third-quarter deliveries of EVs totalled 443,426 — a 2.7 per cent rise from the previous year.

> For China rival BYD, the battery-powered cars gain was modest but it boosted plug-in hybrid sales 75.6%

The gain in battery-powered cars was modest for BYD, but the group reported a 75.6 per cent increase in sales of plug-in hybrids after it unveiled its latest hybrid technology in May.

Growth in EV sales has slowed globally but prospects in China, the largest car market, have improved after Beijing in July doubled subsidies offered to consumers who switched from a petrol vehicle to an EV or a plug-in hybrid.

Tesla did not provide a geographical breakdown of its deliveries, but industry data and analyst forecasts show that sales were weak in Europe while deliveries in China were up nearly 25 per cent compared with the previous quarter.

In recent weeks, analysts said there was a growing enthusiasm among investors that a boost in Chinese demand would allow the Austin-based company to beat market expectations.

For much of the past two years, Tesla has wrestled with increased competition from the cheaper offerings of EVs as well as plug-in hybrids from Chinese rivals, forcing it to slash prices on some of its models including lease prices.

Mercedes-Benz and Porsche have also recently warned of lower than expected profits as sales of luxury cars in China have been hit by sluggish consumer spending. Barclays analyst Dan Levy said in a note that the miss in deliveries appeared to have been led by weakness in its premium Model S and X vehicles.

The Cybertruck, an off-roader launched last year that has suffered from manufacturing issues and faulty part recalls, also affected the numbers.

The rising expectations for higher deliveries had also come as Tesla prepared to unveil its first "robotaxis" — a fleet of self-driving taxis — next week in an event Elon Musk described as "one for the history books".

Musk has made a strategic pivot towards autonomous driving, artificial intelligence and robotics, telling investors that these technologies would be Tesla's main revenue sources and drive up its valuation.

However, there are concerns over how and when the company will monetise its autonomous taxis with uncertainties around the technology itself, insurance coverage, vehicle cost, as well as the regulatory environment.

Tom Narayan, an analyst at RBC Capital Markets, said that the focus was now on the new opportunities for Tesla from the "robotaxi" and its self-driving software. "I don't see robotaxis being ubiquitous for several years, if not maybe even decades," Narayan said.

"But the reason why it's so exciting is . . . when it happens, it has the potential to dramatically increase the size of the auto industry."

Bellwether Rockefeller Center seeks $3.5bn debt refinancing in test for office real estate



Rockefeller Center has high occupancy and draws tourists to its ice-skating rink and other amenities — [illegible]

ERIC PLATT, JOSHUA OLIVER AND ANTOINE GARA — NEW YORK

New York's Rockefeller Center is finalising plans to raise $3.5bn to refinance debt in a big test of investors' appetite for one of the most beaten-down corners of the property market: massive urban office towers.

Bank of America and Wells Fargo are leading the offering, which is being structured as a single-asset, single-borrower, commercial mortgage-backed security for the Tishman Speyer-owned midtown Manhattan landmark, according to people briefed on the matter.

Although the financing has not been completed, Tishman and would-be lenders believe the capital raise will be successful, according to one of the people involved in the effort. The Canada Pension Plan Investment Board was in talks to participate in the transaction, they said.

The extent of the success or failure of the deal for the iconic art deco complex is being viewed as a bellwether for the midtown office market, with other large asset owners — including Brookfield — watching the transaction ahead of launching their own refinancing efforts for trophy assets.

Rockefeller Center has been able to maintain high occupancy levels and draws throngs of tourists to its ice-skating rink, Radio City Music Hall, annual Christmas tree lighting, restaurants and profitable retail outposts.

Tenants in its 10 office buildings include the investment boutique Lazard, Deloitte, several law firms and other big corporate employers. The 67-storey main tower, known as "30 Rock", is also home to NBC Studios, where the network films the show *Saturday Night Live*.

"If you want to survive as an office in this market, you need a differentiated product and that is what they've done," said one real estate executive following the refinancing. "Rockefeller Center is in an incredible location and it is highly, highly amenitised."

Investors have been wary of financing offices since the Covid-19 pandemic, worried the increase in hybrid work arrangements would slash demand for traditional office space. Although office vacancy rates have risen sharply in the US and Europe, real estate owners are hopeful that top-tier offices are demonstrating robust demand from occupiers.

The 1930s masterpiece built for the Rockefeller family has been managed by Tishman Speyer for decades. The family-led property group bought the complex in 2000 in partnership with the Crown family of Chicago.

Bank of America, Wells Fargo and Canada's pension board declined to comment.

Additional reporting by Sun Yu

Toyota invests $500mn in US flying taxi start-up Joby

SYLVIA PFEIFER — LONDON
DAVID KEOHANE — TOKYO

Toyota is investing an extra $500mn in Joby Aviation as the carmaker increases its stake in the air taxi start-up that aims to launch commercial services as soon as next year.

The investment from the Japanese company, which is Joby's largest external shareholder, is tied to a wider strategic alliance to help the US group commercialise and manufacture its air taxis.

JoeBen Bevirt, Joby's founder and chief executive, said he was looking forward to building a manufacturing alliance with Toyota to "really scale this new model of transportation".

Founded in 2009, the California-based company listed on the New York Stock Exchange in 2021. It is among several start-ups and aerospace incumbents hoping to make the vision of emission-free "urban air mobility" a reality through the launch of "electric vertical take-off and landing" (eVTOL) aircraft.

Several start-ups have been forced to tap investors for more funding in recent months and push back certification milestones as the challenges of developing these aircraft have become clearer. There are also other hurdles, such as building the necessary infrastructure and winning public acceptance.

Joby is among the better capitalised players and had raised more than $2bn prior to Toyota's latest commitment.

Its aircraft is the first eVTOL to have its certification plans accepted by the US aviation safety regulator, the Federal Aviation Administration, and it is working towards full approval.

Bevirt said the company was aiming to launch its first commercial service in Dubai next year. A pilot production line in Marina, California, is up and running with plans to increase capacity to one vehicle a month by the end of this year.

The new investment from Toyota "builds on nearly seven years of collaboration" between the two companies, said Bevirt. It will take Toyota's total commitment to close to $900mn. The investment would increase Toyota's stake in Joby, whose other backers include asset manager Baillie Gifford, to more than 20 per cent, he added.

"Air mobility has the potential to significantly change the way people move and live in the future mobility society, and its commercialisation has been one of Toyota's dreams since its founding," Toyota said.

Raspberry Pi has charmed its way to a UK computer revival

John Gapper



Raspberry Pi is a quirky enterprise. Started by a foundation to make cheap microcomputers for schools, it expanded into industrial technology before listing in London in June. When it announced its first public financial results last week, its shares rose 9 per cent, giving it a market value of about £720mn.

The company is based in Cambridge, the city where the pioneering Acorn Computers was founded in 1978. Acorn spun off its chip design division to form Arm before failing in the 1990s. Raspberry Pi was conceived in the university's computer science department, but has transcended its origins.

Its single-board devices, mostly assembled in the UK by Sony at a factory in Wales, are remarkably cheap: its latest Raspberry Pi 5 basic model costs less than £50 and a microprocessor with its own design of chip is about £5. Having started in schools and home projects, they are popping up in many machines, from electric vehicle chargers to flight information screens.

Raspberry Pi has always been charming: it now has a global following of enthusiasts, including 3.2mn subscribers to its Reddit forum, compared with Nvidia's 1.9mn. Its grassroots approach appeals to a traditional tech culture of hackers and makers, rather than companies such as Apple and Microsoft. As it joins the mainstream, it will be harder to maintain this spirit.

It was born of frustration among Cambridge academics in the early 2000s that there were fewer applications for degrees in computer science than for other courses because it was not taught in schools. One of these was Eben Upton, now its co-founder and chief executive. "We asked, 'Where have all the kids gone?' . . . The idea behind Raspberry Pi was that an object was missing."

Upton had learnt technology at school on a BBC Micro computer made by Acorn (he also bought his own). With Acorn's demise, the BBC Micro was no longer on sale, so they set out to encourage computing skills through the Raspberry Pi Foundation. As well as supporting education, it started a company that launched the first device in 2012.

> It was born of frustration. "We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was an object was missing'

It discovered an unmet need, receiving 100,000 orders on the first day and selling 1mn devices in its first year. The boards were so cheap and versatile that enthusiasts adopted them *en masse*. Arm has invested in Raspberry Pi and Paul Williamson, a senior Arm executive, recalls that his then 13-year-old son used one to install a camera in the family's bird feeding box.

Raspberry Pi soon expanded beyond education and enthusiasts. Hardware engineers started to test devices using its boards, and they later found their way into industrial machines themselves. About 70 per cent of its sales now stem from such uses and 30 per cent from education and hobbyists. "It is emerging as a globally significant company," Williamson said.

Despite its cute image, Raspberry Pi is a sophisticated operation. Upton compares it wryly with "the other computer company named after a fruit" in its degree of vertical integration: it designs much of its own software and hardware, including chips made by TSMC in Taiwan. It is a fraction of Apple's size, but has found a niche.

How will it now fare? One risk is it burns out in a competitive industry, as Acorn did before; it already has fruit-themed rivals, such as Banana Pi of Shenzhen, China. Barriers to entry are low, given many rivals can design chips and contract out assembly. Raspberry Pi has to keep refining while staying cheap.

The second danger is that its charm fades as it becomes more commercial. The foundation gained 43.56mn by selling shares in the June offering, and is now an arm's length investor with a stake of less than 50 per cent. The company has made it wealthier than anyone expected, but the relationship has become more distant.

Still, this is a moment to pause and appreciate an unusual British success. Raspberry Pi has defied the trend of UK-based technology companies that have listed in the US, including Arm. It has also revived Cambridge's history of making hardware, reaching back to the Edsac or electronic delay storage automatic calculator built in 1949 by Maurice Wilkes, then head of its computer laboratory.

One way of measuring its impact is that it has joined the FTSE 250 index. Another is that Cambridge university's undergraduate computer science degree now attracts more than 10 applications per place. Two decades after its future dreamt of a new machine, Raspberry Pi has worked.

john.gapper@ft.com

Contracts & Tenders

PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, (Ground), 1, Rajakhanna Lane, Connaught Place, New Delhi – 110001, India. Tel: +91-11-2341 [illegible]
Website: www.pfcindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)

FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.ntsleconnectivity.com and https://www.pfcindia.com.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 28.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 5th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001. Tel: 91-11-23443890; Fax: 91-11-23443890; e-mail: pfcci.rfp@pfcindia.com. The RFP documents can also be downloaded from https://www.ntsleconnectivity.com and https://www.pfcindia.com, however, in such case interested party can submit Prospective to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders who have obtained purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Responses to RFP (dd/mm/yyyy)
1	Augmentation at Fatehgarh-II PS, Fatehgarh-III PS (Section-II) and Barmer-I PS	18.10.2024	03.12.2024 up to 15:00 hrs (IST)	03.12.2024 up to 15:30 hrs (IST)
2	North-Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	06.12.2024 up to 15:00 hrs (IST)	06.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator: PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)
An Initiative of: Ministry of Power, Government of India
Initiative Partner: Central Electricity Authority

Imagine your advert here

Financial

THE ROYAL BANK OF CANADA
U.S. $300,000,000 Floating Rate
Debentures due 2026
NOTICE IS HEREBY GIVEN that for the Interest Period commencing on 30th September, 2024, the Notes will bear interest at the rate of 6.06875% per annum. The interest payable in 31st December, 2024 against Coupon No. 105 will be U.S. $17,160 per U.S. $1,000 nominal.
Agent Bank: RBC Capital Markets®

Wary on China Overseas investors want reforms alongside Beijing's stimulus before committing more of their money ⊕ MARKETS

Companies & Markets

Tesla delivery numbers shy of Wall Street expectations

- Hopes of a robust rebound damped
- Status as the top EV maker retained

KANA INAGAKI — LONDON
STEPHEN MORRIS — SAN FRANCISCO
GLORIA LI — HONG KONG

Tesla's quarterly vehicle deliveries fell short of market expectations, dampening hopes for a robust rebound on the back of a recovery in Chinese car demand.

The company delivered 462,890 vehicles globally in the three months to September, up 6.4 per cent from a year earlier. The increase was the first this year but missed Wall Street expectations of more than 463,000 vehicles. Some estimates were as high as 469,828 vehicles. Shares were down 4 per cent by early afternoon in New York.

Tesla retained its position as the top electric vehicle maker. This week, China's BYD reported that third-quarter deliveries of EVs totalled 443,426 — a 2.7 per cent rise from the previous year.

> For China rival BYD, the battery-powered cars gain was modest but it boosted plug-in hybrid sales 75.6%

The gain in battery-powered cars was modest for BYD, but the group reported a 75.6 per cent increase in sales of plug-in hybrids after it unveiled its latest hybrid technology in May.

Growth in EV sales has slowed globally but prospects in China, the largest car market, have improved after Beijing in July doubled subsidies offered to consumers who switched from a petrol vehicle to an EV or a plug-in hybrid.

Tesla did not provide a geographical breakdown of its deliveries, but industry data and analyst forecasts show that sales were weak in Europe while deliveries in China were up nearly 25 per cent compared with the previous quarter.

In recent weeks, analysts said there was a growing enthusiasm among investors that a boost in Chinese demand would allow the Austin-based company to beat market expectations.

For much of the past two years, Tesla has wrestled with increased competition from the cheaper offerings of EVs as well as plug-in hybrids from Chinese rivals, forcing it to slash prices on some of its models including lease prices.

Mercedes-Benz and Porsche have also recently warned of lower than expected profits as sales of luxury cars in China have been hit by sluggish consumer spending. Barclays analyst Dan Levy said in a note that the miss in deliveries appeared to have been led by weakness in its premium Model S and X vehicles.

The Cybertruck, an off-roader launched last year that has suffered from manufacturing issues and faulty part recalls, also affected the numbers.

The rising expectations for higher deliveries had also come as Tesla prepared to unveil its first "robotaxis" — a fleet of self-driving taxis — next week in an event Elon Musk described as "one for the history books".

Musk has made a strategic pivot towards autonomous driving, artificial intelligence and robotics, telling investors that these technologies would be Tesla's main revenue sources and drive up its valuation.

However, there are concerns over how and when the company will monetise its autonomous taxis with uncertainties around the technology itself, insurance coverage, vehicle cost, as well as the regulatory environment.

Tom Narayan, an analyst at RBC Capital Markets, said that the focus was now on the new opportunities for Tesla from the "robotaxi" and its self-driving software. "I don't see robotaxis being ubiquitous for several years, if not maybe even decades," Narayan said.

"But the reason why it's so exciting is . . . when it happens, it has the potential to dramatically increase the size of the auto industry."

Bellwether Rockefeller Center seeks $3.5bn debt refinancing in test for office real estate



Rockefeller Center has high occupancy and draws tourists to its ice-skating rink and other amenities — Justin Lane/EPA

ERIC PLATT, JOSHUA OLIVER AND ANTOINE GARA — NEW YORK

New York's Rockefeller Center is finalising plans to raise $3.5bn to refinance debt in a big test of investors' appetite for one of the most beaten-down corners of the property market: massive urban office towers.

Bank of America and Wells Fargo are leading the offering, which is being structured as a single-asset, single-borrower, commercial mortgage-backed security for the Tishman Speyer-owned midtown Manhattan landmark, according to people briefed on the matter.

Although the financing has not been completed, Tishman and would-be lenders believe the capital raise will be successful, according to one of the people involved in the effort. The Canada Pension Plan Investment Board was in talks to participate in the transaction, they said.

The extent of the success or failure of the deal for the iconic art deco complex is being viewed as a bellwether for the midtown office market, with other large asset owners — including Brookfield — watching the transaction ahead of launching their own refinancing efforts for trophy assets.

Rockefeller Center has been able to maintain high occupancy levels and draws throngs of tourists to its ice-skating rink, Radio City Music Hall, annual Christmas tree lighting, restaurants and profitable retail outposts.

Tenants in its 10 office buildings include the investment boutique Lazard, Deloitte, several law firms and other big corporate employers. The 67-storey main tower, known as "30 Rock", is also home to NBC Studios, where the network films the show *Saturday Night Live*.

"If you want to survive as an office in this market, you need a differentiated product and that is what they've done," said one real estate executive following the refinancing. "Rockefeller Center is in an incredible location and it is highly, highly amenitised."

Investors have been wary of financing offices since the Covid-19 pandemic, worried the increase in hybrid work arrangements would slash demand for traditional office space. Although office vacancy rates have risen sharply in the US and Europe, real estate owners are hopeful that top-tier offices are demonstrating robust demand from occupiers.

The 1930s masterpiece built for the Rockefeller family has been managed by Tishman Speyer for decades. The family-led property group bought the complex in 2000 in partnership with the Crown family of Chicago.

Bank of America, Wells Fargo and Canada's pension board declined to comment.

Additional reporting by Sun Yu

LVMH strikes sponsorship deal with Formula One

ADRIENNE KLASA — PARIS

LVMH will become a top sponsor of car racing franchise Formula One as the leading luxury group pushes further into the world of sport.

The agreement would start next year and run for a decade, LVMH said yesterday. The deal is worth just under €100mn a year, according to two people with knowledge of the arrangement.

It will involve several of Bernard Arnault's empire's top brands including Louis Vuitton, the world's biggest luxury brand by sales, drink division Moët Hennessy and watchmaker Tag Heuer.

The deal was led by Frédéric Arnault, the second-youngest of the billionaire patriarch's five children, who was promoted to head LVMH's watchmaking division at the start of the year. He was previously chief executive of Tag Heuer and, like his father, is a graduate of France's top engineering school Ecole Polytechnique.

"The opportunity to scale our commercial arrangements is emblematic of the vision we have for Formula One as the business continues to grow. We look forward to working with Bernard and Frédéric Arnault in the years to come," said Greg Maffei, president and chief executive of F1 owner Liberty Media.

While luxury groups have long been associated with elite sports such as showjumping and tennis, links with more mainstream sports such as basketball and football are becoming frequent.

The French group's foray into F1 follows its high-profile sponsorship of the Paris Olympics, where bars flowed with Moët Hennessy drinks and athletes were awarded medals made by LVMH-owned jeweller Chaumet.

However, a sequence in the opening ceremony centred around monogrammed Louis Vuitton trunks raised some eyebrows as sponsors pushed into previously ad-free spaces in the event.

Earlier this year, LVMH launched a new Louis Vuitton ad campaign featuring tennis stars Roger Federer and Rafael Nadal hiking in the alps. It was a new iteration of a 2022 campaign featuring footballers Cristiano Ronaldo and Lionel Messi playing chess.

F1 has been on a years-long push into new markets and audiences. Since US-based Liberty Media acquired it for $8bn in 2017, the racing calendar has expanded to flashy locales in Miami and Las Vegas, and Netflix docu-series *Drive to Survive* has helped boost viewership.

Contracts & Tenders

PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)

FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of 'Request for Proposal' (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.statecommerce.com and https://www.pfcclindia.com.

The Bidders may access the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 26.09.2024 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18%, from 1st Floor Wing-A, Statesman House, Connaught Place, New Delhi-110001, Tel: 91-11-23443998; Fax: 91-11-23443980; e-mail: pfcci.tb@pfcindia.com. The RFP documents can also be downloaded from https://www.statecommerce.com and https://www.pfcclindia.com, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP (dd/mm/yyyy)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-III PS (Section-II) and Barmer-II PS	16.10.2024	03.12.2024 up to 13:00 hrs (IST)	03.12.2024 up to 13:30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	16.10.2024	04.12.2024 up to 15:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Old Process Coordinator — An Initiative of — Initiative Partner

PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking) — Ministry of Power, Government of India — Central Electricity Authority

Financial

THE ROYAL BANK OF CANADA

U.S. $300,000,000 Floating Rate

Debentures due 2026

NOTICE IS HEREBY GIVEN that for the Interest Period commencing on 30th September, 2024, the Notes will bear interest at the rate of 5.05233% per annum. The interest payable on 31st December, 2024 against Coupon No. 15 will be U.S.$12.50766 per U.S. $1,000 nominal.

Agent Bank
RBC Capital Markets®

Imagine your advert here

Raspberry Pi has charmed its way to a UK computer revival

John Gapper



Raspberry Pi is a quirky enterprise. Started by a foundation to make cheap microcomputers for schools, it expanded into industrial technology before listing in London in June. When it announced its first public financial results last week, its shares rose 9 per cent, giving it a market value of about £720mn.

The company is based in Cambridge, the city where the pioneering Acorn Computers was founded in 1978. Acorn spun off its chip design division to form Arm before failing in the 1990s. Raspberry Pi was conceived in the university's computer science department, but has transcended its origins.

Its single-board devices, mostly assembled in the UK by Sony at a factory in Wales, are remarkably cheap: its latest Raspberry Pi 5 basic model costs less than £50 and a microprocessor with its own design of chip is about £5. Having started in schools and home projects they are popping up in many machines, from electric vehicle chargers to flight information screens.

Raspberry Pi has always been charming: it now has a global following of enthusiasts, including 3.2mn subscribers to its Reddit forum, compared with Nvidia's 1.9mn. Its grassroots approach appeals to a traditional tech culture of hackers and makers, rather than companies such as Apple and Microsoft. As it joins the mainstream, it will be harder to maintain this spirit.

It was born of frustration among Cambridge academics in the early 2000s that there were fewer applicants for degrees in computer science than for other courses because it was not taught in schools. One of these was Eben Upton, now its co-founder and chief executive. "We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was that an object was missing."

Upton had learnt technology at school on a BBC Micro computer made by Acorn (he also bought his own). With Acorn's demise, the BBC Micro was no longer on sale, so they set out to encourage computing skills through the Raspberry Pi Foundation. As well as supporting education, it started a company that launched the first device in 2012.

> It was born of frustration. "We asked, "Where have all the kids gone?" . . . The idea behind Raspberry Pi was an object was missing'

It discovered an unmet need, receiving 100,000 orders on the first day and selling 1mn devices in its first year. The boards were so cheap and versatile that enthusiasts adopted them *en masse*. Arm has invested in Raspberry Pi and Paul Williamson, a senior Arm executive, recalls that his then 13-year-old son used one to install a camera in the family's bird feeding box.

Raspberry Pi soon expanded beyond education and enthusiasts. Hardware engineers started to test devices using its boards, and they later found their way into industrial machines themselves. About 70 per cent of its sales now stem from such uses and 30 per cent from education and hobbyists. "It is emerging as a globally significant company," Williamson said.

Despite its cute image, Raspberry Pi is a sophisticated operation. Upton compares it wryly with "the other computer company named after a fruit" in its degree of vertical integration: it designs much of its own software and hardware, including chips made by TSMC in Taiwan. It is a fraction of Apple's size, but has found a niche.

How will it now fare? One risk is it burns out in a competitive industry, as Acorn did before: it already has fruit-themed rivals, such as Banana Pi of Shenzhen, China. Barriers to entry are low, given many rivals can design chips and contract out assembly. Raspberry Pi has to keep refining while staying cheap.

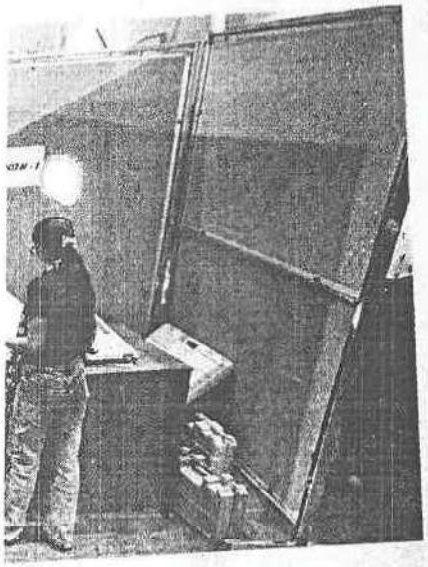
The second danger is that its charm fades as it becomes more commercial. The foundation gained £136mn by selling shares in the June offering, and is now an arm's-length investor with a stake of less than 50 per cent. The company has made it wealthier than anyone expected, but the relationship has become more distant.

Still, this is a moment to pause and appreciate an unusual British success. Raspberry Pi has defied the trend of UK-based technology companies that have listed in the US, including Arm. It has also revived Cambridge's history of making hardware, reaching back to the Edsac or electronic delay storage automatic calculator built in 1949 by Maurice Wilkes, then head of its computer laboratory.

One way of measuring its impact is that it has joined the FTSE 250 index. Another is that Cambridge university's undergraduate computer science degree now attracts more than 10 applications per place. Two decades after its tutors dreamt of a new machine, Raspberry Pi has worked.

john.gapper@ft.com

tion day, actors



iranda House while many wait for their as College on Friday. *Praveen Khanna*

also be tied
il develop-
gh Court had
ng ...otes
, in response
defacement
e property by

ow compared
ht be because
delaying the
ould have de-
nts," Ramjas
ay Arora said.
ege, Principal
ttributed the
ne relative un-
year students
tics. "The first
en on campus
re not attached
yet or familiar
she said.
(21), a student
l College, said,
from the main
it seems to be
for candidates
n come to our
ign."
(22), who stud-
South Campus,
lidates had com-

pletely ignored South Campus... No candidate from ABVP, NSUI or Left came to campaign. People here do not even know the names of the candidates."

Meanwhile, alleging irregularities, NSUI national president Varun Choudhary claimed that voting was delayed at several centres. "Voting began late in several colleges, which raises doubts about the integrity of the election," he said in a statement.

Ravi Pandey, chairman of media for the NSUI, went a step further. "The DU administration is under pressure by the ABVP and BJP, which is resulting in such instances across campus."

However, the university's Chief Election Officer, Satyapal Singh, dismissed these claims. "Voting began everywhere on time. We are noticing a low turnout... we are not sure why."

Ashutosh Singh, ABVP's national media convenor, called the allegations "baseless". "The NSUI's allegations are similar to the Congress blaming the EVMs after losing elections."

(With inputs from Vaishnavi Mishra, an intern with The Indian Express)

Psychotropic drug production: 6 held

New Delhi: Six persons, including the owner of a herbal healthcare firm, were arrested for allegedly manufacturing Alprazolam, a psychotropic substance, in the Delhi-NCR region. The drug was allegedly manufactured at a unit of Biocase Foods and Extracts Pvt Ltd at Hisar in Haryana, which is owned by Dr Naveen Aggarwal – a recipient of the Indian Achiever's Award, the police said.

On March 23, Rajendar Prasad alias RP was arrested from Delhi's Brijpuri and 18 kg of Alprazolam was found on him, police said.

Police found out that RP procured the drugs from Ram Ashish Maurya, a resident of Brijpuri, and was on the way to deliver it to Sakshi Pharmaceuticals owner Anand Kumar. Raids were conducted across Karawal Nagar and Brijpuri, and Maurya, Anand and one Deepak Kumar were arrested.

Another person, Mukesh Kumar, a friend of Deepak, was arrested on August 28 for allowing Deepak to hide in his house and helping him in the manufacturing of the drug. **ENS**

Defamation case: SC to hear plea of Atishi, Kejriwal on Monday

New Delhi: The Supreme Court would hear on Monday a plea of Delhi Chief Minister Atishi and AAP convener Arvind Kejriwal challenging a high court order that refused to quash a defamation case against them over remarks on the alleged deletion of the names of 30 lakh voters belonging to some communities from the electoral rolls.

The SC on Friday took note of the submissions made by senior advocate Sonia Mathur – who appeared on behalf of BJP leader Rajiv Babbar – that her caveat was not mentioned in the office report and she could not file a response as the petition was served to her late Thursday. The court listed the matter for hearing on Monday.

Atishi and Kejriwal have challenged the September 2 order of the Delhi High Court that refused to quash the proceedings against them and other AAP leaders over their remarks about the alleged deletion of voters' names, saying the imputations prima facie lowered BJP's reputation. **PTI**

NATIONAL FERTILIZERS LIMITED
(A Govt. of India Undertaking)
A-11, Sector-24, Noida (UP)-201301
Phone: 0120-2412294, 2412445 Fax: 0120-2412218

Ref No : NFL/MKTG-D/MNF/2024-25/01 Date : 28.09.2024

e-PROCUREMENT NOTICE

Bids are invited from the prospective bidders for procurement of Micro Nutrient Fertilizers for further marketing in various states. For details visit website: https://etenders.gov.in/eprocure/app (e-tendering) & www.nationalfertilizers.com (Homepage). E-Tender No. 2024_NFL_209410_1. Last date of Bid submission date / Opening of Technical Bid document is 15.30 Hrs on 14.10.2024 / 15.30 Hrs on 15.10.2024. Any Corrigendum (s) to this tender shall be published only on our websites.

DGM (Marketing-D)

PFC CONSULTING LIMITED
(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001, (India) Fax: 011-23443990
Website : www.pfcclindia.com

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website https://www.mstcecommerce.com and https://www.pfcclindia.com.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) **from 28.09.2024 to one working day prior to bid submission for the projects mentioned below** on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing-A, Statesman House, Connaught Place, New Delhi-110001, Tel.: 91-11-23443996; Fax: 91-11-23443990; e-mail: pfccl.itp@pfcindia.com. The RFP documents can also be downloaded from https://www.mstcecommerce.com and https://www.pfcclindia.com, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% sepafately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of Response to RFP(dd/mm/yyyy)
1.	Augmentation at Fatehgarh-II PS, Fatehgarh-IV PS (Section-II) and Barmer-I PS	18.10.2024	03.12.2024 up to 15:00 hrs (IST)	03.12.2024 up to 15:30 hrs (IST)
2.	North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A	18.10.2024	04.12.2024 up to 15:00 hrs (IST)	04.12.2024 up to 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator: PFC CONSULTING LTD. (A wholly owned subsidiary of PFC Ltd.) (A Govt. of India Undertaking)
An Initiative of: Ministry of Power, Government of India
Initiative Partner: Central Electricity Authority

shop.symphonylimited.com Symphony

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतः स्वामित्वाधीन सहायक कंपनी)

ANNEXURE P-10

PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No. 04/25-26/ITP-95/RFP **June 06, 2025**

To
Mr. Mohit Mathur, **E-mail: resonia.bd@resonia.com**
Resonia Limited,
DLF Cyber Park, Tower – B,
9th Floor, Udyog Vihar Phase-III,
Sector-20, Gurugram – 122008,
Haryana.

Sub.: Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"- Letter of Intent

Dear Sir,

We refer to:

1. The Request for Proposal document dated September 28, 2024 issued to **'Resonia Limited'** as regards participation in the international competitive bidding process for Transmission Scheme for "**North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**", and as amended till the bid deadline including all correspondence/ clarifications / amendments exchanged between **'Resonia Limited'** and PFC Consulting Limited in regard thereto (hereinafter collectively referred to as the "**Final RFP**");
2. The offer of **'Resonia Limited'** by way of a Technical Bid pursuant to (1) above submitted on February 13, 2025 in response to the Final RFP.
3. The offer of **'Resonia Limited'** by way of Financial Bid-Initial Offer submitted on February 13, 2025 in response to the Final RFP.
4. The offer of **'Resonia Limited'** by way of a Financial Bid-Final Offer Submitted during e-Reverse Auction process concluded on March 05, 2025 in response to the Final RFP.
5. The Technical Bid as at S.No. (2) above and the Financial Bid as at S.No. (3) & (4) above, hereinafter collectively referred to as the "Bid".

This is to inform you that the process of evaluating bids received pursuant to the Final RFP, including the Bid, has been concluded. We are pleased to inform you that your proposal and offer received by way of the "Bid" has been accepted and **'Resonia Limited'** is hereby declared as the Successful Bidder as per Clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the "LoI") is being issued.

This LoI is based on the Final RFP and you are requested to please comply with the following:

a) Acknowledging its issuance and unconditionally accepting its contents and recording "Accepted unconditionally" under the signature of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to PFC Consulting Limited within seven (07) days of the date of issuance of LoI. This LoI is issued to you in duplicate.

b) Completion of various activities as stipulated in the Final RFP including, in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP, within the timelines as prescribed therein.

It may be noted that PFC Consulting Limited has the rights available to them under the Final RFP, including rights under Clause 2.15.5 and Clause 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this LoI are based on the Bid submitted by you as per the Final RFP including the Transmission charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of each transmission element and the Project as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP is annexed herewith as **Schedule-A** and incorporated herein by way of reference.

Yours sincerely,
For PFC Consulting Limited

(Naveen Kumar)
General Manager

Enclosures:

- **Schedule A** – Quoted Transmission Charges and the Scheduled COD of each Transmission Element and the Project submitted in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP

Copy to:

1. **Chairman and Managing Director, Power Finance Corporation Limited**, "Urjanidhi", 1, Barakhamba Lane, Connaught Lane, New Delhi – 110 001
2. **Director (Transmission), Ministry of Power**, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001
3. **Chief Engineer (PSPA-I) and Member Secretary (NCT), Central Electricity Authority**, 3rd Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066
4. **Chief Operating Officer (COO), Central Transmission Utility of India Limited (CTUIL)**, 5th-10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001
5. **Secretary, Central Electricity Regulatory Commission**, 6th, 7th & 8th Floors, World Trade Center, Tower-B, Nauroji Nagar, New Delhi – 110029

SCHEDULE - A

(Page 1 of 2)

1. **Quoted Transmission Charges as per Annexure-21-Format For Financial Bid**

Quoted Transmission Charges: Rs.1894.40 Million Per Annum

1. **Scheduled COD of each transmission Element and the Project as per Format 1 of Annexure-8 of RFP**

S. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from SPV transfer	100%	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
c)	=Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			
d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) –Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line			

सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Office of the Central Processing Centre

Plot No. 6,7, 8, Sector 5, IMT Manesar, Manesar, Haryana, India, 122050

Certificate of Incorporation pursuant to change of name

[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): **U40106HR2022PLC103798**

I hereby certify that the name of the company has been changed from STERLITE GRID 32 LIMITED to RESONIA LIMITED with effect from the date of this certificate and that the company is Company limited by shares.

Company was originally incorporated with the name STERLITE GRID 32 LIMITED

Given under my hand at ROC, CPC this THIRTEENTH day of JANUARY TWO THOUSAND TWENTY FIVE

Document certified by DS CPC 1
<VIVEK.MEENA@GOV.IN>, Validity unknown
Digitally signed
DS CPC 1
Date: 2025.0 19:09:25 IST

Brijesh Kain

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

Central Processing Centre

Note: The corresponding form has been approved by Brijesh Kain, Central Processing Centre, and this order has been digitally signed by the Registrar of Companies through a system generated digital signature under rule 9(2) of the Companies (Registration Offices and Fees) Rules, 2014.

Mailing Address as per record available in Registrar of Companies office:

RESONIA LIMITED

DLF, Cyber Park, Tower-B 9th Floor Udyog Vihar, Phase III, Sector-20, NA, Gurgaon, Gurgaon- 122008, Haryana, India

Note: This certificate of incorporation is in pursuance to change of name by the Company and does not affects the rights and liabilities of stakeholders pursuant to such change of name. It is obligatory on the part of the Company to display the old name for a period of two years along with its new name at all places wherever a Company is required to display its name in terms of Section 12 of the Act. All stakeholders are advised to verify the latest status of the Company and its Directors etc and view public documents of the Company on the website of the Ministry www.mca.gov.in/MCA21

CEA-PS-11-16(13)/1/2024-PSPA-I Division I/46908/2025

सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग
Power System Planning & Appraisal - I Division

सेवा में /To,

Shri. Naveen Phougat,
General Manager, PFCCL,
First Floor, "Urjanidhi", 1, Barakhamba Lane,
Connaught Place, New Delhi-110001.

विषय/Subject: **Constitution of the Bid Evaluation Committees (BECs) for the transmission scheme – being implemented through TBCB -reg.**

संदर्भ / **References:**

(i) Gazette of India (Extraordinary) notification dated 30.08.2024.
(ii) M/s PFCCL letter dated 03.09.2024

महोदय/ Sir,

Ministry of Power vide Gazette notification under reference (i) has notified the transmission scheme "North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)" for implementation through tariff based competitive bidding (TBCB) with M/s PFCCL as the Bid Process Coordinator (BPC).

M/s PFCCL vide its letter under reference (ii) has requested CEA to constitute the Bid Evaluation Committee (BEC) for the above mentioned transmission scheme. Accordingly, CEA vide email dated 05.09.2024 sought nominations from NERPC for constitution of BEC.

Based on the nominations received from NERPC, the Bid Evaluation Committee (BEC) for evaluation of bids for the transmission scheme "North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)" is hereby constituted as given below:

CEA-PS-11-16(13)/1/2024-PSPA-I Division

I/46908/2025

S. No.	Name	Designation
1.	Sh. Rajesh Kumar Singh, General Manager, State Bank of India, Commercial Clients Group Regional Office -II, New Delhi	Chairman
2.	Sh. Anil Kawrani, Director, NERPC	Member
3.	Sh. Balabanta Basumatary, CGM (O&M, CAR), AEGCL	Member
4.	Sh. Rahul Raj, Director, PSPA-II Division, CEA	Member
5.	Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA	Member
6.	Chairman of SPV constituted by PFCCL	Convener -Member

It may be mentioned that the Bid Evaluation Committee for the above mentioned transmission schemes have been constituted in line with Clause 9.8 of the Tariff based Competitive Bidding Guidelines for Transmission Service issued on 10.08.2021.

भवदीय / Yours faithfully,

Signed by Manjari Chaturvedi
Date: 17-02-2025 10:54:26

(मंजरी चतुर्वेदी / Manjari Chaturvedi)

निदेशक/ Director

सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग
Power System Planning & Appraisal - I Division

सेवा में /**To,**

Shri. Naveen Phougat,
General Manager, PFCCL,
First Floor, "Urjanidhi", 1, Barakhamba Lane,
Connaught Place, New Delhi-110001.

विषय/**Subject: Constitution of the Bid Evaluation Committees (BECs) for the transmission scheme – being implemented through TBCB -reg.**

संदर्भ / **References:**

(i) CEA letter no. CEA-PS-11-16(13)/1/2024-PSPA-I Division I/46908/2025 dated 17.02.2025
(ii) M/s PFCCL email dated 07.04.2025

महोदय/ Sir,

CEA vide its letter under reference (i) has constituted the Bid Evaluation Committee (BEC), based on the nominations received from NERPC, for the transmission scheme "North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)" for implementation through tariff based competitive bidding (TBCB) with M/s PFCCL as the Bid Process Coordinator (BPC).

Subsequently, M/s PFCCL vide its email under reference (ii) has requested for revised nomination as earlier nominated member Sh. Anil Kawrani, Director, NERPC will not be available due to voluntary retirement, effective from 14.04.2025. Accordingly, CEA vide email dated 08.04.2025 sought nominations from NERPC for constitution of BEC.

Based on the revised nomination received from NERPC, the Bid Evaluation Committee (BEC) for evaluation of bids of the above mentioned transmission scheme is hereby constituted and is given below:

S. No.	Name	Designation
1.	Sh. Rajesh Kumar Singh, General Manager, State Bank of India, Commercial Clients Group Regional Office -II, New Delhi	Chairman
2.	Sh. V. Muncha, Director, NERPC	Member
3.	Sh. Balabanta Basumatary, CGM (O&M, CAR), AEGCL	Member
4.	Sh. Rahul Raj, Director, PSPA-II Division, CEA	Member
5.	Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA	Member
6.	Chairman of SPV constituted by PFCCL	Convener -Member

It may be mentioned that the Bid Evaluation Committee for the above mentioned transmission schemes have been constituted in line with Clause 9.8 of the Tariff based Competitive Bidding Guidelines for Transmission Service issued on 10.08.2021.

भवदीय / Yours faithfully,
Signed by Ganeswara Rao Jada
Date: 16-04-2025 13:46:12

(गणेश्वर राव जाड़ा / Ganeswara Rao Jada)
निदेशक/ Director

Dated: June 02, 2025

CERTIFICATE BY THE BID EVALUATION COMMITTEE

Sub.: Selection of Successful Bidder as Transmission Service Provider to establish "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A".

It is hereby certified that:

1. The entire bid process has been carried out in accordance with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 and as amended from time to time.

2. Resonia Limited emerged as the Successful Bidder after the conclusion of e-reverse bidding process with the lowest Quoted Transmission Charges of Rs.1,894.40 million per annum.

3. The quoted tariff is higher than the Levelised Tariff calculated based on CERC norms considering the Capital Cost for the Project 'North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A' as assessed by Cost Committee. The quoted tariff discovered through e-reverse bidding process is acceptable.

Name of Committee Member	Signature
Sh. Rajesh Kumar Singh, General Manager, SBI Commercial Client Group Regional office - II New Delhi - Chairman	
Sh. V. Muncha, Director, NERPC - Member	
Sh. Balabanta Basumatary, CGM (O&M, CAR), AEGCL - Member	
Sh. Rahul Raj, Director, PSPA-II Division, CEA - Member	
Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA - Member	
Sh. Neeraj Singh, Chairman, NER EXPANSION TRANSMISSION LIMITED, New Delhi - Convener Member	

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कंम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/25-26/ITP-95/RFP

June 06, 2025

To
Mr. Mohit Mathur,
Resonia Limited,
9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
DLF Cyber Park Gurugram – 122001.

E-mail: resonia.bd@resonia.com

Sub.: Independent Transmission Project (ITP) "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"- Regarding submission of CPG and Due Diligence for transfer of SPV.

Dear Sir,

In line with the provisions of Clause 2.15.2 (a), (b) & (c) of the RFP Document, Contract Performance Guarantee in favour of Nodal Agency i.e. Central Transmission Utility of India Limited (CTUIL) has to be provided, the Share Purchase Agreement has to be executed and the SPV namely, **"NER EXPANSION TRANSMISSION LIMITED"** has to be acquired by the selected bidder i.e., '**Resonia Limited**' along with all its related assets and liabilities for an Acquisition Price.

It may be noted that the SPV is tentatively scheduled to be transferred on 20.06.2025. You are therefore requested to arrange for due diligence process accordingly.

It is intimated that the Acquisition Price of the SPV **"NER EXPANSION TRANSMISSION LIMITED"** is **Rs.12,89,97,283/- (Rupees Twelve Crore Eighty Nine Lakh Ninety Seven Thousand Two Hundred and Eighty Three Only).** The break-up for this amount is given below:

S.No.	Description	Amount (in INR)
1.	PFCCL Management Fees	9,44,67,000
2.	Goods and Service Tax on PFCCL Management Fees	1,70,04,060
3.	Other Administrative Expenses	1,74,26,223
4.	Share Capital	1,00,000
	Total	**12,89,97,283**

The payment of the Acquisition Price may be made as detailed hereunder:

Name	: **PFC Consulting Limited**
PFCCL Goods and Service Tax No.	: 07AAECP6182F1ZC
PFCCL PAN No.	: AAECP6182F
Mode of Payment	: RTGS

Bank Details:

Bank Name	**ICICI Bank, 9A, Phelps Building, Connaught Place, New Delhi**
Name of Account	PFC CONSULTING LIMITED
A/C No.	000705036117
IFSC Code	ICIC0000007

It is requested that TDS may be deducted against the above payment as per I.T. rules. Copy of PAN Card and Cheque of the above bank are enclosed herewith.

You are requested to make the above payment as per the details provided above through RTGS at the earliest.

You are requested to provide the Contract Performance Guarantee as per the details provided in RFP documents, at the earliest.

Further, it is requested to provide the Contract Performance Guarantee (CPG) in favour of Nodal Agency i.e. Central Transmission Utility of India Limited (CTUIL) as per the details provided at **Annexure –A** at the earliest.

With kind regards,

Yours sincerely,

(Naveen Kumar)
General Manager

Annexure –A

Contract Performance Guarantee (CPG)

North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A

S No	Name of Nodal Agency	Address	Amount of CPG
1	Central Transmission Utility of India Limited	5th to 10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001	Rs.11.80 Crore (Rupees Eleven Crore Eighty Lakh Only)

ANNEXURE P-14 (Colly.)

F. No. 24-9/4/2024-PFC (MoP)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg,
New Delhi, Dated: 1st July 2025

To,

The Chief Executive Officer,
PFCCL, First Floor
Urjanidhi, 1, Barakhamba Lane,
New Delhi-110003

Sub. Approval of the Government for transfer of shares held by PFC Consulting Limited (a wholly owned subsidiary of Power Finance Corporation Ltd) in 'NER EXPANSION TRANSMISSION LIMITED' to 'Resonia Limited', the Successful Bidder.

Sir,

I am directed to refer to PFCCL's letter No. 04/25-26/ITP-95/RFP dated 20.06.2025on the above mentioned subject and to convey the approval of the Competent Authority for divesting the shareholding of PFCCL and its nominee in **"'NER EXPANSION TRANSMISSION LIMITED' to 'Resonia Limited', the Successful Bidder**, with a view to facilitate transfer of the SPV to the successful bidder as required under Ministry of Heavy Industries, Department of Public Enterprises O.M. No. 22(1)/2009-GM dated 04.02.2010.

Yours faithfully
Vkumar
1/7/2025
(Vikash Kumar)
Under Secretary to the Govt. of India
Email: vikash.69@gov.in

Copy for information to:

(i) CMD, PFC Limited, New Delhi.

(ii) US (Trans):- With the request that Transmission Wing may write to concerned states informing about the project for extending all possible help in assessment of compensation to be paid to landowners and also expediting forest clearance, if involved in the project.

(iii) PPS to Secretary (Power)/JS (Dist.)/DS (Dist), Ministry of Power.

resonia

Ref: ResoniaLimited/2025-26/BA/NERES-XXV Part-A/RA/03 **Date: 23rd July 2025**

To,

Central Transmission Utility of India Limited,
5th to 9th Floor, Ircon International Tower -1,
Plot No.16, Institutional Area, Sector-32,
Gurgaon, Haryana - 122003

Sub: Submission of Contract Performance Bank Guarantee (CPBG) in favour of Central Transmission Utility of India Limited for "NER EXPANSION TRANSMISSION LIMITED"

Ref: Letter of intent (LOI) no. 04/25-26/ITP-95/RFP dated 6th June 2025 issued by PFC Consulting Limited.

Dear Sir,

This is in reference to your above-referred letters regarding transfer of "NER EXPANSION TRANSMISSION LIMITED". In this regard, please find enclosed the original CPBG in favour of CTUIL for "NER EXPANSION TRANSMISSION LIMITED". The details of CPBG's are as under:

BG No.	1528IBG157753
Date of Issue	17th July 2025
Amount of BG	Rs.11.80 Crore (Rupees Eleven Crore Eighty Lakh Only)
Expiry Date	31st October 2028
Claim Expiry	31st October 2029

Kindly Acknowledge the receipt of the same.

Thanking You,

Yours Faithfully,

For Resonia Limited (formerly known as Sterlite Grid 32 Limited)

RESONIA LIMITED

Mohit Mathur
(Authorized Signatory)

Copy to: **Naveen Kumar, General Manager,** PFC Consulting Limited, 9th Floor, Wing-A, Statesman House, Connaught Place, New Delhi – 110001

Received in Original
23/07/25

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Gurugram/ M G Road

Ref.No: 1528IBG157753

Date: 17/07/2025

To,

CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

5TH TO 9TH FLOOR IRCON INTERNATIONAL TOWER

PLOT NO 16 INSTITUTIONAL AREA

SECTOR 32 HARYANA

122003 INDIA

Dear Sir/Madam,

Sub: Our Guarantee No: 1528IBG157753 dated 17-JUL-25 for Rs: 118000000 /- issued to you on behalf of RESONIA LIMITED , RMZ INFINITY 5TH FLOOR PLOT NO 15 PHASE IV , UDYOG VIHAR GURUGRAM PALAM ROAD ,GURGAON , HARYANA , INDIA , 122015.

We are enclosing herewith the Bank Guarantee 1528IBG157753 dated 17-JUL-25 for Rs: 118000000 /- in your favor on behalf of the aforementioned Applicant. Please acknowledge the same. You are advised, in your own interest, to verify the genuineness of the enclosed bank guarantee by contacting us for the said purpose. If IFSC of your Bank is provided to us, we will also send a confirmation message regarding the issuance of said BG through SFMS.

Thanking you ,

Yours faithfully,

THE FEDERAL BANK LTD. CCSC Gurugram

Bond

Indian-Non Judicial Stamp
Haryana Government

Date : 16/07/2025

Certificate No. G0P2025G4907

GRN No. 136967638

Stamp Duty Paid : ₹ 500
(Rs. Only)

Penalty : ₹ 0
(Rs. Zero Only)

Deponent

Name : The Federal Bank limited
H.No/Floor : Na Sector/Ward : Landmark : Na
City/Village : Gurugram District : Gurugram State : Haryana
Phone : 83******67

Purpose : BANK GUARANTEE **to be submitted at Concerned office**

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website https://egrashry.nic.in

TO:
Central Transmission Utility of India Limited
5th to 9th Floor, Ircon International Tower-1,
Plot No-16, Institutional Area, Sector-32,
Gurugram, Haryana-122003

BG NUMBER: 1528IBG157753
BG DATE: 17-07-2025
BG AMOUNT : Rs 11,80,00,000.00
EXPIRY DATE : 31-10-2028
CLAIM EXPIRY DATE: 31-10-2029

In consideration of the **Resonia Limited Registered Office: RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Gurugram, Haryana-122015** agreeing to undertake the obligations under the Transmission Service Agreement dated **23rd July 2025** and the other RFP Project Documents and the **Nodal Agency** and **PFC Consulting Limited**, agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the **Federal Bank Limited**, having our registered office at Aluva, Kerala-683101 and one of our branches at **The Federal Bank Limited, Corporate Client Service Center, MG Road, Shop No. 5, Sewa Corporate Park, MG Road, Gurugram-122002** (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to **Central Transmission Utility of India Limited** (being the Nodal Agency) at **5th to 9th Floor, Ircon International Tower-1, Plot No-16, Institutional Area, Sector-32, Gurugram, Haryana-122003** forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding **Rs 11,80,00,000.00 (Rupees Eleven Crores Eighty Lacs Only)** on behalf of M/s **Resonia Limited**.

For The Federal Bank Ltd.
Anjali
Sr. Manager
S2 No. 9260

THE FEDERAL BANK LTD. CCSC MG Road, Gurugram

For The Federal Bank Ltd.
MANISH SHARMA
Associate Vice President
S.P. No. 3614

BG NUMBER: 1528IBG157753
BG DATE: 17-07-2025
BG AMOUNT : Rs 11,80,00,000.00

This guarantee shall be valid and binding on the Guarantor Bank up to and including **31-10-2028** and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to **Rs 11,80,00,000.00 (Rupees Eleven Crores Eighty Lacs Only)**. Our Guarantee shall remain in force until **31-10-2028**. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date , ie, till 31-10-2029 of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from **Central Transmission Utility of India Limited** (in its roles as the Nodal Agency), made in any format, raised at the below mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by **Resonia Limited, NER Expansion Transmission Limited**, and/or any other person. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

THIS BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

THIS BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

THIS BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against **NER Expansion Transmission Limited** or **Resonia Limited**, as the case may be, to make any claim against or any demand on **NER Expansion Transmission Limited** or **Resonia Limited**, as the case may be, or to give any notice to **NER Expansion Transmission Limited** or **Resonia Limited**, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against **NER Expansion Transmission Limited** or **Resonia Limited**, as the case may be.

For The Federal Bank Ltd.
Anjali
Sr. Manager
SP No. 9980

THE FEDERAL BANK LTD. CCSC MG Road, Gurugram

For The Federal Bank Ltd.
MANISH SHARMA
Associate Vice President
S.P. No. 3615

BG NUMBER: 1528IBG157753
BG DATE: 17-07-2025
BG AMOUNT : Rs 11,80,00,000.00

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to **Rs 11,80,00,000.00 (Rupees Eleven Crores Eighty Lacs Only)** and it shall remain in force until **31-10-2028**, with an additional claim period of three hundred sixty five (365) days thereafter, till 31-10-2029. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by Resonia Limited. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

Address for service of Claim/Demand

THE FEDERAL BANK LIMITED
TRADE FINANCE DIVISION,
FEDERAL OPERATIONS & SERVICES LTD (FEDSERV),
CARNIVAL INFO PARK, PHASE 1,
THIRD FLOOR, KOCHI,
KERALA - 682042.

In witness where of:

For The Federal Bank Ltd.
PANKAJ AGGARWAL
Senior Manager
SP No. 5575

Signature.....

For The Federal Bank Ltd.
Ruchi Sweta
Asstt. Manager/SP12283

Name: .....

Dated this 17th day of July 2026 at Gurugram, Haryana

For The Federal Bank Ltd.
Anjali
Sr. Manager
SP No. 9960

THE FEDERAL BANK LTD. CCSC MG Road, Gurugram

For The Federal Bank Ltd.
MANISH SHARMA
Associate Vice President
S.P. No.: 3618

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. 04/24-25/ITP-95/RfP

July 23, 2025

To,
Mr. Mohit Mathur,
M/s Resonia Limited,
9th Floor, Block B, Sector 20, Udyog Vihar,
Phase 3,DLF Cyber Park Gurugram – 122008

E-mail: resonia.bd@resonia.com

Sub: Independent Transmission Project "North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A"– Regarding Extension of LoI.

Dear Sir,

This is with reference to Letter of Intent (LoI) issued on June 06, 2025 for establishment of subject transmission scheme. The Clause No. 2.15.2 of the RFP document stipulates that within ten (10) days of the issue of the LoI the selected bidder shall complete all the activities including the acquisition of SPV.

As the SPV is being transferred on July 23, 2025, the last date for completion of various activities under Clause No. 2.15.2 of the RFP document is extended from June 16, 2025 (10 days from LoI) to July 23, 2025.

Thanking you,

Yours faithfully,

(Naveen Phougat)
General Manager

Dated 23rd July, 2025

SHARE PURCHASE AGREEMENT

BETWEEN

PFC CONSULTING LIMITED

AND

NER EXPANSION TRANSMISSION LIMITED

AND

RESONIA LIMITED

(FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹200

e-Stamp

Certificate No.	:	IN-DL22630423464811X
Certificate Issued Date	:	22-Jul-2025 05:20 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL716803801717454858891X
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	200 (Two Hundred only)

सत्यमेव जयते

₹200

Please write or type below this line IN-DL22630423464811X

This Stamp Paper Forms Part of enclosed Share Purchase Agreement executed between **PFC CONSULTING LIMITED**, **NER EXPANSION TRANSMISSION LIMITED** and **RESONIA LIMITED (FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)**

PFC CONSULTING LIMITED NEW DELHI

NER EXPANSION TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹500

e-Stamp

Certificate No.	:	IN-DL22638664959149X
Certificate Issued Date	:	22-Jul-2025 05:30 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL71680380180541539516X
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	500 (Five Hundred only)

सत्यमेव जयते

₹500 ₹500 ₹500 ₹500 ₹500

₹500

Please write or type below this line IN-DL22638664959149X

This Stamp Paper Forms Part of enclosed Share Purchase Agreement executed between **PFC CONSULTING LIMITED**, **NER EXPANSION TRANSMISSION LIMITED** and **RESONIA LIMITED (FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)**

PFC CONSULTING LIMITED NEW DELHI

NER EXPANSION TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

22-Jul-2025 05:30 PM 22-Jul-2025 05:30 PM 22-Jul-2025 05:30 PM

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹500

e-Stamp

Certificate No.	:	IN-DL22638277573758X
Certificate Issued Date	:	22-Jul-2025 05:29 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL71680380181483238860X
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	500 (Five Hundred only)

सत्यमेव जयते

₹500 ₹500 ₹500 ₹500 ₹500

₹500

Please write or type below this line IN-DL22638277573758X

This Stamp Paper Forms Part of enclosed Share Purchase Agreement executed between **PFC CONSULTING LIMITED**, **NER EXPANSION TRANSMISSION LIMITED** and **RESONIA LIMITED (FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)**

PFC CONSULTING LIMITED NEW DELHI

NER EXPANSION TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

SHCIL PHDVC
PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED PFC CONSULTING LIMITED
22-Jul-2025 05:29 PM 22-Jul-2025 05:29 PM 22-Jul-2025 05:29 PM

SHARE PURCHASE AGREEMENT

This **SHARE PURCHASE AGREEMENT** ('Agreement') made on 23rd day of July, 2025 at New Delhi by and between:

PFC CONSULTING LIMITED (a wholly owned subsidiary of Power Finance Corporation Ltd.), a company incorporated under the Companies Act, 1956, with CIN No. U74140DL2008GOI175858, having its registered office at First Floor, "Urjanidhi",1 Barakhamba Lane, Connaught Place, New Delhi 110001, (hereinafter referred to as "**PFCCL**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **FIRST PART**;

AND

NER EXPANSION TRANSMISSION LIMITED, a company incorporated under the Companies Act, 2013, with CIN No. U42201DL2024GOI439654 having its registered office at First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi 110001, (hereinafter referred to as **"Company"** which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **SECOND PART**;

AND

RESONIA LIMITED (formerly known as Sterlite Grid 32 Limited), a company incorporated under the Companies Act, 2013 with CIN No. U40106HR2022PLC103798 having its registered office RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Gurugram, Palam Road, Gurgaon, Haryana, 122015 (hereinafter referred to as **"Selected Bidder"** which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **THIRD PART.**

WHEREAS:

A. Ministry of Power (MoP) vide Gazette Notification No. **CG-DL-E-31082024-256815 dated 30.08.2024** has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **"North-Eastern Region Expansion Scheme-XXV Part-A (NERES-XXV Part-A)"** through tariff based competitive bidding process (hereinafter referred to as the "Project")

B. In accordance with the Bidding Guidelines, PFCCL had initiated a Bid Process through issuance of RFP documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents (as defined hereinafter).

C. PFCCL has incorporated the Company and PFCCL along with the Nominees hold One hundred per cent (100 %) of total issued and paid up equity share capital of the Company.

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED RESONIA

D. PFCCL has initiated the development of the Project and has obtained survey report, certain clearances, consents and permits as specified in the RFP regarding the Project.

E. Pursuant to the said Bid Process, Resonia Limited (formerly known as Sterlite Grid 32 Limited) has been identified as the Selected Bidder vide Letter of Intent dated 06.06.2025 issued by the PFCCL in favor of the Selected Bidder.

F. As envisaged in the RFP, the Shares Seller (as defined hereinafter) has agreed to sell the Sale Shares (as defined hereinafter) to the Selected Bidder and the Selected Bidder has agreed to purchase the Sale Shares from the Shares Seller, subject to and on the terms and conditions set forth in this Agreement.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HEREBY AGREE AS FOLLOWS:

1. DEFINITIONS

1.1 Capitalised terms in this Agreement, unless defined in this Agreement shall, in so far as the context admits, have the same meaning in this Agreement as has been ascribed to them in the Transmission Service Agreement.

1.2 Additionally, the following terms shall have the meaning hereinafter respectively assigned to them herein below:

(i) **"Acquisition Price"** shall mean **Rs. 12,89,97,283/- (Rupees Twelve Crores Eighty Nine Lakh Ninety Seven Thousand Two Hundred Eighty Three only)**, which is the aggregate consideration payable by the Selected Bidder towards purchase of the **Sale Shares at par** along with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;

(ii) **"Agreement"** or **"the Agreement"** or **"this Agreement"** shall mean this Share Purchase Agreement and shall include the recitals and/or annexures attached hereto, and the contracts, certificates, disclosures and other documents to be executed and delivered pursuant hereto, if any, and any amendments made to this Agreement by Parties in writing;

(iii) **"Bid Process"** shall mean the competitive bidding process initiated by the BPC, by issuance of RFP Documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents;

(iv) **"Board"** shall mean the board of directors of the Company

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

(v) **"Closing Date"** shall mean a mutually agreed date between the Parties falling within the period as mentioned in Clause 2.15.2 of RFP or on failure of such mutual agreement between the Parties shall be the date falling on the last date of such period;

(vi) **"CTU"** or **"Central Transmission Utility of India Limited"** shall have same meaning as defined in the Electricity Act, 2003;

(vii) **"Encumbrance"** shall mean any mortgage, pledge, lien, charge, security assignment, hypothecation, trust, encumbrance or any other agreement having the effect of creating security interest;

(viii) **"Letter of Intent"** shall have the meaning ascribed thereto under the RFP;

(ix) **"Nominees"** shall mean the Persons, who are named in Annexure A, holding the Sale Shares as nominees of PFCCL.

(x) "**Party**" shall mean PFCCL, Company and the Selected Bidder, referred to individually, and "**Parties**" shall mean PFCCL, Company and the Selected Bidder collectively referred to, as relevant;

(xi) "**Person**" shall include an individual, an association, a corporation, a partnership, a joint venture, a trust, an unincorporated organisation, a joint stock company or other entity or organisation, including a government or political subdivision, or an agency or instrumentality thereof, and/or any other legal entity;

(xii) **"RFP Project Documents"** shall mean the following documents, referred to collectively:

a) RFP
b) Transmission Services Agreement;
c) this Agreement; and
d) Any other agreement(s) as may be required.

(xiii) "**Representations and Warranties**" shall mean the representations and warranties mentioned in **Clause 4** hereto;

(xiv) **"Sale Shares"** shall mean **10,000 (Ten Thousand)** Shares, representing 100 percent of the total issued, subscribed and fully paid-up equity share capital of the Company held by the Shares Seller and Nominees as more particularly described in Annexure A attached hereto;

(xv) **"Shares"** shall mean the fully paid-up equity shares of Company, of face value Rs. 10 each;

(xvi) "**Shares Seller**" shall mean PFCCL;

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NETL NEW DELHI

RESONIA LIMITED RESONIA

(xvii) "**Transmission Services Agreement**" or "**TSA**" means the agreement titled 'Transmission Services Agreement' dated 23rd July, 2025 entered into between Central Transmission Utility of India Limited (CTUIL) and the NER Expansion Transmission Limited (TSP) pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project to Central Transmission Utility of India Limited on a commercial basis, as may be amended from time to time;

(xviii) **Transmission Service Provider" or "TSP"** shall mean NER Expansion Transmission Limited which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder.

1.3 Interpretation Clause

Unless the context otherwise requires, the provisions of the TSA relating to the interpretation of the TSA shall apply to this Agreement as if they were set out in full in this Agreement and to this end are incorporated herein by reference.

2. TRANSFER OF SHARES

2.1 Subject to the terms and conditions of this Agreement, the Shares Seller agrees to sell and transfer to the Selected Bidder and the Selected Bidder hereby agrees to purchase from the Shares Seller, the Sale Shares of the Company free from Encumbrances with rights and benefits attached thereto in consideration of the Acquisition Price and the covenants, undertakings and the agreements of the Selected Bidder contained in this Agreement.

2.2 The Shares Seller hereby undertakes to cause the Nominees to transfer part of the Sale Shares held by them as Nominees of the Shares Seller to the Selected Bidder and execute any documents required to deliver good title to the Sale Shares to the Selected Bidder.

3. CLOSING

3.1 Prior to the Closing Date, the Selected Bidder shall provide to the Shares Seller, valid share transfer forms ("Share Transfer Forms") duly stamped with requisite amount of stamp duty payable on the transfer of Sale Shares.

3.2 On the Closing Date, the Shares Seller shall hand over to the Selected Bidder or its authorised representative, the original share certificates representing the Sale Shares ("Sale Share Certificates") along with the Share Transfer Forms duly executed by the Shares Seller and the Nominees in favour of the Selected Bidder, simultaneously against the Selected Bidder handing over to the Shares Seller demand drafts drawn in favour of the Shares Seller for the Acquisition Price payable to it.

Provided that prior to the handing over of the Sale Share Certificates to the Selected Bidder as mentioned above, the Selected Bidder shall provide satisfactory evidence to PFCCL that on or before the Closing Date, the Selected Bidder has furnished the Performance Bank Guarantee to Central Transmission Utility of India Limitedand is in a position to comply with all other requirements of Clause 2.15.2 of the RFP.

3.3 The Selected Bidder shall immediately upon receiving the Sale Share Certificates and the Share Transfer Forms, duly execute the Share Transfer Forms and duly lodge the Share Transfer Forms and the Sale Share Certificates with the Company. The Selected Bidder may also propose the names of its nominees to be appointed on the Board of the Company and the address within the jurisdiction of the Registrar of Companies NCT of Delhi and Haryana, which would be the new registered office of the Company. The Company shall, upon receipt of the said documents from the Selected Bidder, do the following:

(i) on the Closing Date convene a meeting of the Board, wherein the Board shall pass the following necessary resolutions:

(a) approving the transfer of the Shares constituting the Sale Shares from the Shares Seller and the Nominees to the name of the **Resonia Limited** (formerly known as Sterlite Grid 32 Limited) **and its nominees as detailed hereunder and transfer of all assets and liabilities of the Company** as on **Closing Date;**

Sl. No.	Name of Transferor	Name of transferee	No. of Equity Shares
1.	PFC Consulting Limited	Resonia Limited (formerly known as Sterlite Grid 32 Limited) ("Resonia")	9,400
2.	Mr. Rakesh Mohan	Mr. Ashok Ganesan (as nominee of Resonia)	100
3.	Mr. Neeraj Singh	Ms. Shilpi Rungta (as nominee of Resonia)	100
4.	Mr. Sanjay Kumar Nayak	Ms. Upasna (as nominee of Resonia)	100
5.	Mr. Sachin Shukla	Ms. Nikita Gupta (as nominee of Resonia)	100
6.	Mr. Naveen Kumar	Mr. Pradeep Sand (as nominee of Resonia)	100
7.	Mr. Rishab Jain	Mr. Pratik Modi (as nominee of Resonia)	100
	Total		**10,000**

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

(b) approving Resonia Limited (formerly known as Sterlite Grid 32 Limited) and its nominees as a member of the Company and entering the name of the Resonia Limited (formerly known as Sterlite Grid 32 Limited) and its nominees in the register of members.

(c) changing the address of the registered office of the Company to YC Co Working Space, 3rd Floor, Plot No. 94 Dwarka Sec. 13, Opp. Metro, Near Radisson Blu, South West Delhi, New Delhi-110075, the new address, within the jurisdiction of the Registrar of Companies NCT of Delhi and Haryana, as provided by the Selected Bidder.

(d) appointing the Directors of the Selected Bidder on the Board and accepting the resignations of the other existing Directors on the Board and the Chair of the meeting which was taken by one of the existing Directors shall be vacated and appointment of a new Chairman who shall be one of the newly appointed Director, for the rest of the meeting.

Mr. Shri Prakash Singh (DIN: 10929893),

Mr. Sandip Maity (DIN: 10862280) and

Ms. Upma Meena (DIN: 10240282)

Pursuant to the acceptance of resignation of the existing Directors and appointment of new Chairman, the newly constituted Board of Directors shall hold the meeting and pass the following resolution:

(e) terminating all the authorizations granted regarding the business and/or operations of the Company or the operations of the bank accounts of the Company, with prospective effect; and

(f) acknowledging and accepting the terms and conditions as contained in the executed copies of the RFP Project Documents and to abide by the provisions contained therein.

(ii) Enter the name of the **Resonia Limited** (formerly known as Sterlite Grid 32 Limited) **and its nominees** as the legal and beneficial owner of the Sale Shares, free of all Encumbrances, in the register of members of the Company;

(iii) Make the necessary endorsements on the Sale Share Certificates, indicating the name of the **Resonia Limited** (formerly known as Sterlite Grid 32 Limited) **and its nominees** as the legal and beneficial owner of the Sale Shares evidenced there under;

PFC CONSULTING LIMITED NEW DELHI PFCCL

NERPC EXPANSION TRANSMISSION LTD. NETL NEW DELHI

RESONIA LIMITED RESONIA

(iv) Return the original Sale Share Certificates, duly endorsed in the name of the **Resonia Limited** (formerly known as Sterlite Grid 32 Limited) **and its nominees** , to **Resonia Limited** (formerly known as Sterlite Grid 32 Limited) **and its nominees,** as the case may be or its authorized representative;

(v) Handover all the statutory registers and records, if any, of the Company to **Resonia Limited** (formerly known as Sterlite Grid 32 Limited), the Selected Bidder.

(vi) Handover certified true copies of the Board resolution passed by the Company as per (i)(a) to (i)(e) of Clause 3.3 (i) to Central Transmission Utility of India Limited.

3.4 The Parties to this Agreement agree to take all measures that may be required to ensure that all the events contemplated in the **Clauses 3.1 to 3.3** above on the Closing Date are completed on the same day.

Notwithstanding the provisions of **Clause 3.3** hereto, all proceedings to be taken and all documents to be executed and delivered by the Parties at the Closing Date shall be deemed to have been taken and executed simultaneously and no proceedings shall be deemed to have been taken nor documents executed or delivered until all have been taken, executed and delivered.

3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the equity shareholding of the Company, by the Selected Bidder as per Clause 3.3, (a) the authority, rights and obligations of the PFCCL/Company in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by Central Transmission Utility of India Limited themselves or through their any other authorized representative(s), (b) all rights and obligations of the PFCCL/Company shall be of the Selected Bidder and (c) any decisions taken by the PFCCL/Company prior to the date of its acquisition by the Selected Bidder shall continue to be binding on the Selected Bidder. The Parties hereby agree that this provision shall survive the termination of this Agreement.

3.6 This agreement shall be effective from the date of its signing by the Parties and shall remain in force until all the obligations of the respective Parties under Clause 3.3 hereto are fulfilled.

4. REPRESENTATIONS AND WARRANTIES

4.1 The Selected Bidder hereby represents and warrants to the Shares Seller that:

4.1.1 The Selected Bidder has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein, and this Agreement has been duly and validly executed and delivered by the Selected Bidder and constitutes its legal, valid and binding obligations, enforceable against it in accordance with its terms;

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

4.1.2 The execution, delivery and performance of this Agreement by the Selected Bidder (i) will not violate or contravene any provision of the Memorandum of Association or Articles of the Selected Bidder, (ii) will not violate or contravene any law, statute, rule, regulation, licensing requirement, order, writ, injunction or decree of any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority by which the Selected Bidder are bound or by which any of its and/or their properties or assets are bound, and (iii) except to the extent that the same have been duly and properly completed or obtained, will not require any filing with, or permit, consent or approval of or license from, or the giving of any notice to, any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority, joint venture party, or any other entity or person whatsoever; and

4.1.3 The Selected Bidder is not restricted in any manner whatsoever, including without limitation, on account of any judicial or governmental order, action or proceeding, or any contractual obligation assumed by the Selected Bidder, from purchasing the Sale Shares from the Shares Seller in the manner provided for in this Agreement.

4.2 The Shares Seller hereby represents and warrants to the Selected Bidder that;

4.2.1 The Shares Seller and the Nominees are the legal and beneficial owners of the Sale Shares, free and clear of any Encumbrance and the delivery to the Selected Bidder of the Sale Shares pursuant to the provisions of this Agreement will transfer to the Selected Bidder a good title to the Sale Shares.

4.2.2 The Shares Seller has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein. The execution, delivery and performance of this Agreement will not violate the Memorandum and Articles of Association of the Shares Seller or contravene any contract by which it is bound.

4.2.3 The Shares Seller has obtained requisite authorizations to sell and transfer the Sale Shares to the Selected Bidder. The Shares Seller also represent that it is not prevented from transferring and selling the Sale Shares. Also, to the best of its knowledge, the Sale Shares are not the subject matter of any claim or pending proceeding or threatened by any legal proceeding made by any third party.

4.3 Except as specified in Clause 4.2, above the Shares Seller shall not be deemed to have, made any representation or warranty whatsoever, whether express or implied, in relation to the Sale Shares or Company, including but not limited to any implied warranty or representation as to the business or affairs of the Company.

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

4.4 The Representations and Warranties are given as at the date of this Agreement except that where a Representation and Warranty is expressed to be made as at another date, the Representation and Warranty is given with respect to that date only.

4.5 Each Representation and Warranty is to be construed independently of the others and is not limited by reference to any other Warranty. The Representations, Warranties and undertakings contained in this **Clause 4** hereto or in any document delivered pursuant to or in connection with this Agreement are continuing in nature and shall survive the Closing Date for one (1) year.

4.6 The Parties represent to each other that all Representations and Warranties provided herein by the respective Party shall be true as of Closing Date.

5. OBLIGATIONS OF THE SELECTED BIDDER

The Selected Bidder agrees that the Shares Seller shall not be liable in any manner, nor shall it assume any responsibility or liability whatsoever, in respect of the business of the Company and its operations or activities, arising after Closing Date, to any Person or any authority, central, state, local or municipal or otherwise and the same shall be the sole responsibility of the Selected Bidder.

6. MISCELLANEOUS

6.1 NOTICES

a) All notices to be given under this Agreement shall be in writing and in the English language.

b) All notices must be delivered personally or by registered or speed post or by recognised courier to the addresses below:

Selected Bidder (Lead Member in case of Consortium)	**Resonia Limited** (formerly known as Sterlite Grid 32 Limited) RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Gurugram, Palam Road, Haryana, 122015
Name of the Holding Company of the SPV	**PFC Consulting Limited** First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi- 110001
Company (Before Closing Date)	**Project In-charge** **NER Expansion Transmission Limited** First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi- 110001

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION NETL NEW DELHI

RESONIA LIMITED RESONIA

Company (After Closing Date)	**NER Expansion Transmission Limited** YC Co Working Space, 3rd Floor, Plot No. 94 Dwarka Sec. 13, Opp. Metro, Near Radisson Blu, South West Delhi, New Delhi-110075

c) Any Party may by notice of at least fifteen (15) days to the other Parties change the address and / or addresses to which such notices and communications to it are to be delivered or mailed.

6.2 RESOLUTION OF DISPUTES

6.2.1 If any dispute arises between the Parties, in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement ("Dispute"), the disputing Parties hereto shall endeavour to settle such Dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within 60 days from the date of the Dispute.

6.2.2 If the Parties are unable to amicably settle the Dispute in accordance with Clause 6.2.1 within the period specified therein, any of the Parties shall be entitled to within 30 days after expiry of the aforesaid period, refer the Dispute to the Company Secretary of PFCCL and Chief Executive/ Managing Director of the Selected Bidder for resolution of the said Dispute. The attempt to bring about such resolution shall be considered to have failed if not resolved within 30 days from the date of receipt of a written notification in this regard.

6.2.3 In the event the Dispute is not settled in accordance with Clause 6.2.2 above, any Party to the Dispute shall be entitled to serve a notice invoking this Clause and making a reference to a sole arbitrator. If the Parties to the Dispute cannot agree as to the appointment of the sole arbitrator within 30 days of receipt of the notice of the Party making the reference, then the Shares Seller along with the Company shall appoint one arbitrator and the Selected Bidder shall appoint one arbitrator and the two arbitrators, so appointed shall appoint a third arbitrator. However, after the Closing Date, in such an event the Shares Seller shall appoint one arbitrator and the Selected Bidder along with the Company shall appoint one arbitrator and the two arbitrators, so appointed shall appoint the third arbitrator.

6.2.4 The place of the arbitration shall be New Delhi. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996.

6.2.5 The proceedings of arbitration shall be in English language.

6.2.6 The arbitrator's award shall be substantiated in writing. The arbitrators shall also decide on the costs of the arbitration proceedings. In case the arbitrators have not

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

decided on the costs of the arbitration proceedings, each Party to the Dispute shall bear its own costs, in relation to the arbitration proceedings.

6.3 AUTHORISED PERSON

For the purposes of this Agreement, the Selected Bidder is severally represented by **Mr. Arun Sharma, Whole- time Director & CEO, Ms. Upasna Company Secretary and/or Mr. Amarendranath Tatimakula Reddy, and/or Mr. Ashok Ganesan, and/or, and/or Mr. Prashant Sinha, and/or Mr. Tushar Chhabra, and/or Mr. Chandan Dutt, the Authorized Representatives,** pursuant to an authorization granted to the above mentioned authorized representatives through necessary Board resolutions. Further, the above mentioned authorized representatives are also severally authorized by such resolutions to take any decision, which may be required to be taken, do all acts and execute all documents, which are or may be required by the Selected Bidder for the proper and effective fulfillment of the rights and obligations under this Agreement. Any action taken or document executed by the above mentioned authorized representatives, shall be deemed to be acts done or documents executed by the Selected Bidder and shall be binding on the Selected Bidder.

6.4 RESERVATION OF RIGHTS

No forbearance, indulgence or relaxation or inaction by any Party at any time to require performance of any of the provisions of this Agreement shall in any way affect, diminish or prejudice the right of such Party to require performance of that provision, and any waiver or acquiescence by any Party of any breach of any of the provisions of this Agreement shall not be construed as a waiver or acquiescence of any continuing or succeeding breach of such provisions, a waiver of any right under or arising out of this Agreement or acquiescence to or recognition of rights other than that expressly stipulated in this Agreement.

6.5 CUMULATIVE RIGHTS

All remedies of either Party under this Agreement whether provided herein or conferred by statute, civil law, common law, custom or trade usage, are cumulative and not alternative and may be enforced successively or concurrently.

6.6 PARTIAL INVALIDITY

If any provision of this Agreement or the application thereof to any person or circumstance shall be invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. Any invalid or unenforceable provision of this Agreement shall be replaced with a provision, which is valid and enforceable and most nearly reflects the original intent of the unenforceable provision.

PFC CONSULTING LIMITED NEW DELHI PFCCL

NEW DELHI NETL

RESONIA LIMITED RESONIA

6.7 TERMINATION

If (i) the Closing does not occur on the Closing Date for any reason whatsoever, or (ii) the Letter of Intent is withdrawn or terminated for any reason, or (iii) due to termination of the TSA by Central Transmission Utility of India Limited in accordance with Article 3.3.2 or Article 13 of the TSA thereof, PFCCL shall have a right to terminate this Agreement forthwith by giving a written notice to the other Parties hereto.

6.8 AMENDMENTS

No modification or amendment of this Agreement and no waiver of any of the terms or conditions hereof shall be valid or binding unless made in writing and duly executed by all the Parties.

6.9 ASSIGNMENT

This Agreement and the rights and liabilities hereunder shall bind and inure to the benefit of the respective successors of the Parties hereto, but no Party hereto shall assign or transfer its rights and liabilities hereunder to any other Person without the prior written consent of the other Parties, which will not be unreasonably withheld.

6.10 ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the Parties with respect to the subject matter herein and supersedes and cancels any prior oral or written agreement, representation, understanding, arrangement, communication or expression of intent relating to the subject matter of this Agreement.

6.11 COSTS

Each of the Parties hereto shall pay their own costs and expenses relating to the negotiation, preparation and execution of this Agreement and the transactions contemplated by this Agreement.

The Selected Bidder shall be liable to bear and pay the stamp duty and other costs in respect of this Agreement and the Share Transfer Forms.

6.12 RELATIONSHIP

None of the provisions of this Agreement shall be deemed to constitute a partnership between the Parties hereto and no Party shall have any authority to bind the other Party otherwise than under this Agreement or shall be deemed to be the agent of the other in any way.

6.13 GOVERNING LAW AND JURISDICTION

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

This Agreement shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts of Delhi.

6.14 COUNTERPARTS

This Agreement may be executed in counterparts by the Parties and each fully executed counterpart shall be deemed to be original.

6.15 CONFIDENTIALITY

The Parties undertake to hold in confidence and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

(a) to their professional advisors;
(b) to their officers, employees, agents or representatives, who need to have access to such information for the proper performance of their activities;
(c) disclosures required under Law;
without the prior written consent of the other Parties.

Provided that Central Transmission Utility of India Limited and PFCCL may at any time, disclose the terms and conditions of transactions contemplated hereby to any person, to the extent stipulated under the law or the Bidding Guidelines.

6.16 INDEMNIFICATION

- The Parties hereby agree that transfer of Sale Shares to the Selected Bidder shall vest all the rights, privileges, licenses, responsibilities, liabilities and other obligations pertaining to the Company in the Selected Bidder.

- The Selected Bidder hereby agrees that the Selected Bidder shall not be entitled to any claims or initiate any legal proceedings, by itself or through the Transmission Service Provider against the Share Sellers, its directors, officers, employees and the subscribers including the members of any committees appointed by them in respect of any actions or decisions taken by any of them up to the Closing Date in furtherance of the Project referred to in recital A of this Agreement.

- Further, the Selected Bidder hereby indemnifies and holds harmless at all times the Share Seller against all losses, damages, charges, and expenses which the Share Seller may sustain or incur towards contractual obligations with respect to the contracts awarded by the Share Seller or any other liability arising with regard to any action/ activity undertaken by the Share Seller for and on behalf of the Company in furtherance of the Project referred to above or otherwise concerning the Company. All such actions shall be defended by the Selected Bidder either itself or through the TSP at its own cost.

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

- The Parties hereby agree that the provisions of this clause shall survive the termination of this Agreement.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE DULY EXECUTED AND DELIVERED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN

SIGNED AND DELIVERED
BY THE WITHIN NAMED "**PFCCL**" **PFC CONSULTING LIMITED**
BY THE HAND OF **SHRI SACHIN ARORA, COMPANY SECRETARY**

PFC CONSULTING LIMITED NEW DELHI

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON 20TH JUNE, 2025

IN THE PRESENCE OF: Gyanesh Mishra, EA, PFCCL
WITNESS:
NAME, SIGNATURE, DESIGNATION AND ADDRESS:

SIGNED AND DELIVERED
BY THE WITHIN NAMED **"NER EXPANSION TRANSMISSION LIMITED"**
BY THE HAND OF **SHRI NEERAJ SINGH, DIRECTOR**

NER EXPANSION TRANSMISSION LTD. NEW DELHI

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON 06TH JUNE, 2025

IN THE PRESENCE OF: Naveen Phogat GM-PFCCL
WITNESS:
NAME, SIGNATURE, DESIGNATION AND ADDRESS:

SIGNED AND DELIVERED
BY THE WITHIN NAMED **"RESONIA LIMITED (formerly known as Sterlite Grid 32 Limited)"**
BY THE HAND OF **SHRI AMARENDRANATH TATIMAKULA REDDY, AUTHORISED REPRESENTATIVE**

RESONIA LIMITED

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON JUNE 11, 2025

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

C Dutt

IN THE PRESENCE OF:

WITNESS: Chandan Dutt (AVP)

NAME, SIGNATURE, DESIGNATION AND ADDRESS:

PFC CONSULTING LIMITED NEW DELHI PFCCL

NER EXPANSION TRANSMISSION LTD. NEW DELHI NETL

RESONIA LIMITED RESONIA

ANNEXURE A

DESCRIPTION OF THE SALE SHARES

S. NO.	NAME OF THE SHAREHOLDER	NUMBER OF EQUITY SHARES HELD	PERCENTAGE OF THE TOTAL PAID UP EQUITY CAPITAL
1.	PFC Consulting Limited	9400	94 %
2.	Shri Rakesh Mohan*	100	1 %
3.	Shri Neeraj Singh*	100	1 %
4.	Shri Sanjay Kumar Nayak*	100	1 %
5.	Shri Sachin Shukla*	100	1 %
6.	Shri Naveen Kumar*	100	1 %
7.	Shri Rishab Jain*	100	1 %
	Total	**10,000**	**100%**

Note: * Nominee of PFC Consulting Limited

PFC CONSULTING LIMITED NEW DELHI

PFCCL

NER EXPANSION TRANSMISSION LTD NEW DELHI

NETL

RESONIA LIMITED

RESONIA

TRANSMISSION SERVICE AGREEMENT

FOR

DEVELOPMENT AND OPERATION OF INTER-STATE TRANSMISSION SYSTEM

FOR TRANSMISSION OF ELECTRICITY THROUGH TARIFF BASED COMPETITIVE BIDDING FOR

North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A

BETWEEN THE

CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

(NODAL AGENCY)

AND

NER EXPANSION TRANSMISSION LIMITED

23rd July, 2025

CONTENTS

1. Definitions and Interpretations 5
2. Effectiveness and Term of Agreement 16
3. Conditions Subsequent 18
4. Development of the Project 22
5. Construction of the Project 25
6. Connection and commissioning of the Project 29
7. Operation and Maintenance of the Project 33
8. Availability of the project 34
9. Insurances 35
10. Billing And Payment of Transmission Charges 36
11. Force Majeure 37
12. Change in Law 41
13. Events of Default and Termination 43
14. Liability and Indemnification 47
15. Assignments and Charges 52
16. Governing Law and Dispute Resolution 54
17. Representation and Warranties 55
18. Independent Engineer 57
19. Miscellaneous Provisions 59

Bond

Indian-Non Judicial Stamp
Haryana Government

455
Date :07/07/2025

Certificate No. G0G2025G4218

GRN No. 136527854

Stamp Duty Paid : ₹ 101
(Rs. Only)

Penalty :₹ 0
(Rs. Zero Only)

Deponent

Name: Central Transmission utility of India ltd
H.No/Floor : 2 Sector/Ward : 29 Landmark : Na
City/Village : Gurugram District : Gurugram State : Haryana
Phone : 98******10

Purpose : ARTICLE 5 GENERAL AGREEMENT **to be submitted at Concerned office**

THIS TRANSMISISON SERVICE AGREEMENT (hereinafter referred to as "TSA" or "Agreement" or "the Agreement" or "this Agreement") is made on the 23 [Insert day] of July [Insert month] of Two Thousand and Twenty Five.

BETWEEN:

The **Central Transmission Utility of India Limited,** a company incorporated under the Companies Act, 2013, having its registered office at **Plot No.2, Sector 29, Gurugram, Haryana 122001, India** & Correspondence address at **Floor No. 5-10, Tower 1, Plot No. 16, IRCON International Tower, Institutional Area, Sector 32, Gurugram, Haryana – 122001, India** (hereinafter referred to as "Nodal Agency/CTU" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns) as party of the one part;

AND

NER EXPANSION TRANSMISSION LIMITED incorporated under the Companies Act, 1956/ Companies Act, 2013 (as the case may be), having its registered office at **1st Floor, Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi-110001** (herein after referred to as "Transmission Service Provider" or "TSP" or "ISTS Licensee", which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the other part;

("Nodal Agency" and "TSP" are individually referred to as "Party" and collectively as the "Parties")

Bond

Indian-Non Judicial Stamp
Haryana Government

Date : 16/07/2025

Certificate No. G0P2025G3183

GRN No. 136535236

Stamp Duty Paid : ₹ 500
(Rs. Only)

Penalty : ₹ 0
(Rs. Zero Only)

Deponent

Name : Central Transmission utility of India ltd

H.No/Floor : Na Sector/Ward : Na Landmark : Na

City/Village : Gurugram District : Gurugram State : Haryana

Phone : 99******95

Purpose : ARTICLE 5 GENERAL AGREEMENT **to be submitted at Others**

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website https://egrashry.nic.in

This stamp paper forms integral part of Transmission Service Agreement dated 23.07.2025

NER EXPANSION TRANSMISSION LIMITED

AND WHEREAS:

A) In accordance with the Bidding Guidelines, the Bid Process Coordinator (hereinafter referred to as BPC) had initiated a competitive e-reverse bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in Schedule 1 (hereinafter referred to as the Project)

B) Pursuant to the said e-reverse bidding process, the BPC has identified the Successful Bidder, who will be responsible to set up the Project on build, own, operate and transfer basis to provide Transmission Service in accordance with the terms of this Agreement and the Transmission License.

C) The Selected Bidder have submitted the Contract Performance Guarantee and acquired one hundred percent (100%) of the equity shareholding of **NER EXPANSION TRANSMISSION LIMITED,** along with all its related assets and liabilities in terms of the provisions of the Share Purchase Agreement.

D) The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on build, own, operate and transfer basis.

E) The TSP has further agreed to make an application to the Commission for the adoption of the Transmission Charges under Section 63 of the Electricity Act, 2003, along with a certification from the Bid Evaluation Committee in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India.

F) The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.

G) The TSP agrees to the terms and conditions laid down under Sharing Regulations, for making available the ISTS and charge the Transmission Charges in accordance with the terms and conditions of Sharing Regulations.

H) The billing, collection and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.

I) The terms and conditions stipulated in the Transmission License issued by the Commission to the TSP shall be applicable to this Agreement and the TSP agrees to comply with these terms and conditions. In case of inconsistency between the Transmission License terms & conditions and the conditions of this Agreement, the conditions stipulated in the Transmission License granted by the Commission shall prevail.

NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND MUTUAL AGREEMENTS, COVENANTS AND CONDITIONS SET FORTH HEREIN, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

ARTICLE: 1

1 DEFINITIONS AND INTERPRETATIONS

1.1 Definitions:

1.1.1 The words / expressions used in this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under including those issued / framed by the Commission (as defined hereunder), as amended or re-enacted from time to time or the General Clauses Act, failing which it shall bear its ordinary English meaning.

The words/expressions when used in this Agreement shall have the respective meanings as specified below:

"Acquisition Price" shall have the same meaning as defined in the Share Purchase Agreement;

"Act" or **"Electricity Act"** or **"Electricity Act 2003"** shall mean the Electricity Act, 2003 and any amendments made to the same or any succeeding enactment thereof;

"Affiliate" shall mean a company that either directly or indirectly

(i) controls or

(ii) is controlled by or

(iii) is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and "**control**" means ownership by one entity of at least twenty six percent (26%) of the voting rights of the other entity;

"Availability" in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, attached herewith in Schedule 6;

"Bid" shall mean technical bid and financial bid submitted by the Bidder, in response to the RFP, in accordance with the terms and conditions of the RFP;

"Bid Deadline" shall mean the last date and time for submission of the Bid in response to RFP, as specified in the RFP;

"Bidding Company" shall refer to such single company that has made a Response to RFP for the Project;

"Bidding Consortium / Consortium" shall refer to a group of companies that has collectively made a Response to RFP for the Project;

"Bid Documents" or **"Bidding Documents"** shall mean the RFP, along with all attachments thereto or clarifications thereof;

"Bidding Guidelines" shall mean the "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act as amended from time to time;

"Bid Process Coordinator" or **"BPC"** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

"Bill" shall mean any bill raised by the CTU on the DICs to recover the Transmission Charges pursuant to the Sharing Regulations;

"Business Day" shall mean a day other than Sunday or a statutory holiday, on which the banks remain open for business in the State in which the Nodal Agency's registered office is located and the concerned TSP are located;

"CEA" shall mean the Central Electricity Authority constituted under Section -70 of the Electricity Act;

"Change in law" shall have the meaning ascribed thereto in Article 12;

"Commercial Operation Date" or **"COD"** shall mean the date as per Article 6.2;

"Commission" or **"CERC"** shall mean the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Electricity Act, 2003 or its successors and assigns;

"Competent Court of Law" shall mean the Supreme Court or any High Court, or any tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to the Project;

"Connection Agreement" shall mean the agreement between the CTU or STU or any other concerned parties and the TSP, setting out the terms relating to the connection of the Project to the Inter-connection Facilities and use of the Inter State Transmission System as per the provisions of the IEGC, as the case may be;

"Consultation Period" shall mean the period of sixty (60) days or such longer period as the Parties may agree, commencing from the date of issue of a TSP's Preliminary Notice or a Nodal Agency's Preliminary Termination Notice, as provided in Article 13

of this Agreement, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;

"Consents, Clearances and Permits" shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and operation of Project including without any limitation for the construction, ownership, operation and maintenance of the Transmission Lines and/or sub-stations;

"Construction Period" shall mean the period from (and including) the Effective Date of the Transmission Service Agreement up to (but not including) the COD of the Element of the Project in relation to an Element and up to (but not including) the COD of the Project in relation to the Project;

"Contractors" shall mean the engineering, procurement, construction, operation & maintenance contractors, surveyors, advisors, consultants, designers, suppliers to the TSP and each of their respective sub-contractors (and each of their respective successors and permitted assigns) in their respective capacities as such;

"Contract Performance Guarantee" shall mean the irrevocable unconditional bank guarantee, submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8, in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee furnished by the TSP under this Agreement;

"Contract Year", for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that the last Contract Year shall end on the last day of the term of the TSA;

"CTU" or **"Central Transmission Utility"** shall have same meaning as defined in the Electricity Act, 2003;

"Day" shall mean a day starting at 0000 hours and ending at 2400 hours;

"D/C" shall mean Double Circuit;

"Designated ISTS Customers" or **"DICs"** shall have the meaning as ascribed in the Sharing Regulations;

"Dispute" shall mean any dispute or difference of any kind between the Parties, in connection with or arising out of this Agreement including any issue on the interpretation and scope of the terms of this Agreement as provided in Article 16;

"Effective Date" for the purposes of this Agreement, shall have the same meaning as per Article 2.1 of this Agreement;

"Electrical Inspector" shall mean a person appointed as such by the Government under sub-section (1) of Section 162 of the Electricity Act 2003 and also includes Chief Electrical Inspector;

"Electricity Rules 2005" shall mean the rules framed pursuant to the Electricity Act 2003 and as amended from time to time;

"Element" shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS, which will be owned, operated and maintained by the concerned ISTS Licensee, and which has a separate Scheduled COD as per Schedule 2 of this Agreement and has a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of this Agreement;

"Event of Default" shall mean the events as defined in Article 13 of this Agreement;

"Expiry Date" shall be the date which is thirty five (35) years from the COD of the Project;

"Financial Closure" shall mean the first Business Day on which funds are made available to the TSP pursuant to the Financing Agreements;

"Financially Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in the RFP;

"Financing Agreements" shall mean the agreements pursuant to which the TSP is to finance the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of the Designated ISTS Customers / Nodal Agency;

"Financial Year" shall mean a period of twelve months at midnight Indian Standard Time (IST) between 1st April & 31st March;

"Force Majeure" and **"Force Majeure Event"** shall have the meaning assigned thereto in Article 11;

"GOI" shall mean Government of India;

"Grid Code" / "IEGC" shall mean the Grid Code specified by the Central Commission under Clause (h) of sub-section (1) of Section 79 of the Electricity Act;

"Independent Engineer" shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects.

"Indian Governmental Instrumentality" shall mean Government of India, Government of any State in India or any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any State Government or both, any political sub-division of any of them including any court or Commission or tribunal or judicial or quasi-judicial body in India but excluding the CTU, TSP and the Designated ISTS Customers;

"Insurances" shall mean the insurance cover to be obtained and maintained by the TSP in accordance with Article 9 of this Agreement;

"Interconnection Facilities" shall mean the facilities as may be set up for transmission of electricity through the use of the Project, on either one or both side of generating station's / CTU's / STU's / ISTS Licensee's / Designated ISTS Customer's substations (as the case may be) which shall include, without limitation, all other transmission lines, gantries, sub-stations and associated equipments not forming part of the Project;

"ISTS Licensee" shall be the TSP under this Agreement, consequent to having been awarded a Transmission License by the CERC and shall be referred to as the TSP or the ISTS Licensee, as the context may require in this Agreement;

"Law" or "Laws" in relation to this Agreement, shall mean all laws including electricity laws in force in India and any statute, ordinance, rule, regulation, notification, order or code, or any interpretation of any of them by an Indian Governmental Instrumentality having force of law and shall include all rules, regulations, decisions and orders of the Commission;

"Lead Member of the Bidding Consortium" or "Lead Member" shall mean a company who commits at least 26% equity stake in the Project, meets the technical requirement as specified in the RFP and so designated by other Member(s) in Bidding Consortium;

"Lenders" means the banks, financial institutions, multilateral funding agencies, non banking financial companies registered with the Reserve Bank of India (RBI), insurance companies registered with the Insurance Regulatory & Development Authority (IRDA), pension funds regulated by the Pension Fund Regulatory & Development Authority (PFRDA),mutual funds registered with Securities & Exchange Board of India (SEBI), etc., including their successors and assigns, who have agreed on or before COD of the Project to provide the TSP with the debt financing described in the capital structure schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned;

NER EXPANSION TRANSMISSION LIMITED

Provided that, such assignment or transfer shall not relieve the TSP of its obligations to the Nodal Agency under this Agreement in any manner and shall also does not lead to an increase in the liability of the Nodal Agency;

"Lenders Representative" shall mean the person notified by the Lender(s) in writing as being the representative of the Lender(s) or the Security Trustee and such person may from time to time be replaced by the Lender(s) pursuant to the Financing Agreements by written notice to the TSP;

"Letter of Intent" or **"LOI"** shall have the same meaning as in the RFP;

"Member in a Bidding Consortium / Member" shall mean each company in the Bidding Consortium;

"Month" shall mean a period of thirty (30) days from (and excluding) the date of the event;

"Monthly Transmission Charges" for any Element of the Project, after COD of the Element till COD of the Project, and for the Project after COD of the Project, shall mean the amount of Transmission Charges as specified in Schedule 5 of this Agreement multiplied by no. of days in the relevant month and divided by no. of days in the year;

"National Load Despatch Centre" shall mean the centre established as per sub-section (1) of Section 26 of the Electricity Act 2003;

"**Nodal Agency**" shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

"Notification" shall mean any notification, issued in the Gazette of India;

"Operating Period" for any Element of the Project shall mean the period from (and including) the COD of such Element of the Project, up to (and including) the Expiry Date and for the Project, shall mean the period from (and including) the COD of the Project, up to (and including) the Expiry Date;

"Parent Company" shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

"Preliminary Termination Notice" shall mean a Nodal Agency's Preliminary Termination Notice as defined in Article 13 of this Agreement;

"Project" shall mean **North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**, as detailed in Schedule 1 of this Agreement;

"**Project Assets**" shall mean all physical and other assets relating to and forming part of the Project including:

(a) rights over the Site for substations, ROW for transmission lines;

(b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Sub-stations, software, tower and sub-stations designs etc;

(c) project facilities situated on the Site;

(d) all rights of the TSP under the project agreements;

(e) financial assets, such as receivables, security deposits etc;

(f) insurance proceeds; and

(g) Applicable Permits and authorisations relating to or in respect of the Transmission System;"

"Project Execution Plan" shall mean the plan referred to in Article 3.1.3(c) hereof;

"Prudent Utility Practices" shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric transmission utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of the Project and which practices, methods and standards shall be adjusted as necessary, to take account of:

(i) operation, repair and maintenance guidelines given by the manufacturers to be incorporated in the Project,

(ii) the requirements of Law, and

(iii) the physical conditions at the Site;

(iv) the safety of operating personnel and human beings;

"Rated Voltage" shall mean voltage at which the Transmission System is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with the Central Transmission Utility;

"Rebate" shall have the meaning as ascribed to in Article 10.3 of this Agreement;

"RFP" shall mean Request For Proposal dated 28.09.2024 along with all schedules, annexures and RFP Project Documents attached thereto, issued by the BPC for tariff based competitive bidding process for selection of Bidder as TSP to execute the Project, including any modifications, amendments or alterations thereto;

"RFP Project Documents" shall mean the following documents to be entered into in respect of the Project, by the Parties to the respective agreements:

a. Transmission Service Agreement,

b. Share Purchase Agreement,

c. Agreement(s) required under Sharing Regulations and

d. Any other agreement as may be required;

"RLDC" shall mean the relevant Regional Load Dispatch Centre as defined in the Electricity Act, 2003, in the region(s) in which the Project is located;

"RPC" shall mean the relevant Regional Power Committee established by the Government of India for the specific Region(s) in accordance with the Electricity Act, 2003 for facilitating integrated operation of the Power System in that Region;

"Scheduled COD" in relation to an Element(s) shall mean the date(s) as mentioned in Schedule 2 as against such Element(s) and in relation to the Project, shall mean the date as mentioned in Schedule 2 as against such Project, subject to the provisions of Article 4.4 of this Agreement, or such date as may be mutually agreed among the Parties;

"Scheduled Outage" shall mean the final outage plan as approved by the RPC as per the provisions of the Grid Code;

"Selected Bid" shall mean the technical Bid and the Final Offer of the Selected Bidder submitted during e-reverse bidding, which shall be downloaded and attached in Schedule 7 on or prior to the Effective Date;

"Share Purchase Agreement" shall mean the agreement amongst **PFC Consulting Limited (PFCCL)**, NER EXPANSION TRANSMISSION LIMITED and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the NER EXPANSION TRANSMISSION LIMITED for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

"Sharing Regulations" shall mean the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and as amended from time to time;

"Site" in relation to a substation, switching station or HVDC terminal or inverter station, shall mean the land and other places upon which such station / terminal is to be established;

"SLDC" shall mean the State Load Despatch Centre established as per sub-section (1) of Section 31 of the Electricity Act 2003;

"STU" or **"State Transmission Utility"** shall be the Board or the Government company, specified as such by the State Government under sub-section (1) of Section 39 of the Electricity Act 2003;

"Successful Bidder" or **"Selected Bidder"** shall mean the Bidder selected pursuant to the RFP and who has to acquire one hundred percent (100%) equity shares of NER EXPANSION TRANSMISSION LIMITED, along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the TSA and other RFP Project Documents;

"TSP's Preliminary Notice" shall mean a notice issued by the TSP in pursuant to the provisions of Article 13.3 of this Agreement;

"Target Availability" shall have the meaning as ascribed hereto in Article 0 of this Agreement;

"Technically Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in RFP;

"Termination Notice" shall mean a Nodal Agency's Termination Notice given by the Nodal Agency to the TSP pursuant to the provisions of Articles 3.3.1, 3.3.4, 4.4.2, 5.8, 13.2 and 13.3 of this Agreement for the termination of this Agreement;

"Term of Agreement" for the purposes of this Agreement shall have the meaning ascribed thereto in Article 2.2 of this Agreement;

"Transmission Charges" shall mean the Final Offer of the Selected Bidder during the e-reverse bidding and adopted by the Commission, payable to the TSP as per Sharing Regulations;

"Transmission License" shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act;

"Transmission Service" shall mean making the Project available as per the terms and conditions of this Agreement and Sharing Regulations;

NER EXPANSION TRANSMISSION LIMITED

"Unscheduled Outage" shall mean an interruption resulting in reduction of the Availability of the Element(s) / Project (as the case may be) that is not a result of a Scheduled Outage or a Force Majeure Event.

"Ultimate Parent Company" shall mean an entity which owns at least twenty six **percent** (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity;

1.2 **Interpretation:**

Save where the contrary is indicated, any reference in this Agreement to:

"Agreement" shall be construed as including a reference to its Schedules, Appendices and Annexures;

"Rupee", "Rupees" and **"Rs."** shall denote lawful currency of India;

"crore" shall mean a reference to ten million (10,000,000) and a **"lakh"** shall mean a reference to one tenth of a million (1,00,000);

"encumbrance" shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;

"holding company" of a company or corporation shall be construed as a reference to any company or corporation of which the other company or corporation is a subsidiary;

"indebtedness" shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

"person" shall have the meaning as defined in Section 2 (49) of the Act;

"subsidiary" of a company or corporation (the holding company) shall be construed as a reference to any company or corporation:

(i) which is controlled, directly or indirectly, by the holding company, or

(ii) more than half of the issued share capital of which is beneficially owned, directly or indirectly, by the holding company, or

(iii) which is a subsidiary of another subsidiary of the holding company,

for these purposes, a company or corporation shall be treated as being controlled by another if that other company or corporation is able to direct its affairs and/or to control the composition of its board of directors or equivalent body;

"winding-up", **"dissolution"**, **"insolvency"**, or **"reorganization"** in the context of a company or corporation shall have the same meaning as defined in the Companies Act, 1956/ Companies Act, 2013 (as the case may be).

1.2.1 Words importing the singular shall include the plural and vice versa.

1.2.2 This Agreement itself or any other agreement or document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented.

1.2.3 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time.

1.2.4 A time of day shall, save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.

1.2.5 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part.

1.2.6 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement.

1.2.7 All interest payable under this Agreement shall accrue from day to day and be calculated on the basis of a year of three hundred and sixty five (365) days.

1.2.8 The words "hereof" or "herein", if and when used in this Agreement shall mean a reference to this Agreement.

1.2.9 The contents of Schedule 7 shall be referred to for ascertaining accuracy and correctness of the representations made by the Selected Bidder in Article 17.2.1 hereof.

ARTICLE: 2

2 EFFECTIVENESS AND TERM OF AGREEMENT

2.1 Effective Date:

This Agreement shall be effective from later of the dates of the following events:

The Selected Bidder, on behalf of the TSP, has provided the Contract Performance Guarantee, as per terms of Article 3.1 of this Agreement; and

The Selected Bidder has acquired for the Acquisition Price, one hundred percent (100%) of the equity shareholding of PFC Consulting Limited (PFCCL) in NER EXPANSION TRANSMISSION LIMITED along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement. and

The Agreement is executed and delivered by the Parties;

2.2 Term and Termination:

2.2.1 Subject to Article 2.2.3 and Article 2.4, this Agreement shall continue to be effective in relation to the Project until the Expiry Date, when it shall automatically terminate.

2.2.2 Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the Central Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto.

2.2.3 This Agreement shall terminate before the Expiry Date in accordance with Article 13 or Article 3.3.2 or Article 3.3.4.

2.3 Conditions prior to the expiry of the Transmission License

2.3.1 In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.

2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.

2.4 Survival:

The expiry or termination of this Agreement shall not affect any accrued rights, obligations/ roles and liabilities of the Parties under this Agreement, including the right to receive liquidated damages as per the terms of this Agreement, nor shall it effect the survival of any continuing obligations/ roles for which this Agreement provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Articles 3.3.3, 3.3.5, Article 9.3 (Application of Insurance Proceeds), Article 11 (Force Majeure), Article 13 (Events of Default and Termination), Article 14 (Liability & Indemnification), Article 16 (Governing Law & Dispute Resolution), Article 19 (Miscellaneous).

2.5 Applicability of the provisions of this Agreement

2.5.1 For the purpose of Availability, Target Availability and the computation of Availability, Incentive, Penalty, the provisions provided in this Agreement shall apply and any future modifications in the relevant Rules and Regulations shall not be applicable for this Project.

2.5.2 For the purposes of this Agreement for ISTS systems developed under the tariff based competitive bidding framework, the provisions relating to the definitions (Availability and COD), Article 3 (Contract Performance Guarantee and Conditions Subsequent), Article 5 (Construction of the Project), Article 6 (Connection and Commissioning of the Project), Article 8 (Target Availability and calculation of Availability), Article 11 (Force Majeure), Article 12 (Change in Law), Article 13 (Event of Default), Article 14 (Indemnification), Article 15 (Assignment and Charges), Articles 16.1, 16.2 and 16.4 (Governing Laws and Dispute Resolution) and Article 17 (representation and warranties of the ISTS Licensee) of this agreement shall supersede the corresponding provisions under Sharing Regulations.

ARTICLE: 3

3 CONDITIONS SUBSEQUENT

3.1 Satisfaction of conditions subsequent by the TSP

3.1.1 Within ten (10) days from the date of issue of Letter of Intent, the Selected Bidder, shall:

a. Provide the Contract Performance Guarantee, and
b. Acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of NER EXPANSION TRANSMISSION LIMITED from **PFC Consulting Limited (PFCCL)**, who shall sell to the Selected Bidder, the equity shareholding of NER EXPANSION TRANSMISSION LIMITED, along with all its related assets and liabilities.
c. Execute this Agreement;

The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of the Electricity Act.

The Selected Bidder, on behalf of the TSP, will provide to the **Central Transmission Utility of India Limited** (being the Nodal Agency) the Contract Performance Guarantee for an amount of Rs. 11.80 Crore (Rupees Eleven Crore Eighty Lakh only)

3.1.2 The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project. In case the validity of the Contract Performance Guarantee is expiring before the validity specified in this Article, the TSP shall, at least thirty (30) days before the expiry of the Contract Performance Guarantee, replace the Contract Performance Guarantee with another Contract Performance Guarantee or extend the validity of the existing Contract Performance Guarantee until the validity period specified in this Article.

3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date (except for c) below), unless such completion is affected due to any Force Majeure Event, or if any of the activities is specifically waived in writing by the Nodal Agency:

a. To obtain the Transmission License for the Project from the Commission;

b. To obtain the order for adoption of Transmission Charges by the Commission, as required under Section 63 of the Electricity Act 2003;

c. To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution

Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. Also, an approved copy each of Manufacturing Quality Plan (MQP) and Field Quality Plan (FQP) would be submitted to Independent Engineer & Nodal Agency in the same time period. The TSP's Project Execution Plan should be in conformity with the Scheduled COD as specified in Schedule 2 of this Agreement, and shall bring out clearly the organization structure, time plan and methodology for executing the Project, award of major contracts, designing, engineering, procurement, shipping, construction, testing and commissioning to commercial operation;

d. To submit to the Nodal Agency, CEA & Independent Engineer a detailed bar (GANTT) chart of the Project outlining each activity (taking longer than one Month), linkages as well as durations;

e. To submit to the Nodal Agency, CEA & Independent Engineer detailed specifications of conductor meeting the functional specifications specified in RFP;

f. To achieve Financial Closure;

g. To provide an irrevocable letter to the Lenders duly accepting and acknowledging the rights provided to the Lenders under the provisions of Article 15.3 of this Agreement and all other RFP Project Documents;

h. To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed; and

i. To sign the Agreement(s) required, if any, under Sharing Regulations.

3.2 Recognition of Lenders' Rights by the Nodal Agency

3.2.1 The Nodal Agency hereby accepts and acknowledges the rights provided to the Lenders as per Article 15.3 of this Agreement and all other RFP Project Documents.

3.3 Consequences of non-fulfilment of conditions subsequent

3.3.1 If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to **Central Transmission Utility of India Limited (being the Nodal Agency)** additional Contract Performance Guarantee of **Rs. 1.18 Crore (Rupees One Crore Eighteen Lakh Only)** within two (2) Business Days of expiry of every such Month. Such additional Contract Performance Guarantee shall be provided to **Central Transmission Utility of India Limited (being the Nodal Agency)** in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all the provisions of this Agreement shall be

construed accordingly. **Central Transmission Utility of India Limited (being the Nodal Agency)** shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.

3.3.2 Subject to Article 3.3.4, if:

(i) the fulfilment of any of the conditions specified in Article 3.1.3 is delayed beyond nine (9) Months from the Effective Date and the TSP fails to furnish additional Contract Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof; or

(ii) the TSP furnishes additional Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof but fails to fulfil the conditions specified in Article 3.1.3 within a period of twelve (12) months from the Effective Date,

the Nodal Agency shall have the right to terminate this Agreement, by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

3.3.3 If the Nodal Agency elects to terminate this Agreement as per the provisions of Article 3.3.1, the TSP shall be liable to pay to the Nodal Agency an amount of Rupees 11.80 Crore (Rs. Eleven Crore Eighty Lakh) only as liquidated damages. The Nodal Agency shall be entitled to recover this amount of damages by invoking the Contract Performance Guarantee to the extent of liquidated damages, which shall be required by the Nodal Agency, and the balance shall be returned to TSP, if any.

It is clarified for removal of doubt that this Article shall survive the termination of this Agreement.

3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.

Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3 shall

lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

3.3.5 Upon termination of this Agreement as per Articles 3.3.1 and 3.3.4, the Nodal Agency may take steps to bid out the Project again.

3.3.6 The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.

3.4 Progress Reports

The TSP shall notify the Nodal Agency and CEA in writing at least once a Month on the progress made in satisfying the conditions subsequent in Articles 3.1.3.

ARTICLE: 4

4 DEVELOPMENT OF THE PROJECT

4.1 TSP's obligations in development of the Project:

Subject to the terms and conditions of this Agreement, the TSP at its own cost and expense shall observe, comply with, perform, undertake and be responsible:

a. for procuring and maintaining in full force and effect all Consents, Clearances and Permits, required in accordance with Law for development of the Project;
b. for financing, constructing, owning and commissioning each of the Element of the Project for the scope of work set out in Schedule 1 of this Agreement in accordance with:

i. the Electricity Act and the Rules made thereof;

ii. the Grid Code;

iii. the CEA Regulations applicable, and as amended from time to time, for Transmission Lines and sub-stations:

- the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007;
- Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010;
- Central Electricity Authority (Grid Standard) Regulations, 2010;
- Central Electricity Authority (Safety requirements for construction, operation and maintenance of Electrical Plants and Electrical Lines) Regulation, 2011;
- Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulation, 2010;
- Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020.

iv. Safety/ security Guidelines laid down by the Government;

v. Prudent Utility Practices, relevant Indian Standards and the Law;

not later than the Scheduled COD as per Schedule 2 of this Agreement;

c. for entering into a Connection Agreement with the concerned parties in accordance with the Grid Code.
d. for owning the Project throughout the term of this Agreement free and clear of any encumbrances except those expressly permitted under Article 15 of this Agreement;
e. to co-ordinate and liaise with concerned agencies and provide on a timely basis relevant information with regard to the specifications of the Project that may be required for interconnecting the Project with the Interconnection Facilities;
f. for providing all assistance to the Arbitrators as they may require for the performance of their duties and responsibilities;

g. to provide to the Nodal Agency and CEA, on a monthly basis, progress reports with regard to the Project and its execution (in accordance with prescribed form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities;

h. to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;

i. to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide Orders No. P45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard (Procuring Entity as defined in above orders shall deemed to have included Selected Bidder and/ or TSP).

   Also, to comply with Department of Expenditure, Ministry of Finance vide OM No. F.7/10/2021-PPD (1) dated 23.02.2023 as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India;

j. to submit to Nodal Agency information in the prescribed format [To be devised by Nodal Agency] for ensuring compliance to Article 4.1 i) above.

k. to comply with all its obligations undertaken in this Agreement.

4.2 Roles of the Nodal Agency in implementation of the Project:

4.2.1 Subject to the terms and conditions of this Agreement, the Nodal Agency shall be the holder and administrator of this Agreement and shall inter alia:

a. appoint an Independent Engineer within 90 days of the Effective Date

b. provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project;

c. coordinate among TSP and upstream/downstream entities in respect of Interconnection Facilities; and

d. monitor the implementation of the Agreement and take appropriate action for breach thereof including revocation of guarantees, cancellation of Agreement, blacklisting etc

e. provide all assistance to the Arbitrators as required for the performance of their duties and responsibilities; and

f. perform any other responsibility (ies) as specified in this Agreement.

4.3 Time for Commencement and Completion:

a. The TSP shall take all necessary steps to commence work on the Project from the Effective Date of the Agreement and shall achieve Scheduled COD of the Project in accordance with the time schedule specified in Schedule 2 of this Agreement;

b. The COD of each Element of the Project shall occur no later than the Scheduled COD or within such extended time to which the TSP shall be entitled under Article 4.4 hereto.

4.4 Extension of time:

4.4.1 In the event that the TSP is unable to perform its obligations for the reasons solely attributable to the Nodal Agency, the Scheduled COD shall be extended, by a 'day to day' basis, subject to the provisions of Article 13.

4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event. Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

4.4.3 If the Parties have not agreed, within thirty (30) days after the affected Party's performance has ceased to be affected by the relevant circumstance, on how long the Scheduled COD should be deferred by, any Party may raise the Dispute to be resolved in accordance with Article 16.

4.5 Metering Arrangements:

4.5.1 The TSP shall comply with all the provisions of the IEGC and the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time, with regard to the metering arrangements for the Project. The TSP shall fully cooperate with the CTU / STU / RLDC and extend all necessary assistance in taking meter readings.

4.6 Interconnection Facilities:

4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.

4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.

ARTICLE: 5

5 CONSTRUCTION OF THE PROJECT

5.1 TSP's Construction Responsibilities:

5.1.1 The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement.

5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).

5.1.3 The TSP shall be responsible for obtaining all Consents, Clearances and Permits related but not limited to road / rail / river / canal / power line / crossings, Power and Telecom Coordination Committee (PTCC), defence, civil aviation, right of way / way-leaves and environmental & forest clearances from relevant authorities required for developing, financing, constructing, maintaining/ renewing all such Consents, Clearances and Permits in order to carry out its obligations under this Agreement in general and shall furnish to the Nodal Agency such copy/ies of each Consents, Clearances and Permits, on demand. Nodal Agency shall provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project.

5.1.4 The TSP shall be responsible for:

a) acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.

b) final selection of Site including its geo-technical investigation

c) survey and geo-technical investigation of line route in order to determine the final route of the Transmission Lines;

d) seeking access to the Site and other places where the Project is being executed, at its own risk and costs, including payment of any crop, tree compensation or any other compensation as may be required.

5.1.5 In case the Project involves any resettlement and rehabilitation, the resettlement and rehabilitation package will be implemented by the State Government authorities, for which the costs is to be borne by the TSP and no changes would be allowed in the Transmission Charges on account of any variation in the resettlement and rehabilitation cost. The TSP shall provide assistance on best endeavour basis, in implementation of the resettlement and rehabilitation package, if execution of such package is in the interest of expeditious implementation of the Project and is beneficial to the Project affected persons.

5.2 Appointing Contractors:

5.2.1 The TSP shall conform to the requirements as provided in this Agreement while appointing Contractor(s) for procurement of goods & services.

5.2.2 The appointment of such Contractor(s) shall neither relieve the TSP of any of its obligations under this Agreement nor make the Nodal Agency liable for the performance of such Contractor(s).

5.3 Monthly Progress Reporting:

The TSP shall provide to the CEA, Nodal Agency & Independent Engineer, on a monthly basis, progress reports along with likely completion date of each Element with regard to the Project and its execution (in accordance with prescribed form). The Nodal Agency/ CEA shall monitor the development of the Project for its timely completion for improving and augmenting the electricity system as a part of its statutory responsibility.

5.4 Quality of Workmanship:

The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying with Indian /International Standards such that, the useful life of the Project will be at least thirty five (35) years from the COD of the Project.

The TSP shall ensure that all major substation equipment / component (e.g. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer bushings and wall bushings, GIS bus ducts, towers

and gantry structures and transmission towers or poles and line materials (conductors, earthwire, OPGW, insulator, accessories for conductors, OPGW & earthwires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.

5.5 Progress Monitoring & Quality Assurance:

5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3 c) shall comprise of detailed schedule of all the equipments/items /materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.

5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.

5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.

5.5.4 The Independent Engineer shall monitor the following during construction of the Project:

a) Quality of equipments, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipments, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.
b) Progress in the activities specified in Condition Subsequent
c) Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements
d) Progress of construction of substation and Transmission Lines

5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-à-vis milestone activities, areas of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the

procedure of this Agreement.

5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.

5.6 Site regulations and Construction Documents

The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement

The TSP shall retain at the Site and make available for inspection at all reasonable times, copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.

5.7 Supervision of work:

The TSP shall provide all necessary superintendence for execution of the Project and its supervisory personnel shall be available to provide full-time superintendence for execution of the Project. The TSP shall provide skilled personnel who are experienced in their respective fields.

5.8 Remedial Measures:

The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement .

ARTICLE: 6

6 CONNECTION AND COMMISSIONING OF THE PROJECT

6.1 Connection with the Inter-Connection Facilities:

6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.

6.1.2 The RLDC / SLDC (as the case may be) or the CTU / STU (as the case may be), for reasonable cause, including non-availability of Interconnection Facilities as per Article 4.2, can defer the connection for up to fifteen (15) days from the date notified by the TSP pursuant to Article 6.1.1, if it notifies to the TSP in writing, before the date of connection, of the reason for the deferral and when the connection is to be rescheduled. However, no such deferment on one or more occasions would be for more than an aggregate period of thirty (30) days. Further, the Scheduled COD would be extended as required, for all such deferments on "day to day" basis.

6.1.3 Subject to Articles 6.1.1 and 6.1.2, any Element of Project may be connected with the Interconnection Facilities when:

a) it has been completed in accordance with this Agreement and the Connection Agreement;
b) it meets the Grid Code, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and all other Indian legal requirements, and
c) The TSP has obtained the approval in writing of the Electrical Inspector certifying that the Element is ready from the point of view of safety of supply and can be connected with the Interconnection Facilities.

6.1.4 It has satisfactorily met all the testing requirements as per Articles 6.1.4

6.1.5 Site Acceptance Test (SAT)/ pre-commissioning tests of all major substation equipment, component, system, facilities shall be successfully carried out before commissioning. The Type tests, FAT and SAT reports should be available at the substation / terminal station of HVDC installations for ready reference of operation and maintenance staff and has to be made available to the Independent Engineer appointed for quality monitoring or their authorised representatives, as and when they wish to examine the same.

6.2 Commercial Operation:

6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.

Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.

6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element

6.3 Compensation for Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event (affecting the Nodal Agency)

6.3.1 If the TSP is otherwise ready to connect the Element(s) of the Project and has given due notice, as per provisions of Article 6.1.1, to the concerned agencies of the date of intention to connect the Element(s) of the Project, where such date is not before the Scheduled COD, but is not able to connect the Element(s) of the Project by the said date specified in the notice, due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, provided such Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency has continued for a period of more than three (3) continuous or non-continuous Months, the TSP shall, until the effects of the Direct Non Natural Force Majeure Event or of Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency no longer prevent the TSP from connecting the Element(s) of the Project, be deemed to have achieved COD relevant to that date and to this extent, be deemed to have been providing Transmission Service with effect from the date notified, and shall be treated as follows:

a) In case of delay due to Direct Non Natural Force Majeure Event, TSP is entitled for Transmission Charges calculated on Target Availability for the period of such events in excess of three (3) continuous or non continuous Months in the manner provided in (c) below.

b) In case of delay due to Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission

Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non continuous Months in the manner provided in (c) below.

c) In case of delay due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, the TSP is entitled for payments mentioned in (a) and (b) above, after commencement of Transmission Service, in the form of an increase in Transmission Charges. These amounts shall be paid from the date, being the later of a) the date of cessation of such Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency and b) the completion of sixty (60) days from the receipt of the Financing Agreements by the Nodal Agency from the TSP.

Provided such increase in Transmission Charges shall be so as to put the TSP in the same economic position as the TSP would have been in case the TSP had been paid amounts mentioned in (a) and (b) above in a situation where the Force Majeure Event had not occurred.

For the avoidance of doubt, it is clarified that the charges payable under this Article 6.3.1 shall be recovered as per Sharing Regulations.

6.4 Liquidated Damages for Delay in achieving COD of Project:

6.4.1 If the TSP fails to achieve COD of any Element of the Project or the Project, by the Element's / Project's Scheduled COD or such Scheduled COD as extended under Articles 4.4.1 and 4.4.3, then the TSP shall pay to the Nodal Agency, a sum equivalent to 3.33% of Monthly Transmission Charges applicable for the Element of the Project [in case where no Elements have been defined, to be on the Project as a whole] / Project, for each day of delay up to sixty (60) days of delay and beyond that time limit, at the rate of five percent (5%) of the Monthly Transmission Charges applicable to such Element / Project, as liquidated damages for such delay and not as penalty, without prejudice to any rights of the Nodal Agency under the Agreement.

6.4.2 The TSP's maximum liability under this Article 6.4 shall be limited to the amount of liquidated damages calculated in accordance with Article 6.4.1 for and up to six (6) months of delay for the Element or the Project.

Provided that, in case of failure of the TSP to achieve COD of the Element of the Project even after the expiry of six (6) months from its Scheduled COD, the provisions of Article 13 shall apply.

6.4.3 The TSP shall make payment to the Nodal Agency of the liquidated damages calculated pursuant to Article 6.4.1 within ten (10) days of the earlier of:

a) the date on which the applicable Element achieves COD; or

b) the date of termination of this Agreement.

The payment of such damages shall not relieve the TSP from its obligations to

complete the Project or from any other obligation and liabilities under the Agreement.

6.4.4 If the TSP fails to pay the amount of liquidated damages to the Nodal Agency within the said period of ten (10) days, the Nodal Agency shall be entitled to recover the said amount of the liquidated damages by invoking the Contract Performance Guarantee. If the then existing Contract Performance Guarantee is for an amount which is less than the amount of the liquidated damages payable by the TSP to the Nodal Agency under this Article 6.3 and the TSP fails to make payment of the balance amount of the liquidated damages not covered by the Contract Performance Guarantee, then such balance amount shall be deducted from the Transmission Charges payable to the TSP. The right of the Nodal Agency to encash the Contract Performance Guarantee is without prejudice to the other rights of the Nodal Agency under this Agreement.

6.4.5 For avoidance of doubt, it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.

6.5 Return of Contract Performance Guarantee

6.5.1 The Contract Performance Guarantee as submitted by TSP in accordance with Article 3.1.1 shall be released by the Nodal Agency within three (3) months from the COD of the Project. In the event of delay in achieving Scheduled COD of any of the Elements by the TSP (otherwise than due to reasons as mentioned in Article 3.1.3 or Article 11) and consequent part invocation of the Contract Performance Guarantee by the Nodal Agency, Nodal Agency shall release the Contract Performance Guarantee, if any remaining unadjusted, after the satisfactory completion by the TSP of all the requirements regarding achieving the Scheduled COD of the remaining Elements of the Project. It is clarified that the Nodal Agency shall also return / release the Contract Performance Guarantee in the event of (i) applicability of Article 3.3.1 to the extent the Contract Performance Guarantee is valid for an amount in excess of Rupees 11.80 Crore (Rs. Eleven Crore Eighty Lakh) [Amount to be inserted by the BPC, as computed in Article 3.3.3], or (ii) termination of this Agreement by the Nodal Agency as mentioned under Article 3.3.4 of this Agreement.

6.5.2 The release of the Contract Performance Guarantee shall be without prejudice to other rights of the Nodal Agency under this Agreement.

ARTICLE: 7

7 OPERATION AND MAINTENANCE OF THE PROJECT

7.1 Operation and Maintenance of the Project:

The TSP shall be responsible for ensuring that the Project is operated and maintained in accordance with the regulations made by the Commission and CEA from time to time and provisions of the Act.

ARTICLE: 8

8 AVAILABILITY OF THE PROJECT

8.1 Calculation of Availability of the Project:

Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024,** as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.

8.2 Target Availability:

The Target Availability of each Element and the Project shall be **98%.**

Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.

If the availability of any Element or the Project is below the Target Availability, for six consecutive months in a Contract Year, the DIC(s) or the Nodal Agency may issue a show cause notice to the TSP, asking them to show cause as to why the Transmission Service Agreement be not terminated, and if no satisfactory cause is shown it may terminate the Agreement. If the Nodal Agency is of the opinion that the transmission system is of critical importance, it may carry out or cause to carry the operation and maintenance of transmission system at the risk and cost of TSP.

ARTICLE: 9

9 INSURANCES

9.1 Insurance:

9.1.1 The TSP shall effect and maintain or cause to be effected and maintained during the Construction Period and the Operating Period, adequate Insurances against such risks, with such deductibles including but not limited to any third party liability and endorsements and co-beneficiary/insured, as may be necessary under

a. any of the Financing Agreements,

b. the Laws, and

c. in accordance with Prudent Utility Practices.

The Insurances shall be taken effective from a date prior to the date of the Financial Closure till the Expiry Date.

9.2 Evidence of Insurance cover:

9.2.1 The TSP shall furnish to the Nodal Agency copies of certificates and policies of the Insurances, as and when the Nodal Agency may seek from the TSP as per the terms of Article 9.1

9.3 Application of Insurance Proceeds:

9.3.1 Save as expressly provided in this Agreement, the policies of Insurances and the Financing Agreements, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.

9.3.2 If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the portion of the proceeds of such Insurance available to the TSP (after making admissible payments to the Lenders as per the Financing Agreements) shall be allocated only to the TSP. Nodal Agency and / or concerned Designated ISTS Customers shall have no claim on such proceeds of the Insurance.

9.3.3 Subject to the requirements of the Lenders under the Financing Agreements, any dispute or difference between the Parties as to whether the Project is no longer economically and technically viable due to a Force Majeure Event or whether that event was adequately covered in accordance with this Agreement by the Insurances shall be determined in accordance with Article 16.

9.4 Effect on liability of the Nodal Agency / Designated ISTS Customers

9.4.1 The Nodal Agency and / or the Designated ISTS Customers shall have no financial obligations or liability whatsoever towards the TSP in respect of this Article 9.

NER EXPANSION TRANSMISSION LIMITED

ARTICLE: 10

10 BILLING AND PAYMENT OF TRANSMISSION CHARGES

10.1 Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.

10.2 Calculation of Monthly Transmission Charges:

The Monthly Transmission Charges for each Contract Year including Incentive & Penalty payment shall be calculated in accordance with the provisions of Schedule 4 of this Agreement.

10.3 Rebate & Late Payment Surcharge:

The rebate and late payment surcharge shall be governed as per Sharing Regulations.

10.4 Disputed Bills, Default in payment by the Designated ISTS Customers & Annual Reconciliation:

Any Disputed Bill, Default in payment by the Designated ISTS Customers & Annual Reconciliation shall be governed as per Sharing Regulations.

ARTICLE: 11

11 FORCE MAJEURE

11.1 Definitions

11.1.1 The following terms shall have the meanings given hereunder.

11.2 Affected Party

11.2.1 An Affected Party means any Party whose performance has been affected by an event of Force Majeure.

11.2.2 Any event of Force Majeure shall be deemed to be an event of Force Majeure affecting the TSP only if the Force Majeure event affects and results in, late delivery of machinery and equipment for the Project or construction, completion, commissioning of the Project by Scheduled COD and/or operation thereafter;

11.3 Force Majeure

A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:

a) Natural Force Majeure Events:

i. act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred (100) years; and

ii. epidemic/ pandemic notified by Indian Governmental Instrumentality.

b) Non-Natural Force Majeure Events :

i. Direct Non–Natural Force Majeure Events

- Nationalization or compulsory acquisition by any Indian Governmental Instrumentality of any material assets or rights of the Affected Party; or
- the unlawful, unreasonable or discriminatory revocation of, or refusal to renew, any Consents, Clearances and Permits required by the Affected Party to perform their obligations/ roles under the RFP Project Documents or any

unlawful, unreasonable or discriminatory refusal to grant any other Consents, Clearances and Permits required for the development/ operation of the Project, provided that a Competent Court of Law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down; or

- any other unlawful, unreasonable or discriminatory action on the part of an Indian Governmental Instrumentality which is directed against the Project, provided that a Competent Court of Law declares the action to be unlawful, unreasonable and discriminatory and strikes the same down.

ii. Indirect Non - Natural Force Majeure Events

- act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or

- radio active contamination or ionising radiation originating from a source in India or resulting from any other Indirect Non Natural Force Majeure Event mentioned above, excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Site by the Affected Party or those employed or engaged by the Affected Party; or

- industry-wide strikes and labour disturbances, having a nationwide impact in India.

11.4 Force Majeure Exclusions

11.4.1 Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

a) Unavailability, late delivery, or changes in cost of the machinery, equipment, materials, spare parts etc. for the Project;

b) Delay in the performance of any Contractors or their agents;

c) Non-performance resulting from normal wear and tear typically experienced in transmission materials and equipment;

d) Strikes or labour disturbance at the facilities of the Affected Party;

e) Insufficiency of finances or funds or the Agreement becoming onerous to perform; and

f) Non-performance caused by, or connected with, the Affected Party's;

i. negligent or intentional acts, errors or omissions;

ii. failure to comply with an Indian Law; or

iii. breach of, or default under this Agreement or any Project Documents.

g) Any error or omission in the survey report provided by BPC during the bidding process.

11.5 Notification of Force Majeure Event

11.5.1 The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

Provided that, such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under this Agreement. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure.

11.5.2 The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations/ roles under this Agreement, as soon as practicable after becoming aware of each of these cessations.

11.6 Duty to perform and duty to mitigate

To the extent not prevented by a Force Majeure Event, the Affected Party shall continue to perform its obligations/ roles as provided in this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.

11.7 Available Relief for a Force Majeure Event

Subject to this Article 11,

a) no Party shall be in breach of its obligations/ roles pursuant to this Agreement to the extent that the performance of its obligations/ roles was prevented,

hindered or delayed due to a Force Majeure Event;

b) each Party shall be entitled to claim relief for a Force Majeure Event affecting its performance in relation to its obligations/ roles under Articles 3.3.4, 4.4.2 and 6.3.1 of this Agreement.

c) For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024** as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).

d) For so long as the TSP is claiming relief due to any Force Majeure Event under this Agreement, the Nodal Agency may, if it so desires, from time to time on one (1) day notice, inspect the Project and the TSP shall provide the Nodal Agency's personnel with access to the Project to carry out such inspections.

e) For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost, incident expenditure, opportunity cost will be made to the TSP. However, if Scheduled COD is extended beyond a period of one hundred eighty (180) days due to Force Majeure event, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

ARTICLE: 12

12 CHANGE IN LAW

12.1 Change in Law

12.1.1 Change in Law means the occurrence of any of the following after the Bid Deadline resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP:

- the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law, subject to the provisions under Article 12.1.2;
- a change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- a change in the terms and conditions prescribed for obtaining any Consents, Clearances and Permits or the inclusion of any new terms or conditions for obtaining such Consents, Clearances and Permits;
- any change in the licensing regulations of the Commission, under which the Transmission License for the Project was granted if made applicable by such Commission to the TSP;
- change in wind zone; or
- any change in tax or introduction of any tax made applicable for providing Transmission Service by the TSP as per the terms of this Agreement.

12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:

a) Taxes on corporate income; and
b) Withholding tax on income or dividends distributed to the shareholders of the TSP.

12.2 Relief for Change in Law

12.2.1 During Construction Period, the impact of increase/decrease in the cost of the Project on the Transmission Charges shall be governed by the formula given in Schedule 9 of this Agreement.

12.2.2 During the Operation Period:

NER EXPANSION TRANSMISSION LIMITED

During the operation period, if as a result of Change in Law, the TSP suffers or is benefited from a change in costs or revenue, the aggregate financial effect of which exceeds 0.30% (zero point three percent) of the Annual Transmission Charges in aggregate for a Contract Year, the TSP may notify so to the Nodal Agency and propose amendments to this Agreement so as to place the TSP in the same financial position as it would have enjoyed had there been no such Change in Law resulting in change in costs or revenue as aforesaid.

12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.

In cases where Change in Law results in decrease of cost and it comes to the notice of Nodal Agency that TSP has not informed Nodal Agency about such decrease in cost, Nodal Agency may initiate appropriate claim.

12.3 Notification of Change in Law:

12.3.1 If the TSP is affected by a Change in Law in accordance with Article 12.1 and wishes to claim relief for such Change in Law under this Article 12, it shall give notice to Nodal Agency of such Change in Law as soon as reasonably practicable after becoming aware of the same.

12.3.2 The TSP shall also be obliged to serve a notice to the Nodal Agency even when it is beneficially affected by a Change in Law.

12.3.3 Any notice served pursuant to Articles 12.3.1 and 12.3.2 shall provide, amongst other things, precise details of the Change in Law and its estimated impact on the TSP.

12.4 Payment on account of Change in Law

12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.

ARTICLE: 13

13 EVENTS OF DEFAULT AND TERMINATION

13.1 TSP's Event of Default

The occurrence and continuation of any of the following events shall constitute a TSP Event of Default, unless any such TSP Event of Default occurs as a result of any non-fulfilment of its obligations as prescribed under this Agreement by the Nodal Agency or a Force Majeure Event:

a. After having taken up the construction of the Project, the abandonment by the TSP or the TSP's Contractors of the construction of the Project for a continuous period of two (2) months and such default is not rectified within thirty (30) days from the receipt of notice from the Nodal Agency in this regard;
b. The failure to commission any Element of the Project by the date falling six (6) months after its Scheduled COD unless extended by Nodal Agency as per provisions of this Agreement;
c. If the TSP:
    i. assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this Agreement; or
    ii. transfers or novates any of its obligations pursuant to this Agreement, in a manner contrary to the provisions of this Agreement;

Except where such transfer is in pursuance of a Law and

    i. it does not affect the ability of the transferee to perform, and such transferee has the financial and technical capability to perform, its obligations under this Agreement;
    ii. is to a transferee who assumes such obligations under the Project and this Agreement remains effective with respect to the transferee;

d. If:
    i. The TSP becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such proceedings remain uncontested for a period of thirty (30) days; or
    ii. any winding up or bankruptcy or insolvency order is passed against the TSP; or
    iii. the TSP goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,

    Provided that a dissolution or liquidation of the TSP will not be a TSP's Event of Default, where such dissolution or liquidation of the TSP is for the purpose of a merger, consolidation or reorganization with the prior approval of the Commission as per the provisions of Central

Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 or as amended from time to time; or

e. Failure on the part of the TSP to comply with the provisions of Article 19.1 of this Agreement; or

f. the TSP repudiates this Agreement and does not rectify such breach even within a period of thirty (30) days from a notice from the Nodal Agency in this regard; or

g. after Commercial Operation Date of the Project, the TSP fails to achieve monthly Target Availability of 98% [to be inserted by the BPC as applicable] [98% for AC system and 95% for HVDC system], for a period of six (6) consecutive months or within a non-consecutive period of six (6) months within any continuous aggregate period of eighteen(18) months except where the Availability is affected by Force Majeure Events as per Article 11; or

h. any of the representations and warranties made by the TSP in Article 17 of this Agreement being found to be untrue or inaccurate. Further, in addition to the above, any of the undertakings submitted by the Selected Bidder at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its Parent Company / Affiliates related to the minimum equity obligation; or

i. the TSP fails to complete / fulfil all the activities / conditions within the specified period as per Article 3; or

j. except for the reasons solely attributable to Nodal Agency, the TSP is in material breach of any of its obligations under this Agreement and such material breach is not rectified by the TSP within thirty (30) days of receipt of notice in this regard from the Nodal Agency; or

k. the TSP fails to take the possession of the land required for location specific substations, switching stations or HVDC terminal or inverter stations and / or fails to pay the requisite price to the parties and / or any State Government authority from whom the land is acquired, within twelve (12) months from the Effective Date.

13.2 Termination Procedure for TSP Event of Default

a. Upon the occurrence and continuance of any TSP's Event of Default under Article 13.1 the Nodal Agency may serve notice on the TSP, with a copy to the CEA and the Lenders' Representative, of their intention to terminate this Agreement (a "Nodal Agency's Preliminary Termination Notice"), which shall specify in reasonable detail, the circumstances giving rise to such Nodal Agency's Preliminary Termination Notice.

b. Following the issue of a Nodal Agency's Preliminary Termination Notice, the Consultation Period shall apply and would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.

c. During the Consultation Period, the Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement, and the TSP shall not remove any material, equipment or any part of the Project, without prior consent of the Nodal Agency.

Following the expiry of the Consultation Period, unless the Parties shall have otherwise agreed to the contrary or the circumstances giving rise to Nodal Agency's Preliminary Termination Notice shall have ceased to exist or shall have been remedied, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

Further, the Nodal Agency may also initiate proceedings to blacklist the TSP & its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.

13.3 Procedure for Nodal Agency's non-fulfilment of Role

a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2, the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfilment of role by the Nodal Agency.
b. Following the issue of a TSP's Preliminary Notice, the Consultation Period shall apply.
c. The Consultation Period would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant non-fulfilment of role by the Nodal Agency including giving time extension to TSP, having regard to all the circumstances.
d. During the Consultation Period, both Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement.

13.4 Termination due to Force Majeure

13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.

13.4.2 In case of termination of this Agreement, the TSP shall provide to the Nodal Agency the full names and addresses of its Contractors as well as complete designs, design drawings, manufacturing drawings, material specifications and technical information, as required by the Nodal Agency within thirty (30) days of Termination Notice.

13.5 Termination or amendment due to non-requirement of any Element or Project during construction

13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.

13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal Agency shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.

13.5.3 The TSP shall neither carry out further investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.

13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.

13.6 Revocation of the Transmission License

13.6.1 The Commission may, as per the provisions of the Electricity Act, 2003, revoke the Transmission License of the ISTS Licensee. Further, in such a case, the Agreement shall be deemed to have been terminated.

13.7 Termination Payment

13.7.1 If Agreement is terminated on account of Force Majeure Events, non-requirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.

ARTICLE: 14

14 LIABILITY AND INDEMNIFICATION

14.1 Indemnity

14.1.1 The TSP shall indemnify, defend and hold the Nodal Agency harmless against:

(a) any and all third party claims, actions, suits or proceedings against the Nodal Agency for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the TSP of any of its obligations under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of Nodal Agency; and

(b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by the Nodal Agency from third party claims arising by reason of:

i. a breach by the TSP of any of its obligations under this Agreement, (provided that this Article 14 shall not apply to such breaches by the TSP, for which specific remedies have been provided for under this Agreement) except to the extent that any such losses, damages, costs and expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of the Nodal Agency, or

ii. any of the representations and warranties of the TSP under this Agreement being found to be inaccurate or untrue.

14.1.2 The Nodal Agency shall, in accordance with the Regulations framed by CERC in this regard, indemnify, defend and hold the TSP harmless against:

(a) any and all third party claims, actions, suits or proceedings against the TSP, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of any material breach by the Nodal Agency of any of their roles under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents; and

(b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest ('Indemnifiable Losses') actually suffered or incurred by the TSP from third party claims arising by reason of:

i. any material breach by the Nodal Agency of any of its roles under this Agreement (provided that, this Article 14 shall not apply to such breaches by the Nodal Agency, for which specific remedies have been provided for under this Agreement), except to the extent that any such Indemnifiable Losses have arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents or

ii. any of the representations and warranties of the Nodal Agency under this Agreement being found to be inaccurate or untrue.

14.2 Patent Indemnity:

14.2.1

(a) The TSP shall, subject to the Nodal Agency's compliance with Article 14.2.1 (b), indemnify and hold harmless the Nodal Agency and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Nodal Agency may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

Such indemnity shall not cover any use of the Project or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Agreement, any infringement resulting from the misuse of the Project or any part thereof, or any products produced in association or combination with any other equipment, plant or materials not supplied by the TSP, pursuant to the Agreement.

(b) If any proceedings are brought or any claim is made against the Nodal Agency arising out of the matters referred to in Article 14.2.1(a), the Nodal Agency shall promptly give the TSP a notice thereof, and the TSP shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The TSP shall promptly notify the Nodal Agency of all actions taken in such proceedings or claims.

(c) If the TSP fails to notify the Nodal Agency within twenty-eight (28) days after receipt of such notice from the Nodal Agency under Article 14.2.1(b) above, that it intends to attend any such proceedings or claim, then the Nodal Agency shall be free to attend the same on their own behalf at the cost of the TSP. Unless the TSP has so failed to notify the Nodal Agency within the twenty eight (28) days period, the Nodal Agency shall make no admission that may be prejudicial to the defence

of any such proceedings or claims.

(d) The Nodal Agency shall, at the TSP's request, afford all available assistance to the TSP in attending to such proceedings or claim, and shall be reimbursed by the TSP for all reasonable expenses incurred in so doing.

14.2.2

(a) The Nodal Agency, in accordance with the Regulations framed by CERC in this regard, subject to the TSP's compliance with Article 14.2.2(b) shall indemnify and hold harmless the TSP and its employees, officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of whatsoever nature, including attorney's fees and expenses, which the TSP may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

(b) If any proceedings are brought or any claim is made against the TSP arising out of the matters referred to in Article 14.2.2 (a) the TSP shall promptly give the Nodal Agency a notice thereof, and the Nodal Agency shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The Nodal Agency shall promptly notify the TSP of all actions taken in such proceedings or claims.

(c) If the Nodal Agency fails to notify the TSP within twenty-eight (28) days after receipt of such notice from the TSP under Article 14.2.2(b) above, that it intends to attend any such proceedings or claim, then the TSP shall be free to attend the same on its own behalf at the cost of the Nodal Agency. Unless the Nodal Agency has so failed to notify the TSP within the twenty (28) days period, the TSP shall make no admission that may be prejudicial to the defence of any such proceedings or claim.

(d) The TSP shall, at the Nodal Agency request, afford all available assistance to the Nodal Agency in attending to such proceedings or claim, and shall be reimbursed by the Nodal Agency for all reasonable expenses incurred in so doing.

14.3 Monetary Limitation of liability

14.3.1 A Party ("Indemnifying Party") shall be liable to indemnify the other Party ("Indemnified Party") under this Article 14 for any indemnity claims made in a Contract Year only up to an amount of Rupees 0.79 Crore (Rs. Seventy Nine Lakh).

14.4 Procedure for claiming indemnity

14.4.1 Where the Indemnified Party is entitled to indemnification from the Indemnifying

Party pursuant to Articles 14.1 or 14.2 the Indemnified Party shall promptly notify the Indemnifying Party of such claim, proceeding, action or suit referred to in Articles 14.1 or 14.2 in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the Indemnified Party becomes aware of such claim, proceeding, action or suit. The Indemnifying Party shall be liable to settle the indemnification claim within thirty (30) days of receipt of the above notice.

Provided however that, if:

i. the Parties choose to contest, defend or litigate such claim, action, suit or proceedings in accordance with Article 14.4.3 below; and

ii. the claim amount is not required to be paid/deposited to such third party pending the resolution of the Dispute,

the Indemnifying Party shall become liable to pay the claim amount to the Indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the Indemnified Party.

14.4.2 The Indemnified Party may contest, defend and litigate a claim, action, suit or proceeding for which it is entitled to be indemnified under Articles 14.1 or 14.2 and the Indemnifying Party shall reimburse to the Indemnified Party all reasonable costs and expenses incurred by the Indemnified Party. However, such Indemnified Party shall not settle or compromise such claim, action, suit or proceedings without first getting the consent of the Indemnifying Party, which consent shall not be unreasonably withheld or delayed.

14.4.3 An Indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against the Indemnified Party if it acknowledges its obligation to indemnify such Indemnified Party, gives such Indemnified Party prompt notice of its intention to assume control of the defence, and employs an independent legal counsel at its own cost that is reasonably satisfactory to the Indemnified Party.

14.5 Limitation on Liability

14.5.1 Except as expressly provided in this Agreement, neither the TSP nor the Nodal Agency nor their respective officers, directors, agents, employees or Affiliates (including, officers, directors, agents or employees of such Affiliates), shall be liable or responsible to the other Party or its Affiliates including its officers, directors, agents, employees, successors, insurers or permitted assigns for incidental, indirect or consequential, punitive or exemplary damages, connected with or resulting from performance or non-performance of this Agreement, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this Agreement), any increased expense of,

reduction in or loss of transmission capacity or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, whether of the Nodal Agency, the TSP or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.

14.5.2 The Nodal Agency shall have no recourse against any officer, director or shareholder of the TSP or any Affiliate of the TSP or any of its officers, directors or shareholders for such claims excluded under this Article. The TSP shall also have no recourse against any officer, director or shareholder of the Nodal Agency, or any Affiliate of the Nodal Agency or any of its officers, directors or shareholders for such claims excluded under this Article.

14.6 Duty to Mitigate

The party entitled to the benefit of an indemnity under this Article 14 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.

ARTICLE: 15

15 ASSIGNMENTS AND CHARGES

15.1 Assignments:

15.1.1 This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party, except as provided in Article 15.3.

15.2 Permitted Charges:

15.2.1 Neither Party shall create or permit to subsist any encumbrance over all or any of its rights and benefits under this Agreement.

15.2.2 However, the TSP may create any encumbrance over all or part of the receivables, or the Project Assets of the Project in favour of the Lenders or the Lenders' Representative on their behalf, as security for amounts payable under the Financing Agreements and any other amounts agreed by the Parties.

Provided that:

i. the Lenders or the Lenders' Representative on their behalf shall have entered into the Financing Agreements and agreed in writing to the provisions of this Agreement; and

ii. any encumbrance granted by the TSP in accordance with this Article 15.2.2 shall contain provisions pursuant to which the Lenders or the Lender's Representative on their behalf agrees unconditionally with the TSP to release from such encumbrances upon payment by the TSP to the Lenders of all amounts due under the Financing Agreements.

15.2.3 Article 15.2.1 does not apply to:

a. liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of the TSP developing and operating the Project;

b. pledges of goods, the related documents of title and / or other related documents, arising or created in the ordinary course of the TSP developing and operating the Project; or

c. security arising out of retention of title provisions in relation to goods acquired in the ordinary course of the TSP developing and operating the Project.

15.3 Substitution Rights of the Lenders

15.3.1 The TSP would need to operate and maintain the Project under the provisions of this

Agreement and cannot assign the Transmission License or transfer the Project or part thereof to any person by sale, lease, exchange or otherwise, without the prior approval of the Nodal Agency.

15.3.2 However, in the case of default by the TSP in debt repayments or in the case of default by the TSP as per Article 13 of this Agreement during the debt repayments, the Commission may, on an application from the Lenders, assign the Transmission License to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 and as amended from time to time.

ARTICLE: 16

16 GOVERNING LAW AND DISPUTE RESOLUTION

16.1 Governing Law:

This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Delhi.

16.2 Amicable Settlement:

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with this Agreement, including its existence or validity or termination or whether during the execution of the Project or after its completion and whether prior to or after the abandonment of the Project or termination or breach of the Agreement by giving a written notice to the other Party, which shall contain:

(i) a description of the Dispute;
(ii) the grounds for such Dispute; and
(iii) all written material in support of its claim.

16.2.2 The other Party shall, within thirty (30) days of issue of notice issued under Article 16.2.1, furnish:

(i) counter-claim and defences, if any, regarding the Dispute; and
(ii) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) days of issue of notice by the Party pursuant to Article 16.2.1, if the other Party does not furnish any counter claim or defense under Article 16.2.2, or thirty (30) days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet to settle such Dispute amicably. If the Parties fail to resolve the Dispute amicably within thirty (30) days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

16.3 Dispute Resolution:

All Disputes shall be adjudicated by the Commission.

16.4 Parties to Perform Obligations:

Notwithstanding the existence of any Dispute and difference referred to the Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement.

ARTICLE: 17

17 REPRESENTATION AND WARRANTIES

17.1 Representation and warranties of the Nodal Agency

17.1.1 The Nodal Agency hereby represents and warrants to and agrees with the TSP as follows and acknowledges and confirms that the TSP is relying on such representations and warranties in connection with the transactions described in this Agreement:

a. It has all requisite powers and authority to execute and consummate this Agreement;

b. This Agreement is enforceable against the Nodal Agency in accordance with its terms;

c. The consummation of the transactions contemplated by this Agreement on the part of Nodal Agency will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Nodal Agency is a Party or to which the Nodal Agency is bound, which violation, default or power has not been waived;

17.2 Representation and Warranties of the TSP:

17.2.1 The TSP hereby represents and warrants to and agrees with the Nodal Agency as follows and acknowledges and confirms that the Nodal Agency is relying on such representations and warranties in connection with the transactions described in this Agreement:

a. It has all requisite powers and has been duly authorized to execute and consummate this Agreement;

b. This Agreement is enforceable against it, in accordance with its terms;

c. The consummation of the transactions contemplated by this Agreement on the part of the TSP will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the TSP is a Party or to which the TSP is bound which violation, default or power has not been waived;

d. The TSP is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the TSP;

e. There are no actions, suits, claims, proceedings or investigations pending or, to the best of the TSP's knowledge, threatened in writing against the TSP at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this Agreement.

17.2.2 The TSP makes all the representations and warranties above to be valid as on the Effective Date of this Agreement.

ARTICLE: 18

18 INDEPENDENT ENGINEER

18.1 Appointment of Independent Engineer

The Nodal Agency shall appoint an agency/ company as Independent Engineer as per framework provided in the Guidelines for Encouraging Competition in Development of Transmission Projects for selection of Independent Engineer.

18.2 Roles and functions of Independent Engineer

The role and functions of the Independent Engineer shall include the following:

a. Progress Monitoring as required under this Agreement;
b. Ensuring Quality as required under this Agreement;
c. determining, as required under the Agreement, the costs of any works or services and/or their reasonableness during construction phase;
d. determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation during construction phase;
e. determining, as required under the Agreement, the valuation of the Project Assets.
f. Assisting the Parties in resolution of Disputes and
g. Undertaking all other duties and functions in accordance with the Agreement.

18.3 Remuneration of Independent Engineer

The fee and charges of the Independent Engineer shall be paid by the Nodal Agency as per terms & conditions of appointment.

18.4 Termination of appointment

18.4.1 The Nodal Agency may, in its discretion, terminate the appointment of the Independent Engineer at any time, but only after appointment of another Independent Engineer.

18.4.2 If the TSP has reason to believe that the Independent Engineer is not discharging its duties and functions in a fair, efficient and diligent manner, it may make a written representation to the Nodal Agency and seek termination of the appointment of the Independent Engineer. Upon receipt of such representation, the Nodal Agency shall hold a tripartite meeting with the TSP and Independent Engineer for an amicable

resolution, and the decision of Nodal agency is final. In the event that the appointment of the Independent Engineer is terminated hereunder, the Nodal Agency shall appoint forthwith another Independent Engineer.

18.5 Authorised signatories

The Nodal Agency shall require the Independent Engineer to designate and notify to the Nodal Agency up to 2 (two) persons employed in its firm to sign for and on behalf of the Independent Engineer, and any communication or document required to be signed by the Independent Engineer shall be valid and effective only if signed by any of the designated persons; provided that the Independent Engineer may, by notice in writing, substitute any of the designated persons by any of its employees.

ARTICLE: 19

19 MISCELLANEOUS PROVISIONS

19.1 Equity Lock-in Commitment:

19.1.1 The aggregate equity share holding of the Selected Bidder in the issued and paid up equity share capital of NER EXPANSION TRANSMISSION LIMITED shall not be less than Fifty one percent (51%) up to a period of one (1) year after COD of the Project.

Provided that, in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction as specified above shall apply to such entities.

Provided further, that in case the Selected Bidder is a Bidding Consortium, the Lead Member shall continue to hold equity of at least twenty six percent (26%) upto a period of one (1) year after COD of the Project and any Member of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified above.

19.1.2 If equity is held by the Affiliates, Parent Company or Ultimate Parent Company of the Selected Bidder, then, subject to the second proviso to Article 19.1.1, such Affiliate, Parent Company or Ultimate Parent Company shall be eligible to transfer its shareholding in NER EXPANSION TRANSMISSION LIMITED to another Affiliate or to the Parent Company / Ultimate Parent Company of the Selected Bidder. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company of the Selected Bidder.

19.1.3 Subject to Article 19.1.1, all transfer(s) of shareholding of NER EXPANSION TRANSMISSION LIMITED by any of the entities referred to in Article 19.1.1 and 19.1.2 above, shall be after prior written intimation to the Nodal Agency.

19.1.4 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate(s) or Ultimate Parent Company in NER EXPANSION TRANSMISSION LIMITED shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in NER EXPANSION TRANSMISSION LIMITED, then holding of Selected Bidder A in NER EXPANSION TRANSMISSION

LIMITED shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in NER EXPANSION TRANSMISSION LIMITED, then, for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in NER EXPANSION TRANSMISSION LIMITED shall be fifteen percent (15%), (i.e., 30% x 50%)

19.1.5 The provisions as contained in this Article 19.1 shall override the terms of the consortium agreement submitted as part of the Bid.

19.1.6 The TSP shall be responsible to report to Nodal Agency, within thirty (30) days from the occurrence of any event that would result in any change in its equity holding structure from that which existed as on the date of signing of the Share Purchase Agreement. In such cases, the Nodal Agency would reserve the right to ascertain the equity holding structure and to call for all such required documents / information / clarifications as may be required.

19.2 Commitment of maintaining Qualification Requirement

19.2.1 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements, as stipulated in RFP Document, till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project.

19.2.2 Failure to comply with the aforesaid provisions shall be dealt in the same manner as TSP's Event of Default as under Article 13 of this Agreement.

19.3 Language:

19.3.1 All agreements, correspondence and communications between the Parties relating to this Agreement and all other documentation to be prepared and supplied under the Agreement shall be written in English, and the Agreement shall be construed and interpreted in accordance with English language.

19.3.2 If any of the agreements, correspondence, communications or documents are prepared in any language other than English, the English translation of such agreements, correspondence, communications or documents shall prevail in matters of interpretation.

19.4 Affirmation

The TSP and the Nodal Agency, each affirm that:

NER EXPANSION TRANSMISSION LIMITED

a) neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and

b) it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this Agreement, and the TSP and the Nodal Agency hereby undertake not to engage in any similar acts during the Term of Agreement.

19.5 Severability

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement.

19.6 Counterparts

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which collectively shall be deemed one and the same Agreement.

19.7 Breach of Obligations/ Roles

The Parties acknowledge that a breach of any of the obligations/ roles contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting Party in each case specified under this Agreement.

19.8 Restriction of Shareholders / Owners Liability

19.8.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this Agreement.

19.8.2 Further, the financial liabilities of the shareholder(s) of each Party to this Agreement shall be restricted to the extent provided in the Indian Companies Act, 1956 / Companies Act, 2013 (as the case may be).

19.9 Taxes and Duties:

19.9.1 The TSP shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/levied on the TSP, its Contractors or their employees that are required to be paid by the TSP as per the Law in relation to the execution of the Project and for providing Transmission Service as per the terms of this Agreement.

19.9.2 The Nodal Agency shall be indemnified and held harmless by the TSP against any claims that may be made against the Nodal Agency in relation to the matters set out in Article 19.9.1.

19.9.3 The Nodal Agency shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the TSP by the Nodal Agency on behalf of TSP or its personnel, provided the TSP has consented in writing to the Nodal Agency for such work, for which consent shall not be unreasonably withheld.

19.10 No Consequential or Indirect Losses

The liability of the TSP shall be limited to that explicitly provided in this Agreement.

Provided that, notwithstanding anything contained in this Agreement, under no event shall the Nodal Agency or the TSP claim from one another any indirect or consequential losses or damages.

19.11 Discretion:

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

19.12 Confidentiality

19.12.1 The Parties undertake to hold in confidence this Agreement and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

a) to their professional advisors;

b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or

c) disclosures required under Law,

without the prior written consent of the other Parties.

Provided that, the TSP agrees and acknowledges that the Nodal Agency, may, at any time, disclose the terms and conditions of the Agreement and the RFP Project Documents to any person, to the extent stipulated under the Law and the Competitive Bidding Guidelines.

19.13 Order of priority in application:

Save as provided in Article 2.5, in case of inconsistencies between the terms and

conditions stipulated in Transmission License issued by the Commission to the TSP, agreement(s) executed between the Parties, applicable Law including rules and regulations framed thereunder, the order of priority as between them shall be the order in which they are placed below:

- terms and conditions of Transmission License;
- applicable Law, rules and regulations framed thereunder;
- this Agreement;
- Agreement(s), if any, under Sharing Regulations.

19.14 Independent Entity:

19.14.1 The TSP shall be an independent entity performing its obligations pursuant to the Agreement.

19.14.2 Subject to the provisions of the Agreement, the TSP shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the TSP or Contractors engaged by the TSP in connection with the performance of the Agreement shall be under the complete control of the TSP and shall not be deemed to be employees, representatives, Contractors of the Nodal Agency and nothing contained in the Agreement or in any agreement or contract awarded by the TSP shall be construed to create any contractual relationship between any such employees, representatives or Contractors and the Nodal Agency.

19.15 Amendments:

19.15.1 This Agreement may only be amended or supplemented by a written agreement between the Parties.

19.16 Waiver:

19.16.1 No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this Agreement shall be effective unless in writing duly executed by an authorised representative of such Party.

19.16.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

19.17 Relationship of the Parties:

This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership or agency or any such other relationship between the Parties or to impose any partnership obligation or liability upon either Party and neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

19.18 Entirety:

19.18.1 This Agreement along with its sections, schedules and appendices is intended by the Parties as the final expression of their agreement and is intended also as a complete and exclusive statement of the terms of their agreement.

19.18.2 Except as provided in this Agreement, all prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement or the provision of Transmission Service under this Agreement to the Nodal Agency by the TSP shall stand superseded and abrogated.

19.19 Notices:

19.19.1 All notices or other communications which are required to be given under this Agreement shall be in writing and in the English language

19.19.2 If to the TSP, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addressee below:

RESONIA LTD.

Address	: RMZ Infinity, 5th Floor, Plot No.15, Phase-IV, Udyog, Vihar, Gurugram-122008, Haryana
Attention	: T. Amarendranath Reddy
Email	: tan.reddy@resonia.com
Fax. No.	:
Telephone No.	: 9310490976

19.19.3 If to the Nodal Agency, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addresses below:

(i) **Central Transmission Utility of India Limited (Nodal Agency)**

Address	: 5th to 10th Floor, IRCON International Tower, Tower No-1, Plot No-16, Sector-32, Gurugram Haryana: 122003
Attention	: Ramachandra, Sr GM
Email	: ramachand@powergrid.in

Fax. No. :
Telephone No. : 9910378128

19.19.4 All notices or communications given by facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.

19.19.5 Any Party may by notice of at least fifteen (15) days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

19.20 Fraudulent and Corrupt Practices

19.20.1 The TSP and its respective officers, employees, agents and advisers shall observe the highest standard of ethics during the subsistence of this Agreement. Notwithstanding anything to the contrary contained in the Agreement, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP, if it determines that the TSP has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the Nodal Agency shall forfeit the Contract Performance Guarantee of the TSP, without prejudice to any other right or remedy that may be available to the Nodal Agency hereunder or subsistence otherwise.

19.20.2 Without prejudice to the rights of the Nodal Agency under Clause 19.20.1 hereinabove and the rights and remedies which the Nodal Agency may have under this Agreement, if a TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of Letter of Intent (hereinafter referred to as LoI) or after the execution of the agreement(s) required under Sharing Regulations, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP. Further, the TSP & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

19.20.3 For the purposes of this Clause 19.20, the following terms shall have the meaning hereinafter respectively assigned to them:

(a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the RFP Project Documents or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the RFP Project Documents, as the case may be, any person in respect of any matter relating to the Project or the LoI or the RFP Project Documents, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

(b)**"fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

(c) **"coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;

(d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

(e) **"restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process;

19.21 Compliance with Law:

Despite anything contained in this Agreement but without prejudice to Article 12, if any provision of this Agreement shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.

IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED BY THEIR DULY AUTHORISED REPRESENTATIVES AS OF THE DATE AND PLACE SET FORTH ABOVE.

1. For and on behalf of TSP

NER EXPANSION TRANSMISSION LIMITED

.....

[Signature, Name, Designation and Address]

2. For and on behalf of **Central Transmission Utility of India Limited (Nodal Agency)**

KAMAL KUMAR JAIN
Senior General Manager
सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

.....

[Signature, Name, Designation and Address]

WITNESSES:

1. For and on behalf of

: **BPC**

DEEPAK KUMAR
DM (PFCCL)

.....

[Signature]

.....

[Insert, Name, Designation and Address of the Witness]

2. For and on behalf of

: **Nodal Agency**

.....

[Signature]

.....

[Insert Name, Designation and Address of the Witness]

DEEPAK KRISHNAN
Chief Manager
सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

NER EXPANSION TRANSMISSION LIMITED

SCHEDULES

Transmission Service Agreement

Schedule: 1

Project Description and Scope of Project

Annexure – A

A. **North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**

i) **Description of the Transmission Scheme:**

Bongaigaon substation is gateway to North Eastern Region (NER) grid as all synchronous interconnections to NER originate from this substation. Bongaigaon substation is a flood affected area and any mishap at the substation could jeopardise power supply situation in NER as all existing ER-NER AC interconnections are only through Bongaigaon substation. Thus, in order to improve reliability and security of power supply to NER, establishment of a 2nd 400 kV AC node for interconnection with National Grid has been planned at Bornagar in Assam. This substation is essential to create an alternative path for ER-NER interconnection.

The Bornagar substation is being initially planned as 400 kV switching station with provision to establish 765 kV and 220 kV levels in future as per system requirements. The substation is planned to be set up through LILO of both circuits of Bongaigaon – Balipara 400 kV D/C (Quad) line and extension of the existing Alipurduar – Bongaigaon 400 kV D/C (Quad) line from Bongaigoan S/s to Bornagar S/s so as to form Alipurduar – Bornagar 400 kV D/C (Quad) line. This would help in enhancing the stability and reliability of the NER grid and creating an alternate ER-NER path.

The subject scheme was agreed in the 32nd Consultation Meeting for Evolving Transmission Schemes in North Eastern Region (CMETS-NER) held on 26-06-2024. The scheme was further deliberated and approved for implementation through TBCB route in the 21st meeting of National Committee on Transmission (NCT) held on 06-08-2024.

NERES-XXV Part-B comprising of *"Conversion of existing 420 kV, 1x63 MVAr fixed line reactor at Bongaigaon (POWERGRID) end in each circuit of Bongaigaon (POWERGRID) – Borngar (ISTS) 400 kV D/C line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS) to Switchable Line Reactor along with implementation of NGR bypass arrangement."* is being taken up by POWERGRID in matching timeframe of NERES-XXV Part-A.

ii) **Detailed Scope of Work: North- Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A**

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km) / Nos.
(a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future) **Additional space for future expansion:** • 6x1500 MVA, 765/400 kV ICTs (19x500 MVA single phase including one spare unit) along with associated ICT bays at both voltage levels • 5x500 MVA, 400/220 kV ICTs along with associated ICT bays at both voltage levels • 765 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 400 kV line bays (along with space for switchable line reactor) for future lines: 8 Nos. • 220 kV line bays: 10 Nos. • 4x330 MVAr, 765kV Bus Reactors (13x110 MVAr single phase including one spare unit) along with associated bays • 3x125 MVAr, 420 kV Bus Reactors along with associated bays • 765 kV Bus Sectionaliser: 1 set • 400 kV Bus Sectionaliser: 1 set • 220 kV Bus Sectionaliser: 1 set • 220 kV Bus Coupler bays: 2 No. • 220 kV Transfer Bus Coupler bays: 2 No.	• 420 kV, 1x125 MVAr Bus Reactor: 2 Nos. • 400 kV bus reactor bays: 2 Nos. • 400 kV line bays: i) 2 Nos. each with provision for installation of 1x80 MVAr switchable line reactor [for termination of Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s] ii) 2 Nos. [for termination of Bongaigaon (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)] iii) 2 Nos. each with provision for installation of 1x63 MVAr switchable line reactor [for termination of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) –

		Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)]
(b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	About 8 km (4 km Loop-in + 4 km Loop-out)
(c)	#Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	About 110 km additional line section
(d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	• 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x80 MVAr - 2 Nos.
(e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line	• 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) - 2 Nos. • Switching equipment for switchable line reactor of 420 kV, 1x63 MVAr - 2 Nos.

Note:

(i) *#Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C*

(Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

(ii) *The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.*

Annexure - C

LOCATION DETAILS OF EXISTING SUBSTATIONS

Bornagar (ISTS) S/s: New substation is to be implemented under present scheme.

Annexure – D

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations/ guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable.

A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.

A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring the reliability of the line, if so desired and /or deemed necessary.

A.4.0 Transmission line shall be designed considering wind zones as specified in the wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of High Intensity Winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and

wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring the reliability of the line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, the higher of the two wind zones shall be considered for design of towers located in such sections.

A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

A.6.0 (A) Under crossing of the existing transmission line of same Voltage shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.

(B) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

(C) For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

(D) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

(E) For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.

A.7.0 The relevant conductor configuration shall be as follows: -

Name of line: (i) Alipurduar (Powergrid) - Bornagar (ISTS) 400 kV D/C (Quad) line

(ii) LILO of both ckt of existing Bongaigaon (Powergrid) - Balipara (Powergrid) 400 kV D/C (Quad) Line at Bornagar (ISTS)

Type of conductor: ACSR / AAAC / AL59

Basic parameters:

NER EXPANSION TRANSMISSION LIMITED

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
400 kV D/C (Quad Moose) Transmission Lines	**Moose: Stranding** 54/3.53 mm-Al + 7/3.53 mm-Steel, 31.77 mm diameter 528.5 mm^2, Aluminium area, Maximum DC Resistance at 20°C (Ω/km): 0.05552 Minimum UTS: 161.20 kN	**Stranding details:** 61/3.55 mm 31.95 mm diameter; 604 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.05506 Minimum UTS: 159.80 kN	**Stranding details:** 61/3.31 mm 29.79 mm diameter; 525 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.0566 Minimum UTS: 124.70 kN	457 mm

Note:

1. **To select any size above the minimum, the sizes mentioned in the Indian standard i.e IS-398 (part-6) should be followed.*
2. *The transmission lines shall have to be designed for a maximum operatingconductor temperature of 85 ^{O}C.*

A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV line shall be governed by the tower design as well as minimum live metal clearances for 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m.

A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

Minimum live metal clearances for 400 kV line:

a) (i) Under stationary conditions:

From tower body: 3.05 m

(ii) Under Swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22º)	3.05 m
b) Swing angle (44º)	1.86 m

b) Minimum ground clearance: 8.84 m

c) Minimum mid span separation between earthwire and conductor: 9.0 m

A.10.0 Shielding angle shall not exceed 20 deg for 400 kV transmission line.

A.11.0 The Fault current for design of line shall be 63 kA for 1 sec for 400 kV.

A.12.0 In case of 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.

A.13.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance at tension tower for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line. In order to optimize the route, use of GATISHAKTI platform shall also be made.

A.16.0 Wherever, transmission lines are passing through cyclone prone areas i.e., areas up to 60 km from coast following shall also be applicable:

NER EXPANSION TRANSMISSION LIMITED

a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction, which also includes open sea coasts, open stretch of water, desert and flat treeless plains.

b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.

c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.17.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m^2 of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m^2 of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.

b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m^3

c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).

d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.

e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL.

A.18.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on

locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

A.19.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State Transmission Utilities/Central Transmission Utility passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

A.20.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

A.21.0 Safety precautions in regard to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

A.22.0 The stringing of the transmission line in forest area shall be carried out through drone.

NER EXPANSION TRANSMISSION LIMITED

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed **400 kV substation Bornagar (ISTS)** shall be conventional AIS type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time.

Other CEA Regulations/guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

B.1.0 Salient features of Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

B.1.1 Insulation Coordination

The system design parameters for substations/switchyards shall be as given below:

Sl No.	Description of parameters	400 kV Bornagar (ISTS) S/s
		400 kV System
1.	System Operating Voltage	400 kV
2.	Maximum voltage of the system (rms)	420 kV
3.	Rated frequency	50 Hz
4.	No. of Phases	3
5.	Rated Insulation levels	
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	1425 kVp 1550 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1050 kVp
iii)	One-minute power frequency dry withstand voltage (rms)	630 kV
6.	Corona Extinction Voltage	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	13020 mm (31 mm/kV)

Sl No.	Description of parameters	400 kV Bornagar (ISTS) S/s
		400 kV System
9.	Minimum creepage distance for switchyard equipment	10500 mm (25 mm/kV)
10.	Max. Fault Current	63 kA
11.	Duration of Fault	1 Sec

B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	765 kV side (Future)	**400 kV side**	220 kV side (Future)
400 kV Bornagar (ISTS) S/s	One and Half breaker	**One and Half breaker**	Double Main and Transfer

Notes: -

i) At 400 kV voltage level, any double circuit line consisting of two numbers of feeders and originating from a transmission or generating switchyard shall not be terminated in one diameter.

ii) Two bus reactors of the same HV rating shall also not be connected in the same diameter.

iii) A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.

iv) TSP shall plan distribution of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing the thermal limit at any point of bus bar.

v) Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.

B.2.0 Substation Equipment and facilities (Voltage level as applicable):

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following minimum capacity.

Sl. No.	Description of bay	400 kV Bornagar (ISTS) S/s
1.	Bus Bar	4000 A
2.	Line bay	3150 A
3.	Bus Reactor Bay	3150 A
4.	Switched Line Reactor Bay	3150 A

B.2.1 420 kV, 3-phase, Shunt Reactor

125 MVAr, 80 MVAr and 63 MVAr, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)", as amended up to date, available on CEA's website.

Neutral Grounding Reactor and Surge Arrester for 400 kV Switchable Line Reactors:

The neutral of the switchable line reactors (wherever provided) shall be grounded through adequately rated Neutral Grounding Reactors (NGR) to facilitate single phase auto-reclosure, provided that the NGR shall be provided with suitable bypass arrangement so that the switchable line reactor can be used as bus reactor as and when required. The neutral of bus reactor shall be solidly grounded.

NGR shall be oil filled or dry type air core for outdoor application. NGR shall conform to CEA's "Standard Specifications and Technical Parameters of Transformers and Reactors (66 kV and above Voltage Class)", as amended up to date. Technical parameters of NGR shall be as specified in Annexure-A of above-mentioned document.

The surge arresters (rated voltage of arrester in co-ordination with ohmic value of NGR shall be decided by the TSP) shall be provided and physically located between the neutral of shunt reactor (brought out at 145 kV class bushing) and neutral grounding reactor. The surge arresters shall be of Station Medium (SM) class duty gapless Metal Oxide (ZnO) type conforming in general to IEC-60099-4. The Surge Arresters shall be hermetically sealed units, of self-supporting construction, suitable for mounting on structures.

The Ohmic value of NGR for Line Reactors shall be as follows:

S. No.	Line Name	NGR Value
1.	Installation of 420 kV, 1x80 MVAr switchable line reactor at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) –	500 Ohm

	Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	
2.	Installation of 420 kV, 1x63 MVAr switchable line reactor at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line	400 ohm

B.2.2 400 kV AIS Substation equipment

B.2.2.1 Circuit Breakers (AIS)

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF6 Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 400 kV circuit breakers. 400 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits, which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to achieve without use of opening resistors. The controlled switching device shall be provided in Circuit breakers of switchable line reactor and in Main and Tie circuit breakers of line with non-switchable line reactors, bus reactors and Transformers of voltage class 400 kV and above.

B.2.2.2 Isolators (AIS)

The solators shall comply with IEC 62271-102 in general. The 400 kV isolators shall be double break type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV shall be of extended mechanical endurance class - M2. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. The 400 kV earth switches for line isolator shall be suitable for induced current switching duty as defined for Class-B.

B.2.2.3 Current Transformers (AIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 400 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for the protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than five (5) for CTs up to 400 kV voltage class.

B.2.2.4 Capacitive Voltage Transformers (AIS)

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.2.5 Surge Arresters (AIS)

336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV systems. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactor so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.3 Protection Relaying and Control System

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

a. Transmission Lines Protection

The 400 kV shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. The 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of the same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential Relay (with back up distance protection feature) as Main–I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. The associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For the 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

b. 400 kV Reactor Protection

Reactor shall be provided with the following protections:

NER EXPANSION TRANSMISSION LIMITED

i) Numerical Differential Protection.

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

c. Bus Bar Protection

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 400 kV buses. Duplicated bus bar protection is envisaged for 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as future bays envisaged i.e. input / output modules for future bays for the bus section under present scope and PUs shall also be provided by the respective bay owners.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

d. Local Breaker Back up Protection

This shall be provided for each 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

Notes:

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

B.2.4 Substation Automation System

a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation System, where the controls shall be provided through Bay Control Units. The Bay Control Unit is to be provided bay wise for voltage level 400 kV and above. All Bay Control Units as well as protection units are normally connected through an Optical fiber high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System (SAS).

At new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In the existing substations with Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under present scope.

In the existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real time grid operation. Accordingly, all the hardware for communication services of the station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

b) **Time Synchronization Equipment**

Time Synchronization Equipment complete in all respect including antenna, cable, processing equipment required to receive time signal through GPS or from National

Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

B.3.0 Substation Support facilities

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and would be extended/ augmented as per requirement.

B.3.1 AC and DC power supplies

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged: -

i) For LT Supply at each new Substation, two (2) Nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.

For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

(a) 415 V Main Switch board – 1 No.
(b) AC distribution board – 1 No.
(c) Main lighting distribution board – 1No.
(d) Emergency lighting distribution board – 1 No.
(e) 220 Volt DC distribution board – 2 Nos.
(f) 48 Volt DC distribution board – 2 Nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC and DC distribution boards shall have equipped modules for all the feeders (including future as specified).

iv) At new Substation, one No. of DG set (minimum 500 kVA for substations with highest voltage rating as 765 kV) shall be provided for emergency applications.
v) For substation extensions, existing facilities shall be augmented as required.

B.3.2 Fire Fighting System

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

B.3.3 Oil evacuating, Filtering, Testing and Filling apparatus

To monitor the quality of oil for satisfactory performance of transformers, shunt reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

B.3.4 Illumination

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaires.

B.3.5 Control Room

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) alongwith its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays also.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

B.3.6 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

B.3.7 Visual Monitoring System (VMS) for watch and ward of substation premises:

Visual Monitoring System for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the Visual Monitoring System if available shall be augmented as per existing or better specification as required.

B.4 General Facilities

a) Line Gantry/Towers are envisaged for bays under the present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors for 765 kV and 400 kV future lines and Twin conductor for 220 kV future lines) wherever applicable.

b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.

c) TSP has to arrange for construction power and water on its own.

d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 gm/m^2 and 900 gm/m^2 for coastal/creek regions (if applicable).

e) In 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future bay shall be designed considering the current rating of line bay i.e. 3150 A.

f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of the complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from Finished Ground Level (FGL).

g) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above HFL, it shall be ensured that there is no seepage or leakage or logging of water.

h) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and CEA Manual on Transmissions Planning criteria 2023, line approaching substation shall normally be perpendicular to the substation

boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

B.5 EXTENSION OF EXISTING SUBSTATION

Bidder is also advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage etc. and also the design philosophy.

Annexure – F

SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, CEA (Cyber Security in Power Sector) Guidelines, 2021 and CERC Guidelines on "Interface Requirements" 2024 all above documents as amended from time to time.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

The communication services viz. SCADA, VoIP, PMU, AGC and AMR (wherever applicable) have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide following requirements:

C.1.0 Establishment of new 400 kV Bornagar(ISTS) switching station in Assam (765 kV and 220 kV levels to be established in future).

i) TSP shall supply, install and commission minimum 1 No. FODP (240 F or higher) along with panel and Approach Cables (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room for all the incoming lines envisaged under the present scope.

ii) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment along with panel/s supporting minimum five directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any) at Bornagar S/s. Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement between Bornagar to repeater station/ Balipara S/s, Bornagar to repeater station/Bongaigaon S/s and Bornagar to repeater station /Alipurduar S/s. The suitable DC Power Supply and backup to be provided for communication equipment.

iii) FODP and FOTE equipment with panels shall be provided in Control Room of New Bornagar S/s. FOTE and FODP can be accommodated in same panel to optimize space.

iv) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.

v) TSP shall supply, install and commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.

vi) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMUs, DCPS along with Battery Bank and Firewall shall be the responsibility of TSP.

C.2.0 LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS)

On LILO of both circuits of Balipara (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C line at Bornagar(ISTS), TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:

i. For Multi Circuit Tower Configuration: Two (2) No. OPGW cable containing 48 Fibres (48F) each on both the Earthwire peaks.

ii. For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) No. OPGW cable containing 48 Fibres (48F) to be installed by TSP on one earthwire peak and conventional earthwire on other earthwire peak for both Loop In and Loop Out Lines.

Proposed OPGW Hardware, Joint Box and other accessories shall be as per 48 Fiber OPGW.

The TSP shall install OPGW cables from gantry of Bornagar S/s up to the LILO tower with all associated hardware including Vibration Dampers, LILO tower, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at Bornagar. TSP to also provide suitable optical interfaces/equipment at Balipara, Bongaigaon station FOTE to meet link budget requirement for connectivity with Bornagar Station if required. The transmission line length of LILO portion is 08 kms (approx.), if after survey additional repeater required to meet the link budget requirement of Balipara -Bornagar and Bornagar-Bongaigaon link the same shall be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further, TSP shall comply with the repeater requirements mentioned as per Appendix-F.1.

Maintenance of OPGW Cable and **OPGW Hardware** shall be responsibility of TSP.

C.3.0 Disconnection of Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV D/C (quad) line.

TSP shall supply, install and commission One (1) No. OPGW cable containing 24 Fibres (24F) on one E/W peak from disconnection point tower of existing Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line to the gantry of 400 kV Bornagar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Bornagar Substation. The TSP shall integrate this newly laid OPGW with existing OPGW at disconnection point to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV OPGW link. The Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV transmission line length is approx. 216 km however after survey line length may exceed from 216 km. To meet link budget requirement of Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV link (including service loops and sag etc.) repeater may be required to be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply with the requirements mentioned as per Appendix-F.1.

During disconnection of Alipurduar (POWERGRID)-Bongaigaon (POWERGRID) 400 kV D/C (quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID)-Bornagar (ISTS) 400 kV D/C (quad) line, connectivity of all existing operational communication links through Bongaigaon has to be ensured by TSP. For the same TSP shall coordinate with regional ULDC team and provide required (if any) FOTE/interfaces/approach cables/patch chords etc. at Alipurduar, Bornagar and Bongaigaon to form Alipurduar-Bornagar-Bongaigaon link.

Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP. OPGW requirement on extended line shall be of same OPGW fiber capacity of existing line.

C.4.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) at all the locations under the scope of TSP under this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any), and all the other applicable Regulations, Standards, Guidelines issued time to time. The signal list shall be as per the Annexure-I Part-B of CERC Guidelines on "Interface Requirements" 2024. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

Appendix-F.1

Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

  TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment

  TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

  OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable/UGFO to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

  OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings to establish connectivity up to the location of repeater shelter.

  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

  Maintenance of OPGW Cable and OPGW Hardware, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), PMUs, Voice etc. for smooth operation and monitoring of new added grid elements.

Annexure-F.1

Next Generation Firewall (NGFW)

TSP shall provide 2 Nos. Next Generation Firewalls (NGFW); one No. Main and one No. Standby mode having electrical ethernet interfaces/ports and placed between FOTE and SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

Minimum 16 Nos. of ports/interfaces in each firewall (i.e. Main and Standby). TSP can use either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

Annexure F.2

Specifications of Next Generation Firewall (NGFW)

1. NGFW shall have following features including but not limited to:

   Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) and Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) and Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.

2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP and UDP packets. It shall have the provision to define application control list based on application group and/or list.

3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching

4. Firewall shall have Management Console port to configure remotely.

5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.

6. Firewall shall be rack mounted in existing standard equipment cabinets.

7. Firewall shall have support of SCADA applications (IEC-60870-5-104), ICCP, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.

8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux and Mac.

9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.

10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance. Firewall shall have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.

11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.

12. Firewall shall have the capability to configure sufficient number of VLANs.

13. Firewall shall have the capability to support sufficient number of sessions.

14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 Nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPSec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPSec VPN throughput shall support at least 300 Mbps

15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security

16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.

17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality

18. Shall support simultaneous operation with both IPv4 and IPv6 traffic

19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization

20. Firewall shall have the features of port as well as MAC based security

21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.

22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.

23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

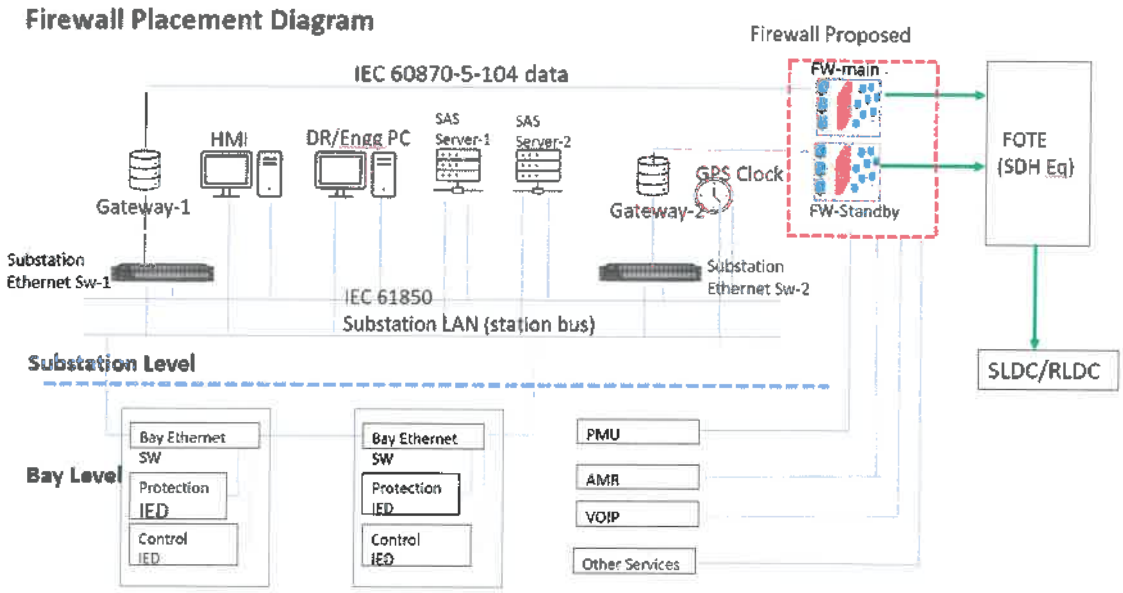
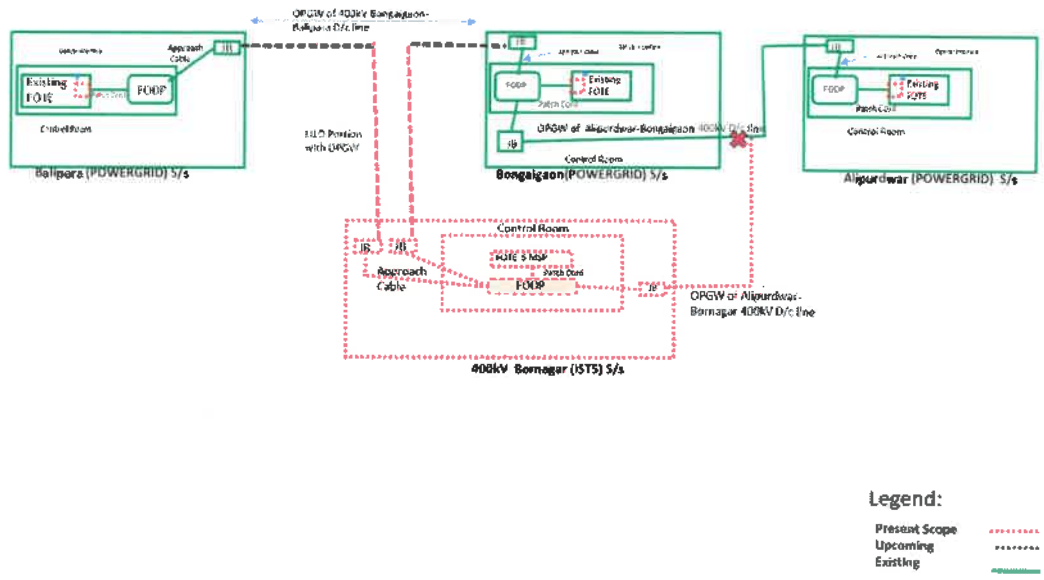


Figure F.2

Proposed Communication for North Eastern Region Expansion Scheme-XXV Part-A



Legend:

Present Scope
Upcoming
Existing

C.5.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling Filters, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.

- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centers (RLDC/SLDC) etc.

- Coupling devices shall be suitable for phase to phase coupling for 765 kV and 400 kV Transmission lines. The pass band of coupling devices shall have sufficient marginfor adding communication channel in future if required. Necessary protection devicesfor safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.

- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in caseof extreme frequency congestion.

- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.

- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one setof Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP.

- TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).

- TSP shall provide new set of PLCC as per following configuration:

Sl. No.	Line Section	PLCC configuration
1.	400 kV Alipurduar (Powergrid) - Bornagar (ISTS) D/C Line	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.
2.	400 kV Bongaigaon (Powergrid) - Bornagar (ISTS) D/C line [after LILO]	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.
3.	400 kV Bornagar (ISTS) - Balipara (Powergrid) D/C line [after LILO]	1 set Analog PLCC and 1 set Digital Protection Coupler for each circuit at both ends.

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.

Annexure – G

SPECIFIC TECHNICAL REQUIREMENTS FOR INTEGRATION OF COMMUNICATION EQUIPMENT WITH REGIONAL LEVEL NMS / REGIONAL UNMS:

The new communication equipment/ system for all the substations under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment at the station end shall be the responsibility of TSP as per **Annexure G.1**. The configuration work in the existing centralized NMS/ CSMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Annexure G.1

Requirement for integration of Communication Equipment with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory – Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance- real time and periodic, Performance KPI parameters (E-1, STM, Ethernet) , Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1 , STM, Ethernet , TX and RS Trace, loop back and details are published in the NBI guide for the configuration parameters.
2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files/ etc. for onward integration of their NMS/EMS/NE with regional UNMS.
3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:

    - Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
    - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
    - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual.

Annexure-H

Frequently Asked Queries:

1.0 Transmission Line:

1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

Reply: Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as the shutdown of ISTS lines is concerned the same can be availed by approaching the respective Regional Power Committee.

1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

Reply: It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

Reply: Power line crossing including Diamond configuration is the responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

Reply: Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest

stretches as provided in the survey report and also for any forest area encountered during detailed survey.

1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide the type of insulator along with creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

Reply: The minimum specific creepage distances shall be decided for the pollution condition in the area of installation. It shall be as per CEA regulations and relevant standards.

2.0 Substation

2.1 We understand that space for storage of O&M spare shall be provided by the existing owner within the station boundary without any cost. Kindly confirm.

Reply: Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

Reply: Operation and maintenance of the bays is solely the responsibility of the TSP. Further, Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understating between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023. 2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

(a) We assumed internal road is available and need not to consider in the present scope of work.

(b) Drainage is available and need not to consider in the present scope of work.

(c) Cable trench extension in adjacent to the Main cable trench only under present scope of work.

(d) Levelled area being provided by developer for bay extension.

Reply: Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

Reply: Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

Reply: It will be on a chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

Reply: VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by the respective substation owner for construction of new bays.

Reply: Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that the existing fire hydrant system shall be extended by the TSP for bay extension.

Reply: Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify the Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

Reply: The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT is required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

Reply: Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class matches with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.

Reply: Web page link https://www.ctuil.in/formats_gna_transition

2.12 Please clarify whether the spare 765kV single phase Reactor unit for Bus reactor shall be

provided with 1ph 765 kV CB.

Reply: As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765kV CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

2.13 It is understood that existing busbar protection has provision for future bays and also PUs is available for future bays. BPC to confirm availability of CU and PU for bays under present scope of work at existing substations. BPC may kindly confirm availability of communication ports for integrating new PUs with the existing CUs at existing substations.

Reply: Bus Bar Protection with Central Unit (CU) is required for the new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.

Reply: Necessary process I/O along with license shall be in the scope of the successful bidder.

2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

Reply: Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm.It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

Reply: PLCC for 220 kV line is in the scope of developer of the line. Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.

Reply: Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, the control room shall be augmented as per requirement.

3.0 Communication

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

Reply: User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

Reply: The space related issues are deliberated in the RFP itself. TSP to install FOTE/FODP panels in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kisok/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete the communication path upto RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x48F OPGW shall be required to install by TSP on both earthwire peak on 400 kV & 765 kV lines where two E/W peaks are available. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 96F OPGW.

Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x48F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on

second earthwire peak, on both Line In and Line Out portion towers of 400 kV & 765 kV lines. On 220 &132 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW in place of conventional earthwire

3.4 How is the OPGW laying done in the case of Multi circuit Towers?

Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 48F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV & 400 kV lines.

Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no 96F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

Reply: PMU data of new bays to be provided in the ethernet port of switch at control room and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fibre Optic cable

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

Reply: The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of substation for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

Reply: Tentative Location of LILO point shall be as per survey report of BPC however exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

Reply: All OPGW (alongwith optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

Reply: TSP to provide PMUs for all bays under their scope of RFP.

4.0 Planning :

4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.?

Reply: Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.

Schedule: 2

Scheduled COD

[Note: As referred to in the definition of "Element", "Scheduled COD", and in Articles 3.1.3 (c), 4.1 (b) and 4.3 (a) of this Agreement]

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective element
a)	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	36 months from effective date (23.07.2028)	100 %	All elements at Sl. No. a), b), c), d), and e) are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
b)	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)			
c)	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line			
d)	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed			

	after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s			
e)	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line			

Schedule: 3

Safety Rules and Procedures

[Note: As referred to in Articles 5.6 of this Agreement]

1: **Site Regulations and Safety:**

The TSP shall establish Site regulations within sixty (60) days from fulfilment of conditions subsequent, as per Prudent Utility Practices setting out the rules to be observed till expiry of the Agreement at the Site and shall comply therewith.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Project, gate control, sanitation, medical care, and fire prevention, public health, environment protection, security of public life, etc.

Copies of such Site regulations shall be provided to the Nodal Agency and the CEA for the purpose of monitoring of the Project.

2: **Emergency Work:**

In cases of any emergency, the TSP shall carry out all necessary remedial work as may be necessary.

If the work done or caused to be done by any entity, other than the TSP, the TSP shall, reimburse the actual costs incurred, to the other Party carrying out such remedial works.

3: **Site Clearance:**

In the course of execution of the Agreement, the TSP shall keep the Site reasonably free from all unnecessary obstruction, storage, remove any surplus materials, clear away any wreckage, rubbish and temporary works from the Site, and remove any equipment no longer required for execution of the Agreement. After completion of all Elements of the Project, the TSP shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site clean and safe.

4: **Watching and Lighting:**

The TSP shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper construction, operation, maintenance / repair of any of the Elements of the Project, or for the safety of the owners and occupiers of adjacent property and for the safety of the public, during such maintenance / repair.

Schedule: 4

Computation of Transmission Charges

1.1 General

The Monthly Transmission Charges to be paid to the TSP for providing Transmission Service for any Contract Year during the term of the Agreement shall be computed in accordance with this Schedule and paid as per Sharing Regulations.

Illustration regarding payment of Transmission Charges under various scenarios (considering definitions of Contract Year, Expiry Date & Monthly Transmission Charges above) is as below: -

Illustration-1: In case the Project Elements achieve COD as per Schedule

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	28	1-Feb-2018	1-Feb-2018	25%
Element 2	38	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	140 X 25% X ((28+31)/365)	5.65		--	0.00
1-Apr-18 to 30-Nov-18	140 X 25% X (244/365)	23.39		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-2: In case of extension of Scheduled COD as per Article 4.4.1 & 4.4.2 of this Agreement

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-3: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year 1)

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Dec-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Sept-18	--	0.00		--	0.00
1-Oct-18 to 30-Nov-18	--	0.00	1-Oct-18 to 30-Nov-18	--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-4: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year other than Contact Year 1)

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-May-2020	25%
Element 2	38	1-Oct-2019	1-May-2020	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Oct-19 to 31-Mar-20	--	0.00	1-Oct-19 to 31-Mar-20	--	0.00
1-Apr-20 to 30-Apr-20	-	0.00	1-Apr-20 to 30-Apr-20	-	0.00
1-May-20 to 31-Mar-21	140 X 100% X (335/365)				128.49
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Apr)	140 X 100% X (30/ 365)				11.51

Illustration5: In case of delay in achieving COD of Element but Project COD achieved on time

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	30	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-6: In case of early commissioning of Project

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Jul-2019	25%
Element 2	38	1-Oct-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1		**Transmission Charges for Element 2**
1-July-19 to 31-Mar-20	140 X 100% X (274/365)	105.09
2	140 X 100% X 1	140
3	140 X 100% X 1	140
4	140 X 100% X 1	140
5	140 X 100% X 1	140
.....		
.....		
36 (1-Apr to 30-Jun)	140 X 100% X (91/365)	34.91

Illustration-7: In case of early commissioning of an element

Quoted Transmission Charges: **Rs. 140 Million**
Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Apr-2019	25%
Element 2	38	1-Jul-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Apr-2019 to 30-Jun-19	140 X 25% X (91/365)	8.72	1-Apr-2019 to 30-Jun-19	--	0.00
1-July-19 to 31-Mar-20	140 X 100% X (274/ 365)				105.09
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr-30-Jun)	140 X 100% X (91/365)				34.91

The Transmission Charges shall be payable on monthly basis as computed above.

1.2 Computation of Monthly Transmission Charges

The Monthly Transmission Charges for any month m in a Contract Year n shall be calculated as below:

For AC System:

a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 98% and less than or equal to 98.5%;

Monthly Transmission Charges MTC(m) = Tmn *1

a. If Actual Transmission System Availability for the month m of contract year n exceeds 98.5% and less than or equal to 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98.5%)

c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (99.75% / 98.5%)

d. If Actual Transmission System Availability for the month m of contract year n is less than 98%and greater than or equal to 95.00%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98%)

e. If Actual Transmission System Availability for the month m of contract year falls below 95%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98%) - 0.02 * (Tmn * (AA/ 95%)

For DC System:

a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 95% and less than or equal to 96%;

Monthly Transmission Charges MTC(m) = Tmn *1

b. If Actual Transmission System Availability for the month m of contract year n exceeds 96% and less than or equal to 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 96%)

c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (99.75% / 96%)

d. If Actual Transmission System Availability for the month m of contract year n is less than 95% and greater than or equal to 92.00%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 95%)

e. If Actual Transmission System Availability for the month m of contract year falls below 92%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 95%) - 0.02 * (Tmn * (AA/ 92%)

where:

- AA is the actual Availability, as certified by RPC, as per procedure provided in Schedule 6.
- m is the month in Contract Year 'n'
- Tmn= Transmission Charges for the month 'm' in Contract Year 'n' = (=Transmission Charge/ no. of days in the Year n)* no. of days in month m

NER EXPANSION TRANSMISSION LIMITED

Provided, no Transmission Charges shall be paid during the period for which the RLDC has not allowed the operation of the Element/Project due to the failure of the TSP to operate it as per the provisions of the Grid Code.

1.3 RLDC Fee & Charges

The payment of RLDC fee & charges, in accordance with relevant regulations of CERC, shall be the responsibility of the TSP.

Schedule: 5

Quoted Transmission Charges

[Quoted Transmission Charges from Annexure - 21 of the RFP of the Selected Bidder to be inserted here]

[To be incorporated from the Bid of the Selected Bidder submitted during the e-reverse auction after its selection]

Quoted Transmission Charges: Rs. 1894.40 Million Per Annum

Proportionate Transmission Charges payable for each Element of the Project:

Sl. No.	Name of the Transmission Element	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project
1.	Establishment of new 400 kV Bornagar (ISTS) switching station in Assam (765kV and 220 kV levels to be established in future	100%
2.	LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line at Bornagar (ISTS)	
3.	Disconnection of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end and extension of the line for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line	
4.	Installation of 420 kV, 1x80 MVAr switchable line reactor (along with 500 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Alipurduar (POWERGRID) – Bornagar 400 kV D/C (Quad) line formed after shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line from Bongaigaon (POWERGRID) end to Bornagar (ISTS) S/s	
5.	Installation of 420 kV, 1x63 MVAr switchable line reactor (along with 400 ohm NGR and NGR bypass arrangement) at Bornagar (ISTS) end in each circuit of Bornagar (ISTS) – Balipara (POWERGRID) 400 kV D/C (Quad) line formed after LILO of both circuits of existing Bongaigaon (POWERGRID) – Balipara (POWERGRID) 400 kV D/C (Quad) line	

Note:

(iii) #Siliguri (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line was implemented by M/s East North Interconnection Company Limited (M/s ENICL, SPV of M/s Sterlite). Line bays at both ends were implemented by POWERGRID. Further, this line was LILOed at Alipurduar (POWERGRID) S/s by POWERGRID along with implementation of line bays for termination of line, resulting in formation of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line. The Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) 400 kV D/C (Quad) line (partly owned by M/s ENICL and partly by POWERGRID) is to be disconnected from Bongaigaon (POWERGRID) end and extended for termination at Bornagar (ISTS) S/s so as to form Alipurduar (POWERGRID) – Bornagar (ISTS) 400 kV D/C (Quad) line. Upon shifting of line, the line section left unutilised at Bongaigaon (POWERGRID) end needs to be kept anti-theft charged so that the same can be used in future for termination of new line. Further, upon shifting of Alipurduar (POWERGRID) – Bongaigaon (POWERGRID) line from Bongaigaon (POWERGRID) S/s to Bornagar (ISTS) S/s, connectivity of all operational communication links through Bongaigaon has to be ensured. For the same additional OPGW and FOTE needs to be planned as per requirement. ISTS licensee implementing the NERES-XXV Part-A scheme needs to coordinate with M/s ENICL for line shifting and keeping the unutilised line section at Bongaigaon (POWERGRID) end anti-theft charged.

(iv) The line lengths mentioned above are approximate as the exact line length shall be obtained after the detailed survey.

NER EXPANSION TRANSMISSION LIMITED

Schedule: 6

Appendix –IV to Central Electricity Regulatory Commission

(Terms and Conditions of Tariff) Regulations, 2024

Procedure for Calculation of Transmission System Availability Factor for a Month

1. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.

2. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by considering the following:

   i) **AC transmission lines**: Each circuit of AC transmission line shall be considered as one element;

   ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single- phase transformers together) shall form one element;

   iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;

   iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;

   v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;

   vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;

   vii) **Static Synchronous Compensation ("STATCOM"):** Each STATCOM shall be considered as a separate element.

3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated

by considering each category of transmission elements as under:

TAFPn (in %) for AC system:

$$= \frac{(o \times AVo)+(p \times AVp) + (q \times AVq) + (r \times AVr)+(u \times AVu)}{(o + p + q + r+u)} \times 100$$

Where,

o	=	Total number of AC lines.
AVo	=	Availability of o number of AC lines
p	=	Total number of bus reactors/switchable line reactors
AVp	=	Availability of p number of bus reactors/switchable line reactors
q1	=	Total number of ICTs
AVq	=	Availability of q number of ICTs
r	=	Total number of SVCs
AVr	=	Availability of r number of SVCs
u	=	Total number of STATCOM
AVu	=	Availability of u number of STATCOM

TAFMn (in %) for HVDC System:

$$= \frac{\sum_{x=1}^{s} Cxbp\,(act) \times AVxbp + \sum_{y=1}^{t} Cy\,(act)bth \times AVybtb}{\sum_{x=1}^{s} Cxbp + \sum_{y=1}^{t} Cybtb} \times 100$$

4. The availability for each category of transmission elements shall be calculated based on

Where

Cxbp(act)	=	Total actual operated capacity of x^{th} HVDC pole
Cxbp	=	Total rated capacity of x^{th} HVDC pole
AVxbp	=	Availability of x^{th} HVDC pole
Cybtb(act)	=	Total actual operated capacity of y^{th} HVDC back-to-back station block
Cybtb	=	Total rated capacity of y^{th} HVDC back-to-back station block
AVybtb	=	Availability of y^{th} HVDC back-to-back station block
s	=	Total no of HVDC poles
t	=	Total no of HVDC Back to Back blocks

NER EXPANSION TRANSMISSION LIMITED

the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:

(a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;

(b) For each HVDC pole- The rated MW capacity x ckt-km;

(c) For each ICT bank – The rated MVA capacity;

(d) For SVC- The rated MVAR capacity (inductive and capacitive);

(e) For Bus Reactor/switchable line reactors – The rated MVAR capacity;

(f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and

(g) For STATCOM – Total rated MVAR Capacity.

5. The transmission elements under outage due to the following reasons shall be deemed to be available:

i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.

ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.

iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.

Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.

NER EXPANSION TRANSMISSION LIMITED

6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:

   i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;

   ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;

   iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:

      a. Maximum up to one month by the Member Secretary, RPC;

      b. Beyond one month and up to three months after the decision at RPC;

      c. Beyond three months by the Commission for which the transmission license shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.

7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:

- Submission of outage data along with documentary proof (if any) and TAFPn calculation by Transmission Licensees to RLDC/ constituents
  – By the 5th of the following month;
- Review of the outage data by RLDC / constituents and forward the same to respective RPC – by 20th of the month;

NER EXPANSION TRANSMISSION LIMITED

• Issue of availability certificate by respective RPC – by the 3rd of the next month.

Appendix-V

FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY OF TRANSMISSION ELEMENTS

For AC transmission system

AVo(Availability of o no. of AC lines) = $\frac{\sum_{i=1}^{o} Wi(Ti - TNAi)/Ti}{\sum_{i=1}^{o} Wi}$

AVq(Availability of q no. of ICTs) = $\frac{\sum_{k=1}^{q} Wk(Tk - TNAk)/Tk}{\sum_{k=1}^{q} Wk}$

AVr(Availability of r no. of SVCs) = $\frac{\sum_{i=1}^{r=1} Wi(Ti - TNAi)/Ti}{\sum_{i=1}^{r} Wi}$

AVp(Availability of p no. of Switched Bus reactors) = $\frac{\sum_{m=1}^{p} Wm(Tm - TNAm)/Tm}{\sum_{m=1}^{p} Wm}$

AVu(Availability of u no. of STATCOMs) = $\frac{\sum_{n=1}^{u} Wn(Tn - TNAn)/Tn}{\sum_{n=1}^{u} Wn}$

AV_{xbp}(Availability of an individual HVDC pole) = $\frac{(Tx - TN)}{Tx}$

AV_{ybb} (Availability of an individual HVDC Back-to-back Blocks) = $\frac{(Ty - TNAy)}{Ty}$

NER EXPANSION TRANSMISSION LIMITED

For the HVDC transmission system

For the new HVDC commissioned but not completed twelve months:

For first 12 months: [(AV_{xbp} or AV_{ybtb})x95%/85%], subject to a ceiling of 95%.

Where,

o	=	Total number of AC lines;
AVo	=	Availability of o number of AC lines;
p	=	Total number of bus reactors/switchable line reactors;
AVp	=	Availability of p number of bus reactors/switchable line reactors;
q	=	Total number of ICTs;
AVq	=	Availability of q number of ICTs;
r	=	Total number of SVCs;
AVr	=	Availability of r number of SVCs;.
U	=	Total number of STATCOM;
AVu	=	Availability of u number of STATCOMs;
Wi	=	Weightage factor for *i*th transmission line;
Wk	=	Weightage factor for *k*th ICT;
Wl	=	Weightage factor for inductive & capacitive operation of *l*th SVC;
Wm	=	Weightage factor for mth bus reactor;
Wn	=	Weightage factor for nth STATCOM.
Ti, , *Tk*, *Tl*, .		The total hours of i^{th} AC line, k^{th} ICT, l^{th} SVC, m^{th} Switched Bus Reactor
Tm, *Tn*, *Tx*, *Ty*		& n^{th} STATCOM, x^{th} HVDC pole, y^{th} HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)
T_{NAi} ,T_{NAk}		The non-availability hours (excluding the time period for outages not T_{NAl}, T_{NAm}, attributable to transmission licensee taken as deemed availability as T_{NAn}, T_{NAn}, T_{NAX}, T_{NAY} per Para 5 of the procedure) for i^{th} AC line, k^{th} ICT, l^{th} SVC , m^{th} Switched Bus Reactor, n^{th} STATCOM, x^{th} HVDC pole and y^{th}HVDC back-to-back block.

NER EXPANSION TRANSMISSION LIMITED

Schedule: 7

Entire Bid (both financial bid and technical bid) of the Selected Bidder to be attached here

Bid dated 13.02.2025 and 05.03.2025 shall be an integral part of this Agreement.

Schedule: 8

Contract Performance Guarantee

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.)

In consideration of the ..... [Insert name of the SPV or Selected Bidder on behalf of the TSP, or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated .....and the other RFP Project Documents and the Nodal Agency and the PFC Consulting Limited, agreeing to execute the *RFP Project Documents* with the Selected Bidder, regarding setting up the Project, the ..... [Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to ..... (being the Nodal Agency) at .....[Insert the Place from the address of the Nodal Agency indicated in the TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... Crores (Rs. .....) only [Insert the amount of the bank guarantee] on behalf of M/s. ..... [Insert name of the Selected Bidder or SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. ..... Crores (Rs. .....) only. Our Guarantee shall remain in force until ..... [Insert the date of validity of the Guarantee as per Article 0 of this Agreement]. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from ..... (in its roles as the Nodal Agency), made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Insert name of the Selected Bidder], ... [Insert name of the TSP] and / or any other person. The Guarantor Bank shall not require Nodal Agency to justify the

invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

THIS BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

THIS BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

THIS BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against),..... [Insert Name of the SPV] or the Selected Bidder, as the case may be, to make any claim against or any demand on),..... [Insert Name of the SPV] or the Selected Bidder, as the case may be, or to give an`y notice to),..... [Insert Name of the SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against), NER EXPANSION TRANSMISSION LIMITED or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. ..... Crores (Rs. .....) only and it shall remain in force until .....[Date to be inserted on the basis of Article 0of the Transmission Service Agreement], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by ..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

In witness where of:

Signature .....

Name: .....

Power of attorney No.: .....

For:

..... [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

Schedule: 9

Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period

The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under:

$\Delta T = [(P \times d)] \div [1-(1+ d)^{(-n)}]$

Where,

ΔT = Change in Transmission Charges for each year

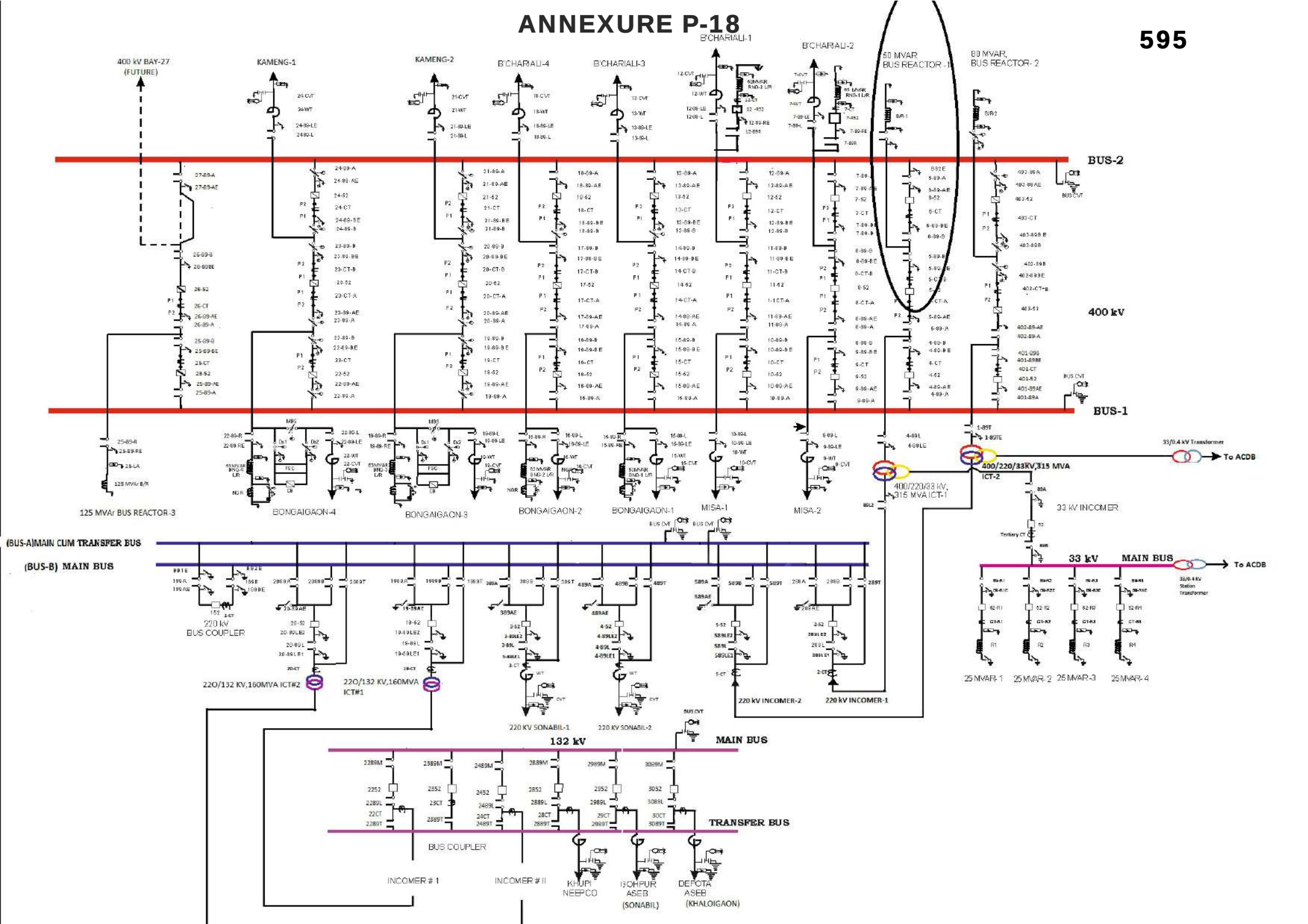
P = Sum of cumulative increase or decrease in the cost of the Project due to Change in Law and interest cost during construction corresponding to the period exceeding one hundred eighty (180) due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days

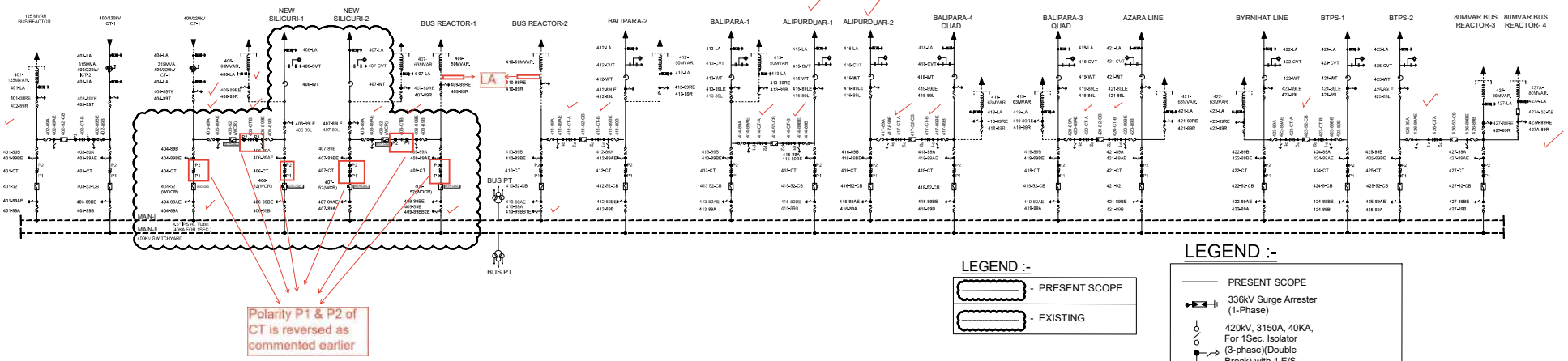
n = number of years over which the Transmission Charges has to be paid

d = Discount rate as notified by the CERC, applicable on the Bid Deadline

The increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero point three percent) of the quoted Transmission Charges of the TSP.

ANNEXURE P-18





LEGEND :-

- PRESENT SCOPE
- EXISTING

LEGEND :-

- PRESENT SCOPE
- 336kV Surge Arrester (1-Phase)
- 420kV, 3150A, 40KA, For 1Sec. Isolator (3-phase)(Double Break) with 1 E/S
- 420kV, 3150A, 40kA, For 1Sec Circuit Breaker (3-Phase) with closing resistor(WCR)
- 420kV, 3150A, 40kA, For 1Sec Circuit Breaker (3-Phase)with out closing resistor(WOCR)
- 420kv,40ka For 1sec.,4400pf, Capacitive Voltage Transformer
- 420kV, 3150A, 40KA,For 1Sec. Isolator (3-phase)(Double Break) with 2 E/S
- 420kV,CURRENT TRANSFORMER
- 420kV,WT

SYSTEM PARAMETER:

SL.NO.	DESCRIPTION OF PARAMETERS	400kV SYSTEM
1	SYSTEM OPERATING VOLTAGE	400kV
2	MAX. OPERATING VOLTAGE OF THE SYSTEM(MS)	420kV
3	RATED FREQUENCY	50Hz.
4	RATED INSULATION LEVEL i) FULL WAVE IMPULSE WITHSTAND VOLTAGE(1.2/50microsec.) ii) SWITCHING IMPULSE WITHSTAND VOLTAGE(250/2500MICROSEC.) DRY & WET iii) ONE MINUT POWER FREQUENCY DRY & WET WITHSTAND VOLTAGE.	 1550kVp 1050kVp 630kV
5	RATED SHORT CIRCUIT CURRENT	40KA FOR 1 Sec
6	SYSTEM NEUTRAL EARTHING	EFFECTIVELY EARTHED

BILL OF QUANTITIES (420KV EQUIPMENTS)

SL.NO.	DESCRIPTION OF PARAMETERS	UNIT	ENGG. QTY	LOA. QTY
1	420kV, 3150A, 40KA, CB(3Ph) with closing resistor & with csd	Sets	4	4
2	420kV, 3150A, 40KA, CB(3Ph) without closing resistor & with csd	Sets	1	2
3	420kV, 3150A, 40kA, CB (3 ph) without closing resistor & without csd	Sets	1	
4	420kv,3000A, CT(1ph)	NOS.	18	18
5	420kv,4400pF,CVT(1ph)	NOS.	6	6
6	420kv,3150,40kA,isolator(3ph)double break isolator with I E/S	Sets	13	13
7	420kv,3150,40kA,isolator(3ph)double break isolator with II E/S	NOS.	1	1
8	336kV surge Arrester(1ph)	NOS.	6	6
9	400kV,3150, 0.5mH, 40kA LINE Trap	NOS.	4	4

NATURE & DISCRIPTION OF REV.	DRN.	CHK	REV.	DATE
AS PER COMMENT	MANPREET	AK.JHA	03	28.08.2021
AS PER COMMENT	MANPREET	AK.JHA	02	19.08.2021
AS PER COMMENT	MANPREET	AK.JHA	01	05.08.2021
AS PER ORDER	MANPREET	AK.JHA	00	21.07.2021

CLIENT:-	POWER GRID CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)
EPC CONTRACTOR:-	SREX POWER INDIA PVT LTD. H-165, SECTOR-63, NOIDA - 201301 (U.P.)
PROJECT:-	Extension of 400kV Bongaigaon Substations Under NERSS-XII
PROJECT NOA:-	CC-CS/1049-NER/SS-4185/3/GA/NOA-II/9177 DATE:-(01.06.2021) CC-CS/1049-NER/SS-4185/3/GA/NOA-II/9178 DATE:-(01.06.2021)
DWG. TITLE:-	BONGAIGAON S/S- SINGLE LINE DIAGRAM

DRAWN	MANPREET	SCALE	NTS
REVIEWED	P.KUMAR	DATE	28.08.2021
CHECKED	AK.JHA	SHEET	01-OF-01
APPROVED	S.S.SINGH	REV.	03
SREX JOB NO.:- X-333	PGCIL DRAWING NO.:- TR202014-1001331-SS1704-400kV-SY-SLD		
	SREX DRAWING NO.:- X-333-BONGAIGAON-S/S-E-D01		

Downloaded on Fri Sep 06 2024 15:08:47 GMT+0530 (India Standard Time) by 60002310

597

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE
2. MINIMUM CLEARANCES ARE AS PER SPECIFICATION :

a) BETWEEN PHASES	400 kV	
	4000 MM	(FOR CONDUCTOR-CONDUCTOR CONFIGURATION)
	4200 MM	(FOR ROD-CONDUCTOR CONFIGURATION)
b) BETWEEN PHASE TO EARTH	3500 MM	
c) SECTIONAL CLEARANCE	6500 MM	
d) VERTICAL DISTANCE BETWEEN LOWEST PART OF THE INSULATOR AND GROUND LEVEL	2350 MM	

3. THE PARAMETERS FOR WHICH THE SYSTEM IS DESIGNED ARE :

a) SYSTEM OPERATING VOLTAGE	400 kV
b) MAXIMUM SYSTEM VOLTAGE (RMS)	420 kV
c) LIGHTING IMPULSE WITHSTAND VOLTAGE (DRY & WET)	±1568 kVP
d) SWITCHING IMPULSE WITHSTAND VOLTAGE	±1050 kVP
e) ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE (DRY & WET)	630 kV (rms)
f) NOMINAL CREEPAGE DISTANCE (25 MM/kV)	10500 MM
g) MAXIMUM FAULT LEVEL	40 kA/1 Sec

4. CONNECTION TYPES : 400 kV SWITCHYARD

	LEVEL FROM PLINTH	CONDUCTOR TYPE
a) MAIN BUS I & II	+15300 MM	QUAD ACSR BERSIMIS
b) IA/CK BUS	+22000 MM	QUAD ACSR MOOSE
c) TRANSFER BUS		
d) EUPT TO EUBP, SGCL-BPI-LA-TRAFO.	+6600 MM +6600 MM	4.5" AL TUBE 4.5" AL TUBE / QUAD / TWIN ACSR MOOSE
e) DROPPERS		QUAD ACSR MOOSE
DROPPERS FOR CVT/LA		TWIN ACSR MOOSE
f) EARTH WIRE	+29500 MM	13.68 MM Ø GS WIRE

5. SUB-CONDUCTOR DETAILS : 400 kV
a) SUB-CONDUCTOR SPACING : 400 MM
6. CONDUCTOR TENSION FOR EARTH WIRE CONSIDERED - 0.8 T
7. PLINTH HEIGHT OF FOUNDATION WILL BE +300 MM FROM THE FINISHED GROUND LEVEL (F.G.L.).
8. THE DIMENSION OF 125 MVAR REACTOR INDICATED IN THIS DRAWING IN TENTATIVE, ACTUAL DIMENSION WILL FURNISHED AFTER RECEIPT OF PROJECT SPECIFIC APPROVED REACTOR DRAWING.
9. FOLLOWING ARE THE LOW LEVEL BPI FOR 400 kV SYSTEM

SL. NO.	ITEM	LOA QTY. (NO.)	ACTUAL QTY. (NO.)
1	400 kV BPI	10	10

SPECIAL NOTE :-

1. CONSTRUCTION OF PIT WALL FOR 125 MVAR REACTOR NEAR TO FIRE WALL SHALL BE CONSTRUCTED AFTER RECEIPT OF PROJECT SPECIFIC FIRE WALL DRAWING FORM PGCIL
2. Construction of firewall shall be done first compare to plinth work area to firewall as the depth of firewall is greater than plinth.

LAYOUT PLAN
(SCALE - 1:750)

VIEW - A
(SCALE - 1:500)

LEGEND :-
- PRESENT SCOPE
- FUTURE / EXISTING

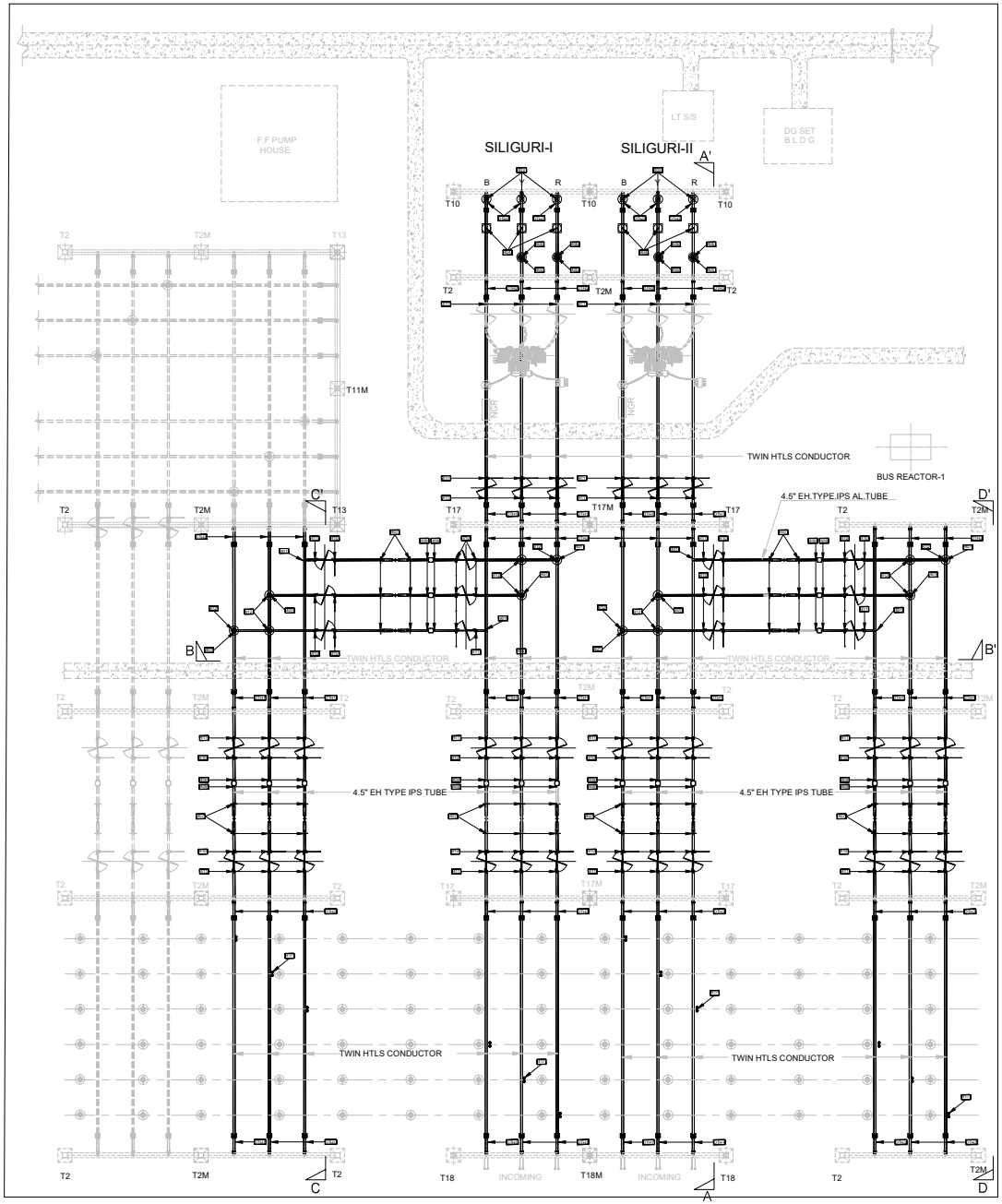
REFERENCE :-
1. SINGLE LINE DIAGRAM 400kV BALIPARA S/S EXTN. DRG NO : CENGG/NERSS-IV/BALI/SLD/01
2. GA AND ELECTRICAL LAYOUT PLAN 400kV BALIPARA S/S EXTN. DRG NO : CENGG/NERSS-IV/BALI/PARA/GA/01
3. FSC ELECTRICAL LAYOUT DRAWING (1) GT1770-AC167-L152-001-05,Rev.3.

SECTION - 'A-A'
(SCALE - 1:250)

REV. NO.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
02	10.04.17	REVISED AS PER PGCIL'S COMMENTS ON SWPL'S PROPOSED DRAWING VIDE MAIL DTD 07.04.17	BN	SPB	SS
01	21.03.16	REVISED AS PER PGCIL'S COMMENTS DTD. 09.03.16	KR	SPB	SS

CATEGORY OF DRAWING	APPROVAL	INFORMATION	RECORD	CONSTRUCTION	REFERENCE
CLIENT		POWERGRID CORPORATION OF INDIA LIMITED (A GOVT. OF INDIA ENTERPRISE)			
CONSULTANT					
CONTRACTOR		STERLING AND WILSON PVT. LTD., KOLKATA			
PROJECT		SUBSTATION PACKAGE (AIS) INCLUDING TRANSFORMER AND REACTOR ASSOCIATED WITH NERSS - IV AND NERSS - VII			

	NAME	SIGN	DATE	400 kV BALIPARA S/S EXTN. ELECTRICAL PLAN LAYOUT AND SECTION		
DRAWN	BN		24.08.16	SCALE - AS NOTED	SHEET	REV.
CHECKED	SPB		24.08.16	CLIENT DRG. NO. : -	1 OF 1	3
APPROVED	SS		24.08.16	CONTRACTOR DRG. NO. : K3166P9004-03-CRG-012	SHEET SIZE - A0	

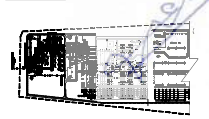


Any additional quantity required for successful completion of work as per technical specification shall be supplied by M/s SREX without any additional cost implication to POWERGRID

BILL OF MATERIAL FOR 400KV ELECTRICAL KEY LINE DIAGRAM
DATED: 20-9-2021

SL NO	DESCRIPTION	TAG NO
A)	CONNECTORS	
1	TEE CONNECTOR TO SUIT SINGLE HTLS CONDUCTOR ON MAIN AND BRANCH WAY AT CVT,WT,BPI & ISOLATOR	401
1a	TEE CONNECTOR TO SUIT 4.5" IPS TUBE ON MAIN AND TWIN HTLS CONDUCTOR ON BRANCH WAY AT CVT	402
2	TERMINAL CONNECTOR FOR 400kV LA SUITABLE FOR 4.5" IPS TUBE, WITH HORIZONTAL APPROACH	403
3	TERMINAL CONNECTOR FOR 400kV CVT SUITABLE FOR 4.5" IPS TUBE, WITH HORIZONTAL APPROACH	404
4	TERMINAL CONNECTOR FOR 400kV WT SUITABLE FOR TWIN HTLS CONDUCTOR, WITH HORIZONTAL APPROACH	405
4a	TERMINAL CONNECTOR FOR 400kV WT SUITABLE FOR TWIN HTLS CONDUCTOR, WITH VERTICAL APPROACH	406
5	EXPANSION TYPE TERMINAL CONNECTOR FOR 400kV CB SUITABLE FOR 4.5" IPS TUBE, WITH HORIZONTAL APPROACH	407
6	EXPANSION TYPE TERMINAL CONNECTOR FOR 400kV CT SUITABLE FOR 4.5" IPS TUBE, WITH HORIZONTAL APPROACH	408
6a	RIGID TYPE TERMINAL CONNECTOR FOR 400kV CT SUITABLE FOR 4.5" IPS TUBE, WITH HORIZONTAL APPROACH	409
7	RIGID TYPE TERMINAL CONNECTOR FOR 400kV ISOLATOR SUITABLE FOR 4.5" IPS TUBE	410
8	TERMINAL CONNECTOR FOR 400kV ISOLATOR SUITABLE FOR TWIN HTLS CONDUCTOR, WITH VERTICAL APPROACH	411
9	RIGID/SLIDING TYPE TERMINAL CONNECTOR FOR 400kV BPI SUITABLE FOR 4.5" IPS TUBE	412
10	PG CLAMPS SUITABLE FOR SINGLE HTLS CONDUCTOR	413
10a	CONNECTOR SUITABLE FOR 4.5" IPS TUBE ON MAIN AND TWIN HTLS CONDUCTOR ON BRANCH WAY AT BPI OF MAIN BUS (GIS)	417
B)	INSULATOR HARDWARE	
a)	DOUBLE TENSION INSULATOR STRING WITH ARCING HORN HARDWARE SUITABLE FOR TWIN HTLS CONDUCTOR	
	i) WITH TURN BUCKLE	DTH1
	ii) WITHOUT TURN BUCKLE	DTH2
11	SINGLE SUSPENSION INSULATOR STRING HARDWARE WITH DROP CLAMP SUITABLE FOR TWIN HTLS CONDUCTOR	SSH1
C)	CLAMPS & CLAMPS FOR 4.5" IPS TUBE & TWIN HTLS CONDUCTOR	
14	FLEXIBLE TYPE SPACERS FOR TWIN HTLS CONDUCTOR	414
14A	RIGID TYPE SPACERS FOR TWIN HTLS CONDUCTOR	415
15	END CAPS FOR 4.5" IPS TUBE	416

KEY PLAN



NOTES:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. TWIN HTLS CONDUCTOR NOT IN M/S SREX SCOPE(SHALL BE SUPPLIED BY OWNER)
3. INCOMING LINE INSULATOR HARDWARE & HTLS CONDUCTOR NOT IN SREX SCOPE

LEGEND:-
PRESENT SCOPE
EXISTING

LEGENDS:-

SR NO.	DESCRIPTION	SYMBOL
1.	LA	
2.	CVT	
3.	WT	
4.	BPI	
5.	CT	
6.	ISO 1E/S	
	ISO 2E/S	
7.	CB	
8.	REACTOR	
9.	TOWER	

MINIMUM CLEARANCE:

DESCRIPTION	400KV
PHASE TO PHASE	4000MM
PHASE TO EARTAH	3500MM
SECTIONAL CLEARANCE	6500MM
GROUND CLEARANCE	8000MM

NATURE & DISCRIPTION OF REV.	DRN.	CHK.	REV.	DATE
AS PER COMMENT	MANPREET	AK.JHA	06	10.05.2022
AS PER COMMENT	MANPREET	AK.JHA	05	01.03.2022
AS PER COMMENT	MANPREET	AK.JHA	04	16.02.2022
ISO/2E/S AS PER UPDATED BOM	MANPREET	AK.JHA	03	25.01.2022
AS PER COMMENT	MANPREET	AK.JHA	02	20.09.2021
AS PER COMMENT	MANPREET	AK.JHA	01	08.09.2021
AS PER ORDER	MANPREET	AK.JHA	00	23.08.2021

CLIENT:-	POWER GRID CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)
EPC CONTRACTOR:	SREX POWER INDIA PVT.LTD. H-185, SECTOR-63, NOIDA - 201301 (U.P)
PROJECT:	Extension of 400kV Bongaigaon Substations Under NERSS-XII
PROJECT NOA	CC-CS/1049-NER/SS-41853/G3/NOA-II/977 DATE:-(01.06.2021) CC-CS/1049-NER/SS-41853/G3/NOA-II/9178 DATE:-(01.06.2021)
DWG. TITLE:	BONGAIGAON S/S-400kV ERECTION KEY DIAGRAM LAYOUT PLAN & SECTION
DRAWN	MANPREET
REVIEWED	P.KUMAR
CHECKED	AK. JHA
APPROVED	S.S.SINGH
SCALE	NTS
DATE	10.05.2022
SHEET	01-OF-02
REV.	06
SREX JOB NO:-	POSCIL DRAWING NO.:-
X-333	SREX DRAWING NO.:-

PROHIBITS ANY AND CONFIDENTIAL THE INFORMATIONS CONTAINED IN THIS DRAWING ARE THE SOLE PROPERTY OF SREX. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SREX IS PROHIBITED.

Downloaded on Fri Sep 06 2024 15:09:01 GMT+0530 (India Standard Time) by 60002310

ANNEXURE P-19

NER EXPANSION TRANSMISSION LIMITED,
Registered Office : YC Co Working Space, 3rd Floor, Plot No.94, Dwarka
Sec.13, Opp. Metro, Near Raddison Blu, South West Delhi, New Delhi- 110075

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY BOARD OF DIRECTORS OF NER EXPANSION TRANSMISSION LIMITED IN ITS MEETING HELD ON WEDNESDAY, JULY 23, 2025

Authority for making petitions to Central Electricity Regulatory Commission ("CERC") and to deal on behalf of the Company

"**RESOLVED THAT** the directors of the Company and Mr. T. Amarendranath Reddy, ("**Authorized Representative"**) be and are hereby severally authorized to:

a) Make/file an application / petition/ appeals to CERC/Tribunals/APTEL/Courts for grant of transmission licence and adoption of tariff, approval for creation of security, adjudication or any other petition(s)/application(s)/appeal(s) under Electricity Act, 2003 and to execute all necessary applications, documents, undertakings in connection therewith and personally appear before CERC or any other related statutory authority as may be required from time to time on behalf of the Company;
b) File petitions before CERC from time to time on behalf of the Company;
c) appoint any consultant and lawyers for representing before CERC, APTEL, CEA, MOP or any other Regulatory Authority;
d) Deal with Nodal Agency/ Central Transmission Utility of India Limited ('CTUIL')/Central Electricity Authority or any other statutory agency for the purpose of Transmission Licence Tariff Adoption, for authorization under Section 164 of the Electricity Act, 2003, Connection Agreements etc. including signing and submission of undertaking on behalf of the Company for the purpose of compliance pertaining to TSA or any other law;
e) Register and operate online account of the Company to be created on CERC Portal, NSWS Portal or Portal of any other statutory authority for e-filing of petitions/applications; and
f) Do all such acts, deeds, matters and things necessary to give effect to this resolution for Establishment of Transmission System for North Eastern Region Expansion Scheme-XXV (NERES-XXV) Part-A (hereinafter referred to as "Project") awarded to the Company by PFC Consulting Limited, the Bid Process Coordinator, appointed by the Ministry of Power.

RESOLVED FURTHER THAT a certified true copy of this resolution be issued, as may be required, under the signatures of any one of the Directors of the Company."

For NER Expansion Transmission Limited

Shri Prakash Singh
Additional Director
DIN: 10929893

Date: July 24, 2025
Place: Gurugram

ANNEXURE P-20

FORM-I

Application Form for Grant of Transmission licence / Amendment in the Transmission licence

1. **Particulars of the Applicant**

(i) Name of the Applicant: NER Expansion Transmission Limited

(ii) Status: Public Limited Company

(iii) Address: Resonia Limited, 5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

(iv) Name, Designation & Address of the Contact Person (2 persons):

Mr. Tatimakula Amarendranath Reddy (Director - Regulatory)

5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

Mr. Anshu Shama (Chief Manager - Regulatory Affairs)

5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

(v) Contact Tel. No. (2 nos.): +91 9310490976, +91 9873692022

(vi) Fax No.: N.A.

(vii) Email ID(s): tan.reddy@resonia.com
regulatoyinfra@sterlitepower.com

(viii) Place of Incorporation / Registration: New Delhi

(ix) Year of Incorporation/ Registration: 2024

(x) Following documents are to be enclosed:

a) Certificate of registration: **Annexure P- 6 to the Petition.**

b) Original Power of Attorney of the signatory to commit the Applicant or its promoter: **Annexure P- 19 to the Petition.**

2. **Particulars of the Project for which licence / Amendment in licence (list of existing elements and proposed addition /deletion element in case) is being sought:**

NER EXPANSION TRANSMISSION LIMITED

a) Transmission Lines:

S. No.	Name (end-points location)	Voltage Class (kV)	Length (Km)	Type (S/C or D/C)	Remarks
1.	LILO of both circuits of existing Bongaigoan (POWERGRID) -Balipara (POWERGRID) at Bornagar (ISTS)	400 kV	About 8 km	D/C	
2.	Alipuduar (POWERGRID) – Bornagar (ISTS)	400 kV	About 110 km	D/C	With disconnection of existing Bongaigoan (POWERGRID) -Balipara (POWERGRID) being within the scope of work.

b) Sub-stations

S. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of Bays	Remarks
1.	Establishment of a new 400kV switching station at Bornagar, Assam (ISTS)	400 kV	N.A.	420 kV, 1x125 MVAr Bus Reactor: 2 Nos. 420 kV, 1x80 MVAr switchable line reactor: 2 Nos. 420 kV, 1x63 MVAr	400 kV bus reactor bays: 2 Nos. 400 kV line bays: 6 Nos. (with 2 Nos. each having provision of 1x80 MVAr and 1x63 MVAr switchable	

NER EXPANSION TRANSMISSION LIMITED

				switchable line reactor: 2 Nos.	line reactors, respectively.)	

a) Remarks: Status whether the element is existing or proposed to be added or deleted.

b) Scheduled COD: 23.07.2028

c) Agreements with Identified Long-term transmission customers or CTU for the Project, as applicable: With the Counter-party/ Nodal Agency- CTUIL

3. **Quoted transmission charges in case of project selected through the guidelines of competitive bidding and estimated completion cost of the project in other cases:**

(The Quoted transmission charges or the estimated cost, as the case may be, should be indicated in INR, along with the base month and year in case of the estimated cost)

1894.40 million per annum

4. **In case applicant has been selected in accordance with the competitive bidding guidelines, enclose:**

a) Approval of Central Government as per the Electricity (Transmission System Planning, Development and Recovery of Inter-state Transmission Charges) Rules, 2021.

b) Evaluation report (if made public) by the Bid Process Coordinator: **Annexure P-12 to the Petition.**

5. **List of documents enclosed:** As per the Index

Dated:

Place:

NER EXPANSION TRANSMISSION LIMITED

(Signature of Applicant or the person Authorised)

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI
PETITION NO. /TL/2025

IN THE MATTER OF:

Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited.

AND

IN THE MATTER OF:

NER Expansion Transmission Limited ...**Petitioner**

VERSUS

Central Transmission Utility of India Limited & Ors. ...**Respondents**

VAKALATNAMA

I, T. Amarendranath Reddy, the Authorised Signatory of the Petitioner in the above Petition do hereby appoint Mr. Deep Rao Palepu [D/1368/2014], Mr. Arjun Agarwal [D/6412/2018], Ms. Shikha Sood [D/8487/2021], Mr. Mohd Munis Siddique [D/6314/2020] and Mr. Parth Parikh [D/7201/2023] and Ms. Iqra Khan [D/14731/2023] Advocate(s), with e-portal ID: deep311 to appear, plead and act for me/ us in the above Petition and to conduct and prosecute all proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw any moneys payable to me/us in the said proceeding.

Place:
Date:

Signature of the Party

Executed in my presence

"Accepted"

NER EXPANSION TRANSMISSION LIMITED

Signature with date
(Name and Designation)

Signature with date
(Name and Designation)

TRILEGAL

GOVT. OF INDIA NOTARY PUBLIC Rubina Yasmin Advocate Area New Delhi R. No. 2163/02

Solemnly affirmed before me read over & explained to the deponent

Notary Public, Delhi

I identify the deponent who has signed/put T.I. in my presence

28 JUL 2025

Advocates for the Petitioner
Prius Platinum, Wing A & B,
First Floor, D3, District Centre,
Saket, New Delhi-110017
E mail Id: Deep.Rao@Trilegal.com
arjun.agarwal@trilegal.com
Phone No.011-41639393

NER EXPANSION TRANSMISSION LIMITED

Iqbalchem D/14731/2023

Solemnly affirmed before me read over & explained to the deponent

Notary Public, Delhi

NOTARY PUBLIC GOVT. OF INDIA Rubina Yasmin Advocate New Delhi R. No. 2163/02

28 JUL 2025

D Agarwal

Iqbalchem D/14731/2023

I identify the deponent who has signed/put T I in my presence

MM Siddique D/6314/20

Form I

Sr. No.	Particulars	
1.	Name of the Petitioner	NER Expansion Transmission Limited
2.	Address of the Petitioner	Resonia Limited, 5th Floor, RMZ Infinity, Plot No. 15, Udyog Vihar Phase- IV, Sector- 18, Gurugram, Haryana – 122008.
	Address of Advocates	**Trilegal** 1st Floor, Wing A&B, Prius Platinum, D-3, District Centre, Saket, New Delhi, 110017
3.	Subject matter	Petition under Sections 14, 15 and 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 for grant of transmission license to NER Expansion Transmission Limited.
4.	Petition No. (if any)	**N/A**
5.	Details of generation asset: (a) Generating station/units (b) Capacity in MW (c) Date of commercial operation (d) Period for which fee paid (e) Amount of fee paid (f) Surcharge, if any	**N/A**
6.	Details of transmission assets (a) Transmission line and sub-stations	**N/A**

	(b) Date of commercial operation (c) Period for which fee paid (d) Amount of fee paid (e) Surcharge, if any	
7.	Fee paid for Adoption of tariff for (a) Generation asset (b) Transmission asset	**N/A**
8.	Application fee for licence (a) Trading licence (b) Transmission licence (c) Period for which paid (d) Amount of fee paid	**(B) INR 1,00,000**
9.	Fees paid for Miscellaneous Application	**N/A**
10.	Fees paid for Interlocutory Application	**N/A**
11.	Fees paid for Regulatory Compliance petition	**N/A**
12.	Fee paid for Review Application	**N/A**
13.	Licence fee for inter-state Trading (a)Category (b)Period (c)Amount of fee Paid (d) Surcharge, if an	**N/A**
14.	Licence fee for Inter-State Transmission (a) Expected/Actual transmission charge	**N/A**

	(b) Period (c) Amount of fee calculated as a percentage of transmission charge. (d) Surcharge, if any	
15.	Annual Registration Charge for Power Exchange (a) Period (b) Amount of turnover (c) Fee Paid (d) Surcharge, if any	**N/A**
16.	Details of fee remitted (a) RTGS No. (b) Date of remittance (c) Amount remitted	Prescribed fee of INR 1,00,000 (Rupees One Lakh Only) paid on 25/07/2025: **ICICN52025072500725972.**
	Note: While Sr. No. 1 to 3 are compulsory, the rest may be filled up as applicable.	
	 **Counsel for the Petitioner** **Date:28.07.2025**	