

**SINGLE STAGE REQUEST FOR PROPOSAL
DOCUMENT**

FOR

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

TO

ESTABLISH INTRA-STATE TRANSMISSION SYSTEM

FOR

**CONSTRUCTION OF 400/220 KV, 3×500 MVA GIS
SUBSTATION SECTOR-28 YEIDA (GAUTAMBUDDHA
NAGAR) WITH ASSOCIATED LINES/BAYS**

ISSUED BY

**REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)**

**Registered Office:
Core-4, SCOPE Complex,
7, Lodhi Road, New Delhi – 110 003
Email: tcb@recpdcl.in**

31.08.2026

REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
Core-4, SCOPE Complex,
7, Lodhi Road, New Delhi – 110 003

Request for Proposal Document for selection of Bidder as Transmission Service Provider through tariff based competitive bidding process to establish Intra-State Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays” is issued by REC Power Development and Consultancy Limited.

This RFP document is issued to -

M/s. _____

Chief Executive Officer

REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)

Email :

Place :

Date :

Signature :

Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”		
S. No.	Name of Transmission Element	Scheduled COD from Effective Date
	viii 220kV Bus Coupler 01 No. ix Providing 220 kV interconnection between the 2 Nos. 400 kV Substation and the adjacent under-construction 220 kV Substation using 1200 sq. mm Copper XLPE Cables with protection system. Provision of space for extra bay on 400 kV substation for future extension i. 400/220 kV, 500 MVA ICT - 02 Nos. ii. 400 kV, ICT Bays - 02 Nos. iii. 220 kV, ICT Bays - 02 Nos. iv. 400 kV, Feeder Bays - 02 Nos. v. 220 kV Feeder Bays - 04 Nos.	
2	400 kV Aligarh PowerGrid (765) – YEIDA Sector-28 D/C line (Quad Moose Conductor)	
3	400 kV Feeder Bays at 765/400 kV S/s Aligarh (PowerGrid) – 02 Nos.	

Note:

1. UPPTCL to provide adequate land for the construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA, free of cost and shall be handed over to TSP on as is where is basis.
2. 400 kV Aligarh PG (765) – YEIDA Sector-28 D/C line shall be construct on developed Green Belt of YEIDA and Agricultural Land.
3. 207.07 Lakhs (incl. GST) incurred on Boundary Wall shall be borne by TSP.
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, Codes and Guidelines issued by the State Government and State Commission and other relevant Orders, Rules/ Regulations of Central Government and Central Commission, as applicable.
4. **Transmission License:** The TSP shall obtain the Transmission License from the State 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 State Commission, which, after expiry, may be further extended by such period as deemed appropriate by the State 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 bidders 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 the 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.....[Name of the 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 STU or its successors or an agency as decided by the State 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 STU 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 Long Term Transmission Customer(s) in Indian Rupees. 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 **Chief Executive Officer, tcb@recpdcl.in** 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 Name,	ICICI Bank
Address & Branch	9A, Phelps Building, Inner Circle, Connaught Place, New Delhi-110001
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC0000007

latest by 30.10.2026. 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 31.08.2026 to 30.10.2026 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 02.11.2026. Technical Bid will be opened by the Bid Opening Committee on the same day at 1530 hours (IST) in the office of UP Power Transmission Corporation Limited (UPPTCL), Shakti Bhawan, Lucknow 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:

Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001
Email: tbc@recpdcl.in

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.

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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, the CERC (Terms and Conditions of Tariff) Regulations 2024, Uttar Pradesh Electricity Regulatory Commission (Multi Year Tariff for Transmission) Regulations, 2025, UPERC (Grant of Connectivity to Intra- State Transmission System) Regulations 2010, UPERC (General condition of Transmission License) Regulations 2005, UPERC (Terms and Conditions for Open Access) Regulations, 2019, UP Electricity Grid Code 2007 or any other relevant electricity law, rule or regulation prevalent in UP/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;

"Allocated Project Capacity" shall mean, for each Long Term Transmission Customer, the sum of the generating capacities allocated to such Long Term Transmission Customer from the ISGS and the contracted power, if any, as adopted by UPERC from time to time in determining sharing of transmission charges between the Long Term Transmission Customers;

"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 Rs. 5.28 Crore (Rupees Five Crore Twenty-Eight 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 Evaluation Committee” shall mean the committee constituted by Government of Uttar Pradesh vide G.O No._281/24-UNNP/18-14 (Prakosth)/18 dated 04th May, 2018;

“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;

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

“Central 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;

“Central Government” shall mean the Government of India;

“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;

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

"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 Intra-State Transmission System which will be owned, operated and maintained by the concerned InSTS 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;

"Empowered Committee" shall mean the committee constituted by the Government of Uttar Pradesh vide Go No. 280/24-U.N.N.P/18-14 (Prakosth)/18 dated May 04, 2018;

"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;

"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;

"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;

"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;

“Intra-State Transmission System” or “InSTS” 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;

“Lead Long Term Transmission Customer” shall have the meaning as ascribed thereto in the TSA;

“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;

“Long Term Transmission Customer” shall mean a person availing or intending to avail access to the Intra-State Transmission System for a period up to twenty-five years (25) or more, and for the purposes of this Project, or any such other person who executes a supplementary agreement for availing transmission service as per the provisions of the TSA and for the purpose shall refer to the entities listed in Annexure-23 of this RFP;

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

“MOP” shall mean the Ministry of Power, Government of India;

“MOEFCC” shall mean the Ministry of the Environment, Forest and Climate Change, Government of India;

“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. Any other agreement, as may be required;

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

"State Commission" or "UPERC" shall mean the Uttar Pradesh Electricity Regulatory Commission constituted under Section-82 of The Electricity Act, 2003 and any successors and assigns;

"State Government" shall mean the Government of Uttar Pradesh;

"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;

"STU" or "State Transmission Utility" shall have same meaning as defined in the Electricity Act, 2003;

"Share Purchase Agreement" shall mean the agreement amongst REC Power Development and Consultancy Limited,[insert Name of the SPV] and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the[insert Name of the 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[Name of the 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 State Commission, and as computed in terms of the provisions of Schedule 4 of the TSA, payable to the InSTS Licensee by the Long Term Transmission Customers as per provisions of Transmission Service Agreement.

"Transmission License" shall mean the license granted by the State 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 Long Term Transmission Customer(s) 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 the 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 U.P. Power Transmission Corporation Ltd. (UPPTCL) vide its letter No. 261/PPP Cell/Sec. 28 YEIDA dated 10.08.2026, has notified REC Power Development and Consultancy Limited as Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish intra-state transmission system for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”** 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 Uttar Pradesh. The TSP will make the Project available against payment of Transmission Charges, as adopted by the State Commission, payable to the TSP, as per provisions of Transmission Service Agreement.

- 1.2 The TSP will be required to establish the following Intra State Transmission System for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”** (hereinafter referred to as ‘Project’) on build, own, operate and transfer basis, and to provide transmission service.

Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”		
S. No.	Name of Transmission Element	Scheduled COD from Effective Date
A	Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with 125 MVAR bus reactor and associated line/bays	
1	Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) (along with 125 MVAR bus reactor)	18 Months
i	400 kV ICT Bays 03 Nos.	
ii	400 kV Feeder Bays 04 Nos.	
iii	400kV Bus Coupler 01 No.	
iv	400kV Bus Reactor Bay 01 No.	
v	220 kV ICT Bays 03 Nos.	

Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”		
S. No.	Name of Transmission Element	Scheduled COD from Effective Date
	vi 220kV Interconnecting bays 02 Nos. vii 220 kV Feeder Bays 08 Nos. viii 220kV Bus Coupler 01 No. ix Providing 220 kV interconnection between the 400 kV Substation and the adjacent under-construction 220 kV Substation using 1200 sq. mm Copper XLPE Cables with protection system. Provision of space for extra bay on 400 kV substation for future extension i. 400/220 kV, 500 MVA ICT - 02 Nos. ii. 400 kV, ICT Bays - 02 Nos. iii. 220 kV, ICT Bays - 02 Nos. iv. 400 kV, Feeder Bays - 02 Nos. v. 220 kV Feeder Bays - 04 Nos.	
2	400 kV Aligarh PowerGrid (765) – YEIDA Sector-28 D/C line (Quad Moose Conductor)	
3	400 kV Feeder Bays at 765/400 kV S/s Aligarh (PowerGrid) – 02 Nos.	

Note:

1. UPPTCL to provide adequate land for the construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA, free of cost and shall be handed over to TSP on as is where is basis.
2. 400 kV Aligarh PG (765) – YEIDA Sector-28 D/C line shall be construct on developed Green Belt of YEIDA and Agricultural Land.
3. 207.07 Lakhs (incl. GST) incurred on Boundary Wall shall be borne by TSP.

1.3 Project Description

The proposed Transmission System is required to meet the anticipated power demand ranging from 220 MW to 1320 MW for the development of the proposed Electronics Manufacturing Cluster, Medical Device Park, Film City, Data Centers, and other industrial units in the Greater Noida/Yamuna Authority area, and for the strengthening

of the primary Transmission System of Yamuna Expressway Industrial Development Authority area under District GautamBuddha Nagar.

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[Name of the 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 [Name of the 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 STU or its successors or an agency as decided by the State 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 STU 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) in the scope of TSP:

- For a Generation Pooling Substation shall not be beyond 3 Km radius of the location proposed by the BPC in their Survey Report
- For Load Serving Substation within the scope of TSP shall not be beyond 5 Km

radius of the location proposed by the BPC in their Survey Report.

- For an Intermediate Substation shall not be beyond 10 Km radius of the location proposed by the BPC in their 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, Codes and Guidelines issued by State Government and State Commission and other relevant Orders, Rules/ Regulations of the Central Government and Central Commission, as applicable.

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 State 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 Energy Department, Government of Uttar Pradesh after acquisition of[Name of the SPV]. The approval shall be granted by Energy Department, Government of Uttar Pradesh upon 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 State 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 REC Power Development and Consultancy Limited for the acquisition of

one hundred percent (100%) of the equity shareholding of..... [Name of the 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[Name of the SPV] 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 State Electricity Regulatory Commission applicable 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 as amended vide order No. A1/2021- FSC- Part(5) dated 16.11.2021 and No.: P45021/2/2017-PP (BE-II)-Part-4 Vol.II dated 19.07.2024 issued by Ministry of Power for transmission sector, as may be further 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 in suppression of OMs issued 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, Office Memorandum (OM) No. F.18/37/2020-PPD dated 08.02.2021, OM No. F.12/1/2021-PPD (Pt.) dated 02.03.2021, OM No. F.7/10/2021-PPD dated 08.06.2021 and Order (Public Procurement No 4) bearing File No. F.7/10/2021-PPD 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.

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. Network:

Network should be not less than **Rs. 250 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Network 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 Network 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 through 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 Bid submitted by a Bidding Consortium:

- 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 STU and the BPC and/or the STU 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 State 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 (4th) Bidder is shared by more than one (1) Bidder, then all such Bidders who share the rank of the fourth (4th) 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 Limited 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 the SPV]

Note: The effective Equity holding of the Selected Bidder in the [Name of the 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**.
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 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 outrightly 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 BPC¹

- 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 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.....[Name of the 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.

¹ BPC shall record reasons for the same.

- 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 Central Commission, State Commission 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 Intra-State Transmission and related matters) Regulations, 2019, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2022, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Intra-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, State Government, Central Commission, State Commission 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 & Long Term Transmission Customer(s) 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)/ State Grid Code. 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 [Name of the 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[Name of the 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 [Name of the 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[Name of the SPV] by any of the entities referred to above, shall be after prior written intimation to the Lead Long Term Transmission Customer.

2.5.8.2. The Selected Bidder may invest in the equity share capital of.....[Name of the 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[Name of the 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[Name of the SPV] then holding of Selected Bidder A in[Name of the 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.....[Name of the SPV], then for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in[Name of the SPV] shall be fifteen percent (15%), (i.e., $30\% \times 50\%$);

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;

Sr. No.	Name of the Transmission Element	Scheduled CoD in months from Effective	Percentage of Quoted Transmission Charge recoverable on Scheduled CoD	Element (s) which are pre-required for Declaring the Commercial
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		Date	of the Elements of the Project	Operation (CoD) of the respective Element
Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (Gautam Buddha Nagar) with 125 MVAR bus reactor and associated line/bays				
1.	400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (Gautam Buddha Nagar) with 125 MVAR bus reactor.	18 Months	100 percent	Elements at Sr. No. 1, 2 and 3 shall be required simultaneously
2.	400 kV Aligarh PowerGrid (765) – YEIDA Sector-28 D/C line (Quad Moose Conductor)			
3.	400 kV Feeder Bays at 765/400 kV S/s Aligarh (PowerGrid) – 02 Nos.			

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 pre-required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for overall Project: 18 Months from the Effective Date

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 (IST) on 02.11.2026. 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
31.08.2026	Issuance of RFP
21.09.2026	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-19.
23.09.2026	Pre-Bid meeting(s)
08.10.2026	Issue of written clarifications and revised RFP documents

19.10.2026	Issue of final RFP Project Documents
02.11.2026	Submission of Bid (Online submission of Bid through electronic bidding portal)
02.11.2026	Opening of Technical Bid
10.11.2026	Shortlisting and announcement of Qualified Bidders on bidding portal
11.11.2026	Opening of Financial Bid - Initial Offer
12.11.2026	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.
17.11.2026	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer
20.11.2026	Selection of Successful Bidder and issue of LOI
30.11.2026	Signing of RFP Project Documents and transfer of ... [Name of the 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.

- 2.10.2. 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 Name, Address & Branch	ICICI Bank 9A, Phelps Building, Inner Circle, Connaught Place, New Delhi-110001
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC00000007

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[Name of the 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[Name of the 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 Long Term Transmission Customer the Contract Performance Guarantee for an amount of **Rs. 13.20 Crore (Rupees Thirteen Crore and Twenty 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 Uttar Pradesh Power Transmission Corporation Limited (UPPTCL), Shakti Bhawan, Lucknow in the online presence of Bidders' representatives who wish to attend:

Opening of Envelope (Technical Bid): 1530 hours (IST) on 02.11.2026 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 11.11.2026 in the office of Uttar Pradesh Power Transmission Corporation Limited (UPPTCL), Shakti Bhawan, Lucknow.

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:

Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001
Email: tbc@recpdcl.in

2.15 Other Aspects

2.15.1. The draft of the Transmission Service Agreement has been to this RFP in addition to above the following documents have also been attached to this RFP.

a) Share Purchase Agreement

2.15.2. 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.

2.15.3. 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 Long Term Transmission Customer(s) 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.....[Name of the SPV] from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of[Name of the SPV], along with all its related assets and liabilities; Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of [Name of the 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.

2.15.4. After the date of acquisition of the equity shareholding of[Name of the 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 Lead Long Term Transmission Customer(s),
- ii. all rights and obligations of[Name of the 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 Long Term Transmission Customers and

- iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.
- 2.15.5. Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the State Commission for grant of Transmission License and make an application to the State Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.
- 2.15.6. 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 REC Power Development and Consultancy Limited is willing to sell the entire equity shareholding of [Name of the 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.
- 2.15.7. If the TSP fails to obtain the Transmission License from the State Commission, it will constitute sufficient grounds for annulment of award of the Project.
- 2.15.8. The annulment of award, as provided in Clauses 2.15.5 and 2.15.6 of this RFP, will be done by the State Government on the recommendations of Empowered Committee. However, before recommending so, Empowered Committee will give an opportunity to the Selected Bidder / TSP to present their view point.
- 2.15.9. 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 Empowered Committee, 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 Long Term Transmission Customers 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;
- 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 State 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 fraction 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 (4th) 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
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
 23. List of Long Term Transmission Customers

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,
Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Intra-State Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays” 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 vide order No. -1/2021-FSC-Part(5) dated 16.11.2021 and No: P45021/2/2017-PP(BE-II)-Part-4 Vol.II date 19.07.2024 issued by Ministry of

Power for transmission sector, as may be further 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 revised OM dated 23.2.2023 issued in suppression of 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, Office Memorandum (OM) No. F.18/37/2020-PPD dated 08.02.2021, OM No. F.12/1/2021-PPD(Pt.) dated 02.03.2021, OM No. F.7/10/2021-PPD dated 08.06.2021 and Order (Public Procurement No 4) bearing File No. F.7/10/2021-PPD 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.

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.

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,
Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29, Gurugram – 122 001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Intra-State Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays” 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 Intra-State Transmission System for “**Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays**” 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 Intra-State Transmission System for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”** 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 atas 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)

.....

Place:

Date:

**(Name, Designation and Address
of the Attorney)**

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 **REC Power Development and Consultancy Limited** to verify our Bid for selection of Bidder as Transmission Service Provider to establish Intra-State Transmission system for “**Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays**” 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 {.....**[insert Name of the SPV]** (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 Long Term Transmission Customer(s).

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 Intra-State Transmission System for **"Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays"**

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.
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 Long Term Transmission Customer(s), 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 Long Term Transmission Customer(s). Over the term of the Transmission Service Agreement, the provisions of TSA and State Electricity Regulatory 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 Long Term Transmission Customer (s).

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 Long Term Transmission Customer(s).

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 7A - FORMAT FOR QUALIFICATION REQUIREMENT

A. NET WORTH

To,
Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter, D
Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Intra-State Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays” 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 Network 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 Network of any of the last three (3) financial years is not negative.

Name of Consortium Member	Equity Commitment in the Project (%)	Network of Member (Rs. Crore)	Network Requirement to be met by Member in proportion to the Equity Commitment (Rs. Crore)	Whether the Member meets the Network Requirement
(1)	(2)	(3) (As per table below)	(4) = (2 x Total Network requirement for the Project)	(5)
1.				Yes / No
2.				Yes / No
..				Yes / No
Total Network 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 Network requirement: Rs.....Crore
- iii. Percentage of equity commitment for the Project by the Member: %
- iv. Network 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	Network (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,
Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001
 Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Intra-State Transmission System for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays” 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. 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. 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					

.....							
.....		.....	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,
Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter, D
Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish
Intra-State Transmission System for “Construction of 400/220 kV, 3×500
MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with
associated lines/bays” 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,

Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter, D
Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001

Dear Sir,

Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Intra-State transmission system for “Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”

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 UPERC (Terms & Conditions for Open Access Regulations, 2019) and as amended from time to time.
3. We give our unconditional acceptance to the RFP dated 31.08.2026 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:

Sr. No.	Name of the Transmission Element	Scheduled CoD in months from Effective Date	Percentage of Quoted Transmission Charge recoverable on Scheduled CoD of the Elements of the Project	Element (s) which are pre-required for declaring the commercial operation (CoD) of the respective Element
Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (Gautam Buddha Nagar) with 125 MVAR bus reactor and associated line/bays				
1.	400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with 125 MVAR bus reactor.	18 Months	100%	Elements at Sr. No. 1, 2 and 3 shall be required simultaneously
2.	400 kV Aligarh PowerGrid (765) – YEIDA Sector-28 D/C line (Quad Moose Conductor)			
3	400 kV Feeder Bays at 765/400 kV S/s Aligarh (PowerGrid) – 02 Nos.			

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 overall Project: 18 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 the 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 the 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 the 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

**Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter, D
Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001**

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 31.08.2026 ('RFP') issued by you for selection of Bidder as Transmission Service Provider for establishing the Intra-State Transmission System for **"Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays"**.

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 **"Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays"**.

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,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter, D
Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001**

Sub: Undertaking for equity investment

Dear Sir,

We refer to the Request for Proposal dated 31.08.2026 ('RFP') issued by you regarding setting up of Intra-State transmission system for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”** 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 the 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 the 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 the 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 the SPV] by purchase of existing shares or subscribing to the new shares of..... [Name of the 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 the SPV] representing the entire amount proposed to be invested by the company for the transmission system for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”**, partly by acquisition of the existing equity shares from _____[Name of BPC] 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 the 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 the 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 _____[Name of BPC] 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/MSbe 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 investpercent (.... %) of the total equity share capital of[Name of the 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.

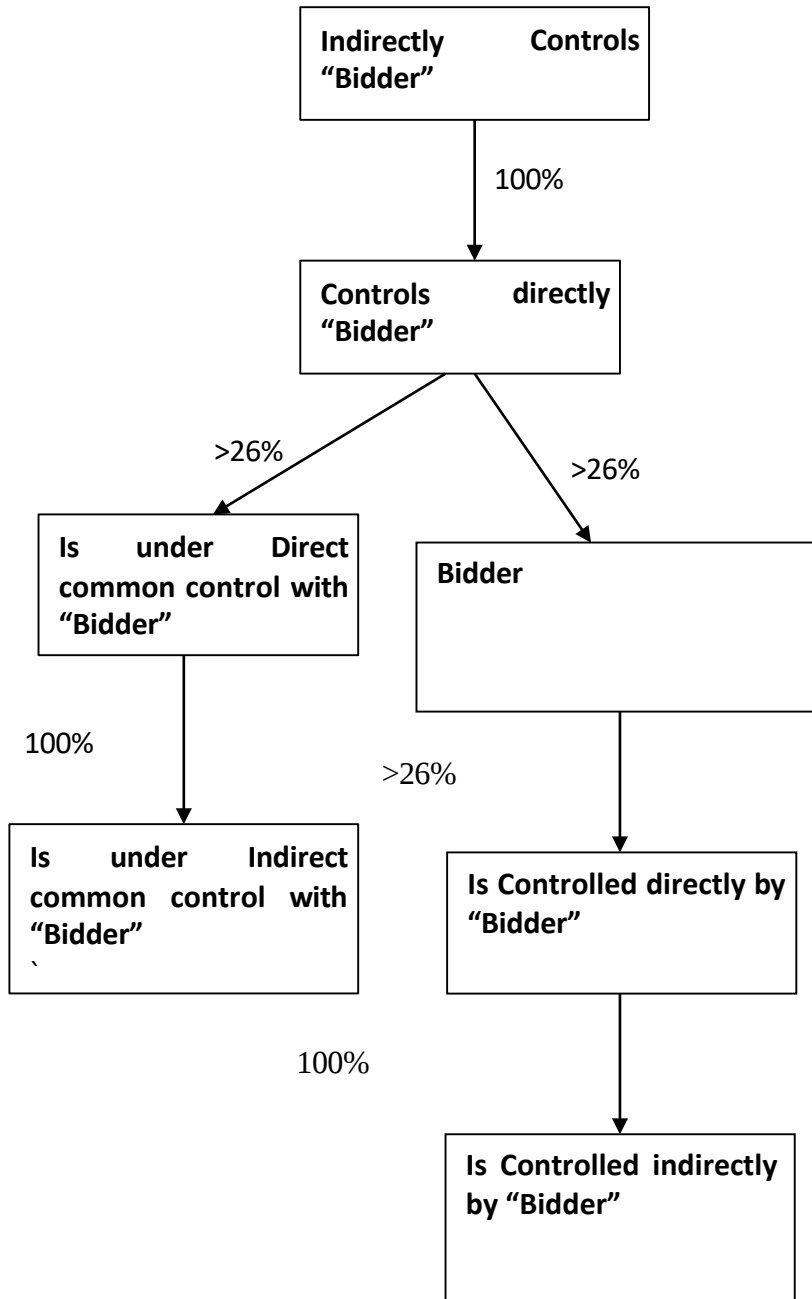
Certified True Copy**Company rubber stamp to be affixed Note:**

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 and 4 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 Company and/or Ultimate Parent) in aggregate holding 100% equity	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 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	Yes, by either Parent/ Affiliate(s) whose credentials have been used, or Ultimate Parent

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 Intra-State transmission system for _____[Name of Project] on build, own, operate and transfer basis, in response to the RFP dated _ issued by _____[Name of BPC], 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:

1. 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 Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) at..... [Insert Place and Address of the Long Term Transmission Customer(s) indicated in TSA] forthwith on demand in writing from the Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s), made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Long Term Transmission Customer(s).

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 Long Term Transmission Customer(s) to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) and may be assigned, in whole or in part, (whether absolutely or by way of security) by Long Term Transmission Customer(s) to any entity to whom the Long Term Transmission Customer is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Long Term Transmission Customer(s) 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 Long Term Transmission Customer(s) 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 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	

Technical Bid Submission Requirements	Response (Yes / No)
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. 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)	

Technical Bid Submission Requirements	Response (Yes / No)
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)

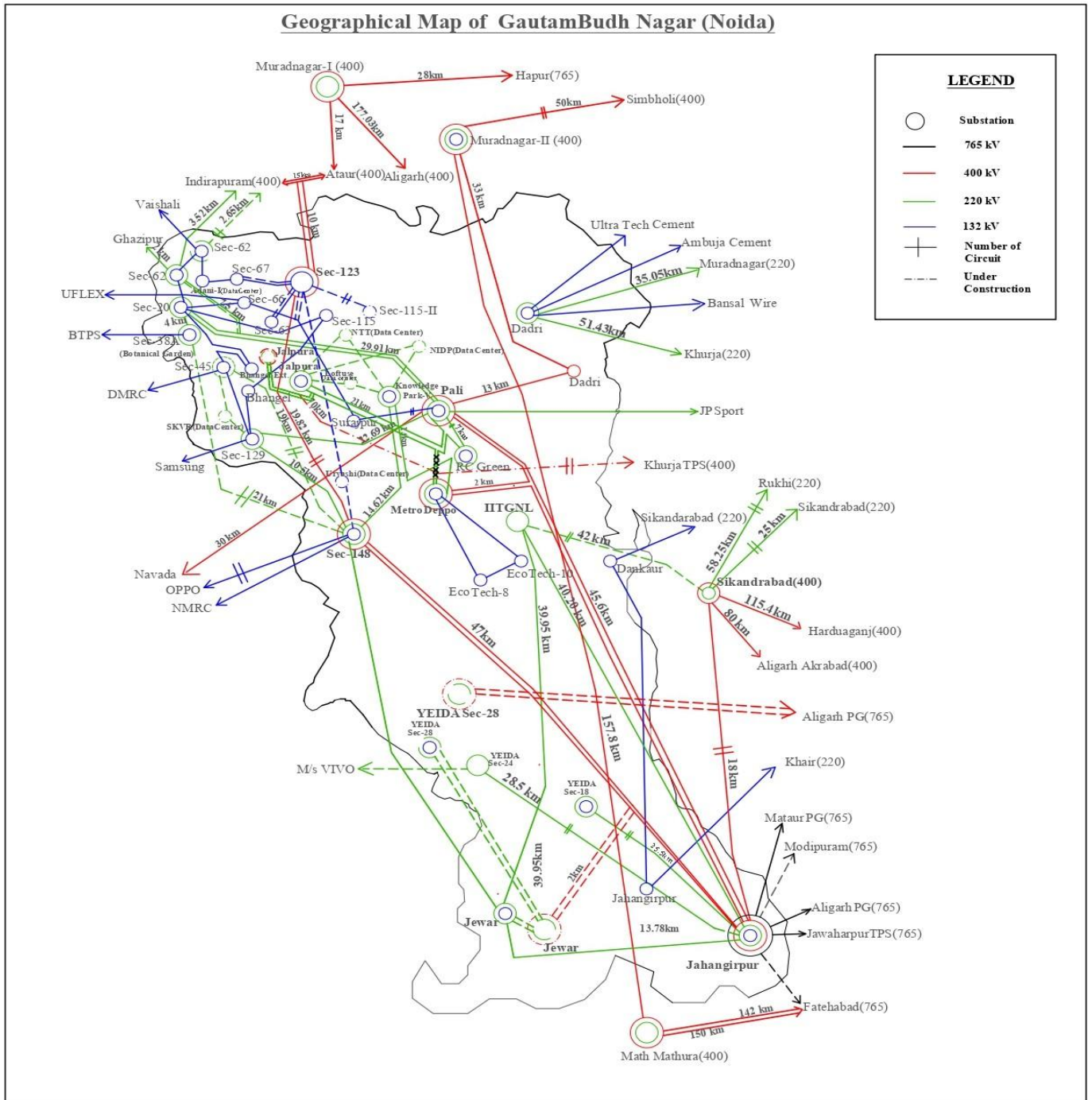
ANNEXURE 17 – LIST OF BANKS

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)

.....

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 23 – LIST OF LONG TERM TRANSMISSION CUSTOMERS

Sl. No.	Name of the Long Term Transmission Customer	Address of Registered Office	Law under which incorporated	Allocated Project Capacity (in %)
1.	Paschimanchal Vidyut Vitran Nigam Ltd.	Hydel Colony, Victoria Park, Meerut-250001 E-mail: md@pvvnl.org Fax: 0121-2666062 Phone: 0121-2665734	Companies Act	29.13%
2.	Madhyanchal Vidyut Vitran Nigam Ltd.	4A Gokhale Marg, Lucknow-226001 E-mail: md.mvvnl2010@gmail.com Fax: 0522-2208769 Phone: 0522-2208737	Companies Act	21.60%
3.	Purvanchal Vidyut Vitran Nigam Ltd.	Vidyut Nagar, Bhikharipur, P.O. DLW, Varanasi-221010 E-mail: mdpurvanchalvvn@gmail.com Fax: 0542-2319158 Phone: 0542-2318437	Companies Act	24.49%
4.	Dakshinanchal Vidyut Vitran Nigam Ltd.	Urja Bhawan, NH-2 (Agra-Delhi bypass Road) Sikandra Agra-282002 E-mail: dvvnmd@gmail.com Fax: 0562-2605465 Phone: 0562-2605699	Companies Act	21.71%
5.	Kanpur Electricity Supply Co. Ltd.	Kesa House, 14/17 Civil Lines, Kanpur - 208001 E-mail: md@kesco.co.in Phone: 0512-2530832	Companies Act	3.07%

Note: The above list of Long Term Transmission Customer subject to change. Any addition or deletion in this list after the award of LoI shall be duly notified to the parties to the Agreement.

The new Long Term Transmission Customer shall become a party to the TSA after agreeing to the terms and conditions of this Agreement and signing a Supplemental Agreement as annexed in Schedule 11 to this Agreement.

ANNEXURE A

Technical Details with respect to electronic bidding

Registration Methodology

To participate in the e-bidding process for selection of the Transmission Service Provider, interested bidders are required to register on the e-procurement portal of MSTC Limited at <https://www.mstcecommerce.com/eprocn/>.

For registration, the bidder must complete the online form available under the “Register as Vendor” link on the portal and submit the duly filled form by clicking on the “Submit” button.

During the registration process, the bidder shall create a user ID and password and retain the same for future use. The bidder shall ensure that the confidentiality of the user ID and password is maintained at all times and shall be solely responsible for any misuse thereof. The mobile number and email address provided by the bidder shall be verified through OTP authentication.

Bidders are required to possess a Digital Signature Certificate (DSC) with both signing and encryption capabilities, which must be mapped to their login credentials upon successful completion of the registration process at the time of first login.

The bidders are advised to verify all details entered in the registration form before final submission. Upon successful submission of the online registration form, a confirmation email will be sent to the bidder’s registered email address, confirming successful registration. The email will also contain the bidder’s unique reference number along with the registration details.

Contact persons of MSTC Limited: **Mrs. Rupali Pandey, 9458704037**

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) to establish Intra-State transmission system for **“Construction of 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA (GautamBuddha Nagar) with associated lines/bays”** 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

- 11 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.
- 12 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.
- 13 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:-
- 31 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.

- 32 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.
- 33 The Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates.
- 34 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid .
- 35 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.
- 36 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.
- 37 The Bidder will not collude with other parties interested in the bidding process to impair the transparency, fairness and progress of the bidding process.
- 38 The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 39 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)

Along with the technical bid, the Bidder shall submit Bid Bond for an amount of Rs. 5.28 Crore (Rupees Five Crore Twenty-Eight Lakh Only) issued by any Banks from the list provided in RFP Document] as Earnest Money/Security Deposit, with the BPC.

- 5.1 The Earnest Money/Security Deposit shall be valid & retained by the BPC for such period as specified in the RFP Document.
- 5.2 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:-

- (i) 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.
 - (ii) 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.
 - (iii) To immediately cancel the award, if already awarded, without giving any compensation to the Bidder.
 - (iv) 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. -
 - (v) To debar the Bidder from participation in any tender or RFP issued by any BPC for an indefinite period.
 - (vi) 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.
- 62 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.
- 63 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

- 71 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).
- 72 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.
- 73 The Monitors shall not be subject to instructions by the representatives of the parties and

perform their functions neutrally and independently.

- 74 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 75 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.
- 76 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 confidentiality. [As all the bid documents are with BPC only]
- 77 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.
- 78 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) Name of the Officer Designation Name of the BPC with address Witness: 1. _____ 2. _____	BIDDER Name of Whole time Director/Authorized Signatory Name of the Bidder with address Witness: 1. _____ 2. _____
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ANNEXURE-C

Technical Specifications of Transmission System

A. SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINES

- 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 and MoP Regulations/guidelines as amended up to date, as applicable, shall also be followed.
- 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:
- (1) The Tower shall be fully galvanized using mild steel or/and high tensile steel sections. Bolts and nuts with spring washer are to be used for connection.
 - (2) IS Steel section of tested quality in conformity with IS 2062:2011, grade E 250 (Designated Yield Strength 250 Mpa) and/or grade E 350 (Designated Yield Strength 350 MPa) are to be used in towers, extensions, gantry structures and stub setting templates. However, use of steel grade having designated yield strength more than 350 MPa is not permitted. The steel used for fabrication of towers shall be manufactured by primary steel producers only.
- 3.0** Transmission line shall be designed considering wind zones as specified in 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 reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.
- 4.0** Towers shall be designed as per IS-802:2015. However, drag coefficient of the tower shall be as follows:-

Solidity Ratio	Drag Coefficient
Upto 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

- 5.0** Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and/or deemed necessary.
- 6.0** Under security condition for tension and dead-end towers, the transverse loads due to line deviation shall be based on the component of conductor and ground wire/OPGW tension corresponding to the applicable design wind condition and temperature loading combinations as per IS-802:2015.
- 7.0** 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.
- 8.0** For power line crossings, following should be followed:
- A. Under-crossing of an existing transmission line of the same voltage level shall not be permitted. In cases where such under-crossing is unavoidable, the TSP shall obtain prior approval from the Chief Electrical Inspector, supported by a detailed study demonstrating that all statutory electrical clearances and the electric field limit of 10 kV/m at 1 m and 1.8 m above ground level are complied with.
 - B. For power line crossing of 400kV or above voltage level, large angle & dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing (i.e D/DD/QD- D/DD/QD arrangement).
 - C. For power line crossing of 132kV and 220kV 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. Where two lines cross each other, the crossing shall be made as nearly at right angles as the nature of the case admits and as near the support of the line as practicable, and the support of the lower line shall not be placed in the right of way of the upper line.
 - F. For crossing railways, expressways, national highways and state highways, the Rules/Regulations of appropriate authorities shall be followed. These crossing should be kept to minimum, and preferably at right angles
 - G. Wherever overhead line of voltage 33 kV or above or high voltage direct current intending to cross the right of way of a Petroleum or Natural Gas pipeline, the angle

of crossing of the overhead line with respect to the pipelines shall preferably be at right angles and, in any case, the crossing angle shall not be less than seventy five degrees.

9.0 The conductor configuration shall be as follows:-

9.1 For transmission lines with ACSR conductor:-

Transmission line	ACSR Conductor specified
400kV D/C (Quad Moose) transmission lines Sub-conductor Spacing - 457 mm	Moose : Stranding 54/3.53mm-Al + 7/3.53 mm-Steel, Total Sectional Area: 597 sq mm Aluminum Area: 528.5 sq.mm diameter: 31.77mm Maximum DC Resistance at 20 deg C (ohm/km) : 0.05552, Max. UTS:161.2kN

Note: The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 deg C for ACSR only.

10.0 The required phase-to-phase spacing and horizontal spacing for 400 kV D/C 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. All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor shall be as per Central Electricity Authority (Measures Relating to Safety & Electric Supply) Regulations as amended from time to time and IS: 5613.

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:

A. For 400 kV transmission lines:

The minimum live metal clearances for 400kV D/C transmission lines may be considered as follows:

- (i) Under stationary conditions : From tower body: 3.05 m
- (ii) Under swing conditions

Wind pressure Condition	Minimum electrical clearance
a) Swing angle (22°)	3.05 mtrs

b) Swing angle (44°)	1.86 mtrs
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(iii) However the phase to phase spacing for 400kV D/C line shall not be less than 8.0m.

- 11.0** The minimum ground clearance for 400 kV D/C transmission lines shall be 8.84 m so that maximum electric field does not exceed 10kV/m within the ROW and does not exceed 5kV/m at the edge of the ROW as per international guidelines.
- 12.0** The minimum mid span separation between earth wire and conductor shall be 9.0 m for 400 kV D/C transmission lines. Shielding angle shall not exceed 20 deg for 400 kV D/C transmission lines.
- 13.0** Transposition is to be done for all transmission lines whose length is greater than 100 km.
- 14.0** The switching impulse withstand voltage (wet) for 400 kV line shall be 1050 kVp. Lightning impulse withstand voltage (dry) for 400kV line shall be 1550 kVp.
- 15.0** The Fault current for design of line shall be 63 kA for 1 sec for 400 kV.
- 16.0** The lines shall be designed for very heavy pollution level (creepage of 31mm/kV as per IEC-60815). Silicone rubber polymer insulators shall be used for the transmission lines.
- 17.0** In case of 400 kV and above voltage class lines, at least one out of two earth wires shall be OPGW, and the second earth wire, Earth wire shall be either galvanized standard steel (GSS) or any other suitable conductor type depending upon span length and other technical considerations.
- 18.0** Each tower shall be earthed such that tower footing resistance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. If the value (before stringing) has been recorded higher than 10 ohm, earthing shall be changed to Counterpoise type. Additional earthing shall be provided on every 7 to 8 kms distance at tension tower for direct earthing of both shield wires.
- 19.0** The transmission line route shall be finalized in consultation with appropriate authorities so as to avoid habitat zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.
- 20.0** (a) 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 765 kV level, which are installed in protected areas, shall be designed for Multicircuit (4-circuits) configuration of same voltage level considering the Reliability Level and Design Span as per CEA (Technical standards for construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time. 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 Utilities 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.

It shall be ensured that Minimum ground clearance is maintained such that statutory Electrical Clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level are not violated.

- (b) Routing of transmission lines through all Metropolitan areas, Municipal Corporations, Municipalities, Nagar Panchayats, and all Urban Planning areas notified by State Governments and Forest areas notified by the Ministry of Environment, Forest and Climate Change (MoEFCC), shall be avoided to the extent possible. However, if it is not possible to avoid these areas, then, in order to optimize Right of Way (RoW) in all Metropolitan areas, Municipal Corporations, Municipalities, Nagar Panchayats, and all Urban Planning areas notified by State Governments, for up to 400 kV transmission lines, Double Circuit Pole Structures designed with a Reliability Level and Design Span as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 as amended from time to time) (preferably with insulated cross arms) shall be implemented.

It shall also be ensured that Minimum ground clearance is maintained such that statutory Electrical Clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level are not violated.

In case of more than TWO parallel Circuits up to 400 kV, the same shall be accommodated using Pole Structures designed for so many Circuits.

- 21.0** The TSP shall abide by the guidelines of Central Electricity Authority with respect to shifting of transmission lines for NHAI projects and other projects.
- 22.0** Safety precautions regarding gas/oil pipelines in the vicinity of transmission lines shall be taken in coordination with gas/petroleum authorities.
- 23.0** The stringing of the transmission line in forest areas shall be carried out through drones.
- 24.0** RoW width and span in different terrain shall be as per Schedule VII of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, and RoW guidelines issued vide CEA-PS-14-86/2019-PSETD Division dated 24.09.2024.
- 25.0** The required grade of concrete and mix design for foundation of transmission line tower shall be as per relevant IS.
- 26.0** 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.

- 27.0** 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 High Flood Level (HFL) 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).
- 28.0** For transmission line sections passing within a distance of 50km from the boundary of two wind zones, higher of the two wind zone shall be considered for design of towers located in such sections.

A. SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed 400/220 kV, 3×500 MVA GIS substation Sector-28 YEIDA, GautamBuddha Nagar shall be Gas insulated switchgear (GIS) type generally confirming to the requirement of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

1.0 Salient features of 400/220kV GIS Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

2.0 Insulation Coordination

400kV System would be designed to limit the Switching overvoltage to 2.5 pu and is expected to decay to 1.5 p.u. in 5 to 6 cycles. Consistent with these values and protective levels provided by lightning arrestors, the following insulation levels are proposed to be adopted for 400 KV & 220kV systems:

Sl. No.	Particulars	400/220 kV, 3×500 MVA GIS Sector-28 YEIDA substation	
		400kV System	220kV System
1	System operating voltage	400 kV	220 kV
2	Maximum voltage of the system (rms)	420 kV	245 kV
3	Rated frequency	50 Hz	50 Hz
4	Nos. of Phases	3	3
5	Rated Insulation Levels		
(i)	Lightning impulse withstand voltage (1.2/50 μ s) for transformer and reactor	1300kVp	950kVp
(ii)	Lightning impulse withstand voltage (1.2/50 μ s) for other equipment	1425 kVp	1050 kVp
(iii)	Lightning impulse withstand voltage (1.2/50 μ s) for insulator strings	1550kVp	1050 kVp
6	Switching impulse withstand voltage (250/2500 μ s), dry and wet	1050kVp	NA
7	Corona extinction voltage	320kV rms	156kV rms
8	Minimum specific creepage distance for outdoor insulation including insulator strings, long rod insulators, and outdoor bushings	13020 mm (31 mm/kV)	7595 mm (31 mm/kV)
9	Minimum creepage distance for switchyard equipment	13020 mm (31 mm/kV)	7595 mm (31 mm/kV)

10	Max. fault current	63 kA	50 kA
11	Duration of fault	1 Sec	1 Sec

3.0 Switching Schemes

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	400kV side	220kV side
400/220 kV, 3×500 MVA GIS Substation, Sector-28 YEIDA GautamBuddha Nagar	Double Main Bus Scheme	Double Main Bus Scheme

4.0 Substation Equipment and Facilities

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the transmission line capacity.

The current ratings for various feeders and bus bars are as follows:

Sl.No.	Description of Bay	400 kV	220 kV
1	Bus Bar	4000 A	3150 A
2	Line Bays	3150 A	1600 A
3	ICT Bays	3150 A	1600 A
4	Bus Reactor Bays	3150 A	NA
5	Bus Coupler Bays	3150 A	2500 A

4.1 400/220KV GIS Substation equipment:

GIS (Gas Insulated Switchgear) shall be indoor type and shall conform to IEC 62271-203 and other relevant IEC standards. The switchgear shall be designed and specified to withstand the specified operating conditions, system parameters, fault levels, and duty requirements. All primary switchgear equipment such as Circuit Breakers, Isolators, Earthing Switches, Current Transformers (CTs), Voltage Transformers (VTs/PTs), Bus Bars, interconnecting conductors etc. shall be of GIS type. Surge Arresters for transformer/reactor bays shall be either GIS type or outdoor AIS type as per design requirement.

The GIS shall comprise modular, metal-enclosed, gas-tight compartments separated by gas-tight barriers/partitions to minimize the risk of gas leakage, facilitate maintenance, and limit the impact of internal faults. The GIS equipment shall be suitable for safe operation, inspection, maintenance, and future extension with minimum shutdown requirements. The GIS arrangement and bus duct layout shall be optimized considering operational flexibility, reliability, ease of maintenance, accessibility, and minimization of

fast transient overvoltages. Provision for future bay extension shall be kept without major modification to the existing GIS arrangement.

The 400 kV scheme shall be designed such that line reactors, wherever provided, can also be utilized as bus reactors during line outage conditions for effective bus voltage control and operational flexibility.

Local Control Cabinets (LCCs) shall be provided for each bay/module as required. Necessary alarm, annunciation, interlocking, protection, control, status, and monitoring signals of GIS equipment shall be interfaced and wired to the SCADA system for remote operation and monitoring.

4.2 Circuit Breakers

GIS Circuit Breakers shall conform to IEC 62271-100, IEC 62271-1 and generally be of Class C2-M2 suitable for EHV applications. The Circuit Breakers shall be capable of performing all switching duties including line/cable charging, transformer and reactor switching, capacitive and inductive current switching, short-circuit interruption, and short line fault interruption under specified system conditions.

The rated operating time (break time) shall not exceed 40 ms for 420 kV class breakers and 60 ms for 245 kV class breakers. Circuit Breakers of 420 kV and 245 kV class shall be suitable for both single-phase and three-phase auto-reclosing schemes.

Controlled Switching Devices (CSD) complying with relevant IEC standards shall be provided for Bus Reactor Circuit Breakers, Transformer Main and Tie Circuit Breakers, Circuit Breakers associated with non-switchable line reactors, and other reactive compensation equipment, wherever required, to minimize switching transients, restrikes, re-ignitions, inrush currents, and over voltages.

The short line fault interruption capability of Circuit Breakers shall be equal to their rated short-circuit breaking capacity and shall be achieved without the use of opening resistors.

Circuit Breakers shall be provided with online monitoring and diagnostic features including operation counter, SF6 gas density monitoring, spring charging supervision, trip circuit supervision, and health monitoring provisions.

The 400 kV scheme shall be designed such that line reactors, wherever provided, can also be utilized as bus reactors during line outage conditions for effective voltage control and operational flexibility.

4.2.1 Isolators

The Isolators and Earthing Switches shall generally conform to IEC 62271-102. Isolators shall be motor operated (DC powered) and suitable for local as well as remote operation through SAS/SCADA system.

Earthing Switches shall be provided at appropriate locations to facilitate safe maintenance

and operation. Main blades and earth blades shall be provided with fail-safe electrical and mechanical interlocks to prevent incorrect operation.

All Earthing Switches shall be motor operated. Wherever required, fault-making Earthing Switches suitable for making short-circuit currents under specified system conditions shall be provided.

Necessary position indication, command supervision, manual emergency operation, and interlocking features shall be incorporated for safe and reliable operation.

4.2.2 Current Transformers:

Current Transformers (CTs) shall conform to IEC 61869-1 and IEC 61869-2 and shall be suitable for the specified system parameters and fault levels. All CT ratios shall be obtained through secondary taps only.

CTs shall generally have five cores (four protection cores and one metering core), whereas CTs in Tie Bays shall have six cores (four protection cores and two metering cores), suitably distributed on both sides of the Circuit Breaker.

Protection cores shall generally be of class PX and metering cores shall be of accuracy class 0.2S suitable for metering, telemetry, and SCADA applications.

The burden, knee point voltage, Accuracy Limit Factor (ALF), and other CT parameters shall be selected considering the requirements of protection, metering, telemetry, relay burden, lead burden, and future expansion.

CTs shall be capable of withstanding the specified thermal and dynamic short-circuit currents without deterioration and shall be provided with necessary terminal and testing facilities for safe operation and maintenance.

4.2.3 Voltage Transformer

Voltage Transformers (VTs) shall conform to IEC 61869-1 and IEC 61869-3 and shall be of electromagnetic inductive type with SF6 gas insulation suitable for GIS applications. The VTs shall be housed in separate gas-tight SF6 compartments isolated from other parts of the GIS assembly.

The VTs shall be connected phase-to-ground and shall be suitable for protection, metering, synchronization, telemetry, and SCADA applications. The earth end of the primary winding and all secondary winding terminals shall be brought out to the terminal box.

The VTs shall be effectively shielded against high-frequency electromagnetic transients and shall be thermally and dielectrically suitable for the specified burden conditions.

The VTs shall have three secondary windings. Metering winding shall be of accuracy class 0.2, while protection windings shall generally be of accuracy class 3P or better as

per system requirements. The specified accuracy shall be maintained throughout the entire burden range up to the guaranteed burden without requiring any adjustment during operation.

4.2.4 SF6 to Air Bushing

Outdoor bushings for connection of external conductors to the SF6 metal enclosed switchgear shall be provided and shall conform to IEC 60137. SF6-to-air bushings shall be of polymer/composite type suitable for polluted environmental conditions with minimum creepage distance of 31 mm/kV.

The bushings shall be designed to withstand specified electrical, thermal, mechanical, and seismic stresses including required cantilever loading conditions. Polymer/composite insulators shall consist of seamless silicone rubber housing with high resistance to tracking, erosion, UV radiation, environmental pollution, and moisture ingress.

The silicone rubber housing and weather sheds shall have minimum 30% silicon content by weight and shall provide long-term hydrophobic performance under service conditions.

Hollow composite insulators shall comply with IEC 61462 and relevant provisions of IEC 62217.

4.2.5 Capacitor Voltage Transformers

Capacitive Voltage Transformers (CVTs) shall conform to IEC 61869-1 and IEC 61869-5. CVTs shall have three secondary windings, 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.

CVTs provided on transmission lines shall be suitable for carrier coupling and PLCC applications. The capacitance of CVTs for 400 kV and 220 kV systems shall generally be 4400/8800 pF as per PLCC requirements.

The rated burden of cores shall be selected close to the actual burden requirements of protection, metering, telemetry, and communication systems for better sensitivity and accuracy.

4.2.6 Surge Arresters

Station class, heavy duty, gapless metal oxide Surge Arresters conforming to IEC 60099-4 shall be provided. The rated voltage, thermal energy capability, and other characteristics of Surge Arresters shall be selected in accordance with system requirements and insulation coordination studies.

Surge Arresters shall be provided near line entrances, transformers, reactors, and other equipment as required for proper insulation coordination.

Surge Arresters shall be provided with porcelain or polymer housing fitted with pressure relief devices. Each Surge Arrester shall also be provided with a leakage current monitor and surge counter for condition monitoring and maintenance purposes.

4.2.7 Power Transformers

Codes and Standards

The equipment/material covered under this Specification shall conform to the latest editions, amendments, and revisions of applicable IEC Standards and other internationally accepted standards. In case of conflict, the requirements of this Specification shall prevail.

Standard	Description
IEC 61869	Instrument Transformers
IEC 60076	Power Transformers
IEC 60137	Bushings
IEC 60214	OLTC
IEC 60289	Reactors
IEC 60529	Degree of Protection
IEC 60815	Insulators
IEC 60947	LT Switchgear

4.2.8 Transformer Requirements

500MVA, 400/220/33kV, 3-Phase Auto transformer shall conform to IEC 60076 and latest CEA Standard Specifications for Transformers & Reactors 66 kV and above with latest amendments. Auto transformer shall be suitable for continuous operation under the specified system and site conditions. The transformers and associated accessories shall be designed to withstand thermal, dielectric, dynamic, and mechanical stresses arising under normal operating conditions and system faults.

The transformers shall withstand the specified over fluxing conditions and short-circuit withstand requirements in accordance with applicable IEC standards.

The cooling system, bushings, OLTC, protection, control, monitoring, and auxiliary systems shall be suitable for reliable operation under specified ambient conditions and system requirements.

Transformers shall be complete with all accessories and auxiliaries required for satisfactory operation, protection, monitoring, control, SCADA/SAS integration, and maintenance.

The RTCC and associated control systems shall be IEC 61850 compliant and suitable for remote operation, OLTC control, automatic voltage regulation, and parallel operation of transformers.

HV and IV bushings shall preferably be RIP/RIS type with composite insulators. The

transformer neutral shall be solidly grounded.

The major technical particulars / parameters of 500MVA, 400/220/33kV, 3-Phase Auto transformer are given below:

Sl. No.	Description	Unit	Technical Parameters
1	Rated Capacity (HV/IV/LV-Tertiary)	MVA	500/500/167 (Tertiary suitable for 5 MVA active loading)
2	Voltage Ratio (Line-Line)	kV	400/220/33
3	Frequency	Hz	50
4	Number of Phases	Nos.	3
5	Vector Group	—	YNaoD11
6	Cooling	—	ONAN / ONAF / OFAF or
			ONAN / ONAF / ODAF or ONAN / ONAF1 / ONAF2
7	Rating at Different Cooling Stages	%	60/80/100
8	Type of Transformer	—	Constant Ohmic Type Auto Transformer
9	Applicable Standard		IEC 60076 / IS 2026
10(a)	Impedance HV-IV (Max./Principal/Min. Tap)	%	10.3 / 12.5 / 15.4
10(b)	Impedance HV-LV (Principal Tap Minimum)	%	60.0 (Minimum)
10(c)	Impedance IV-LV (Principal Tap Minimum)	%	45.0 (Minimum)
11(a)	Maximum No-Load Loss	kW	≤ 90
11(b)	Maximum Load Loss at 75°C	kW	≤ 500
11(c)	Maximum I ² R Loss at 75°C	kW	≤ 375
11(d)	Maximum Auxiliary Loss	kW	≤ 15
12	Maximum Temperature Rise over 50°C Ambient	°C	Top Oil: 45°C; Winding: 50°C
13(i)	Windings		
	Lightning Impulse withstand Voltage		
	HV	kVp	1300
	IV	kVp	950
	LV	kVp	250
	Neutral	kVp	95
13(ii)	Chopped Wave Lightning Impulse Withstand Voltage		
	HV	kVp	1430
	IV	kVp	1045
	LV	kVp	275

Sl. No.	Description	Unit	Technical Parameters
13(iii)	Switching Impulse withstand Voltage		
	HV	kVp	1050
	IV	kVp	750
13(iv)	One Minute Power Frequency withstand Voltage		
	HV	kVrms	570
	IV	kVrms	395
	LV	kVrms	95
	Neutral		38
12(ii)	Tan Delta of Windings	%	≤ 0.5
14	Tap Changer & Tappings variation	—	OLTC with $\pm 10\%$ voltage variation in steps of 1.25% (17 steps) in common end of series winding for 400 kV variation
15	Maximum Partial Discharge at $1.58 \times U_r/\sqrt{3}$	pC	≤ 100
16	Maximum Noise Level	dB	≤ 80
17(i)	Bushing Rated Voltage (HV/IV/LV/Neutral)	kV	420/245/52/36
17(ii)	Minimum Rated Current (HV/IV/LV/Neutral)	A	1250/2000/3150/2000
17(iii)	Lightning Impulse withstand Voltage		
	HV	kVp	1425
	IV	kVp	1050
	LV	kVp	250
	Neutral	kVp	170
17(iv)	Switching Impulse withstand Voltage		
	HV	kVp	1050
	IV	kVp	850
13(vi)	One Minute Power Frequency withstand Voltage		
	HV	kVrms	695
	IV	kVrms	505
	LV	kVrms	105
	Neutral		77
17(iv)	Tan Delta of Bushings	%	≤ 0.5
17(v)	Maximum Partial Discharge of Bushings @ $1.58 \times U_r/\sqrt{3}$	pC	≤ 100
18	Insulating Oil	—	Virgin inhibited mineral insulating oil conforming to

Sl. No.	Description	Unit	Technical Parameters
			IEC 60296
19	Bushings	—	HV & IV: RIP/RIS composite type; LV: OIP/RIP/RIS
20	RTCC	—	IEC 61850 compliant with AVR, OLTC control & SCADA/SAS integration
21	Neutral Grounding	—	Solidly Grounded

4.2.9 Bus Reactor Requirements

Applicable Standards: IEC 60076-6, IEC 60289 and latest Central Electricity Authority Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class with amendments if any)

The 125 MVAR, 420 kV, 3-Phase Bus Reactor shall be oil immersed, outdoor type, suitable for continuous operation under specified system and site conditions. The reactor shall be designed to withstand thermal, dielectric, dynamic, and mechanical stresses during normal operating conditions, switching operations, and system faults.

The reactor shall be complete with all accessories including bushings, built-in CTs, marshalling kiosks, cooling equipment, protection, control, monitoring, and associated auxiliary systems required for satisfactory operation. HV bushings shall preferably be RIP/RIS type with composite insulators. The reactor shall be suitable for SCADA/SAS integration and reliable operation under specified ambient conditions.

The major technical particulars / parameters of 125MVAR, 420kV, 3-Phase Auto transformer are given below:

(i)	Rated Capacity at 420kV	125 MVAR
(ii)	Rated Voltage	420kV (1.0p.u)
(iii)	Standard	IEC 60076-6
(iii)	System fault level	63kA
(iv)	Connection	Star with neutral brought out (through 145kV class bushing)
(v)	Winding Insulation Level	
a)	Lightning Impulse 1.2/50 Micro Seconds Withstand Voltage HV Neutral	1300kV(peak) 550kV(peak)
b)	Switching Surge Withstand Voltage HV	1050kV (peak)
c)	One Minute Power Frequency Withstand Voltage HV	570 kV (rms)

	Neutral	230kV(rms)	
(vi)	Maximum admissible Temperature Rise over an ambient temp of 50 deg. C and at highest Voltage		
a)	Winding measured by resistance method	45 degree C	
b)	Top oil measured by thermometer	40 degree C	
(vii)	Cooling System	ONAN	
(viii)	Ratio Of Zero Sequence Reactance To Positive Reactance (X0/X1)	0.9 - 1.0	
(ix)	Range Of Constant Impedance	Upto 1.5 p.u.voltage	
(x)	Tolerance on current	0 to + 5%	
(xi)	The crest value of the third harmonic current component in phase current at rated voltage with sinusoidal waveform	Not to exceed 3% of the crest value of fundamental.	
(xii)	Permissible current unbalance among different phases	±2%	
(xiii)	Noise level at rated voltage and frequency	80db.	
(xiv)	Vibration level at rated voltage and frequency	Not more than 200 microns peak. Average vibration shall not exceed 60 microns peak to peak Stresses shall not exceed 2.0kg/mm ² at any point on the tank	
(xv)	Maximum permissible Losses of Reactor at voltage, frequency and at 750C(kW)	160	
(xvi)	Bushings	Line side	Neutral side
	a) Rated voltage	420kV	145kV
	b) Creepage distance (total)	13020mm	4495mm
	c) Mounting	Tank Cover	Tank Cover
	d) Lightning impulse withstand voltage(kVp)	1425	650
	e) Switching impulse withstand voltage(kVp)	1050	-
	f) Power frequency withstand voltage (kV)(rms)	695	305
	g) Rated current (Amps)	1250	1250

4.2.10 Protection Relaying and Control System

The protection relaying and control system for transmission lines, transformers, reactors, and busbars shall be designed to ensure fast and selective isolation of faults and abnormal operating conditions so as to minimize damage to equipment and maintain system stability.

All protective relays shall be numerical type, IEC 61850 Edition-2 compliant, and suitable for interoperability with RTU/SAS/IEDs of different OEMs over IEC 61850

communication protocol. Numerical relays shall have built-in disturbance recorder, event logger, fault locator, self-monitoring, and diagnostic features.

The relays and control system shall be suitable for integration with Substation Automation System (SAS), SCADA, and redundant communication architecture in accordance with applicable IEC standards.

The protection system for transformers and reactors shall comprise two independent protection groups with complete electrical and physical segregation to ensure redundancy and uninterrupted protection during maintenance or failure of one protection group.

a) Transmission Line Protection

400 kV, 220 kV, and 132 kV Transmission lines shall be provided with Main-I and Main-II numerical protection schemes with independent communication channels and carrier aided tripping features. Main-I and Main-II protection schemes shall preferably be of different makes to ensure redundancy and diversity.

Main-I and Main-II protection for transmission lines shall generally comprise three-zone distance protection schemes. However, for short transmission lines (generally below 30 km) having optical fibre communication, Line Current Differential protection may be adopted as Main-I and Main-II protection.

The protection schemes shall include power swing blocking, out-of-step protection, weak infeed logic, synchro-check, auto-reclosing, and fault locator functions as applicable.

All 400 kV transmission lines shall be provided with two-stage overvoltage protection and single-pole and three-pole auto-reclosing facilities. Distance-to-fault locators shall also be provided for fault location on transmission lines.

In case of LILO arrangements, protection coordination studies shall be carried out and necessary augmentation/modification of existing protection systems shall be undertaken as required.

b) Auto Transformer Protection:

Auto transformers shall be provided with the following protections:

- i) Numerical Differential Protection
- ii) Numerical Restricted Earth Fault (REF) Protection
- iii) Numerical Back-up Over Current and Earth Fault Protection on HV and IV sides
- iv) Numerical Over Fluxing Protection on HV and IV sides
- v) Numerical Overload Alarm

- vi) Numerical Back-up Impedance Protection, wherever applicable

The back-up Over Current and Earth Fault protection shall be independent and shall not be combined with other protection functions in the main relays.

In addition, transformers shall be provided with Buchholz relay, OLTC Buchholz protection, Magnetic Oil Gauge (MOG) with low oil level alarm, winding and oil temperature protection, pressure relief device, and other necessary supervisory alarms and protections.

Suitable protection, monitoring, and control shall also be provided for LT auxiliary transformers connected to the tertiary winding.

c) 420kV Reactor Protection

Reactor shall be provided with the following protections:

- i) Numerical Differential Protection
- ii) Numerical Restricted Earth Fault (REF) Protection
- iii) Numerical Back-up Impedance Protection

Besides the above, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures, pressure relief device and other necessary protections/monitoring features as applicable.

d) Numerical Bus Bar Protection

High speed numerical busbar differential protection shall be provided for 400 kV, 220 kV and 132 kV buses to minimize equipment damage and maintain system stability during busbar faults.

Duplicate busbar protection schemes shall be provided for 400 kV busbars. The busbar protection scheme shall operate selectively for each bus and shall incorporate all necessary features to ensure security, stability and reliability of operation.

The scheme shall be designed with provision for future bay expansion. In case of existing substations, the existing busbar protection scheme shall be augmented/modified wherever required

e) Numerical Local Breaker Back up Protection

Local Breaker Backup (LBB) protection shall be provided for each 400 kV and 220 kV circuit breaker and shall be arranged to de-energize the affected stuck breaker from both sides. The LBB scheme shall be numerical, high-speed, and compatible with IEC-61850

based Substation Automation System (SAS).

Notes:

1. LBB and Restricted Earth Fault (REF) relays shall be provided separately from the transformer differential relay.
2. LBB relay may also be provided as an in-built protection function of the distributed busbar protection scheme; however, in such case, separate LBB relay shall be provided for tie bays in One-and-a-Half Breaker Scheme.
3. Over-fluxing and overload protection may be provided as in-built features of the transformer differential relay.
4. All protection relays shall be numerical type and shall support IEC-61850 communication protocol for integration with SAS.

4.2.11 Substation Automation System

- a) A state-of-the-art Substation Automation System (SAS) conforming to IEC 61850 Edition-2 shall be provided. The SAS shall be based on distributed architecture wherein bay-wise control and monitoring functions shall be performed through Bay Control Units (BCUs) for all voltage levels of 132 kV and above.

All Bay Control Units (BCUs), protection Intelligent Electronic Devices (IEDs), meters, disturbance recorders, and other SAS devices shall be interconnected through redundant high-speed optical fiber Ethernet communication network. The SAS shall support peer-to-peer communication, interoperability, and seamless integration of all substation equipment in accordance with IEC 61850 requirements.

Control and monitoring functions including operation of circuit breakers, isolators/disconnectors, earth switches, alarm handling, relay indication, relay resetting, event monitoring, disturbance recording, and measurement functions shall be available from Human Machine Interface (HMI) stations located in the control room.

The SAS shall be equipped with facilities for local and remote operation. Suitable communication gateways, Remote Terminal Units (RTUs), communication processors, modems/routers, and redundant communication links shall be provided for data transfer, supervisory control, and telemetry integration with RLDC/SLDC and other control centers as required.

The SAS shall integrate functions such as control, supervision, annunciation, disturbance recording, Sequence of Events (SOE) logging, fault recording, trending, metering, and monitoring of electrical parameters. The system shall support remote

engineering access, diagnostics, and future scalability.

The SAS architecture shall include redundant servers, operator workstations, communication switches, and GPS based time synchronization system to ensure high availability and reliability. Cybersecurity features and access control mechanisms shall be provided in accordance with applicable CEA guidelines and relevant IEC standards.

Redundant station HMI, gateway, server, engineering workstation and communication switches shall be provided. Gateway shall communicate with RLDC/SLDC through IEC-60870-5-104 protocol with minimum 2+2 communication redundancy.

b) Time Synchronization Equipment

Time Synchronization Equipment complete in all respects including GPS/NavIC antenna, mounting accessories, lightning protection, cables, GPS clock receiver/server and associated processing equipment required to receive Coordinated Universal Time (UTC) signal through GPS/NavIC or National Physical Laboratory (NPL) through INSAT shall be provided.

The equipment shall synchronize SAS, IEDs, Event Loggers, Disturbance Recorders, PMUs, SCADA and other substation equipment. Time synchronization shall support SNTP/NTP, IRIG-B and IEEE-1588/PTP protocols as applicable.

The system shall conform to IEC-60255, IEC-61850 and IEC/IEEE-61850-9-3 requirements wherever applicable and shall provide synchronization accuracy suitable for protection, disturbance recording and process bus applications.

The equipment shall be suitable for future bay expansion and redundant communication architecture.

4.2.12 Substation Support Facilities

Necessary substation support facilities required for operation and maintenance of the substation including control room facilities, illumination system, firefighting system, water supply, drainage, security system, communication facilities and other associated utilities shall be provided for new substations.

(A) AC and DC power supplies

For meeting AC and DC power supply requirements of various substation equipment for present and future scope, the following arrangements shall be provided:

- i) At each new substation, two auxiliary transformers of adequate capacity (minimum 630 kVA for substations with highest voltage level of 400 kV) shall be provided with supply from two independent sources as per applicable CEA

Regulations. One shall be connected with Discom supply and other one shall be connected to tertiary of 400/220 kV transformer.

- ii) Necessary SEM metering arrangement shall be provided at 33 kV tertiary for auxiliary power supply accounting. Energy accounting shall be carried out by SLDC as per applicable regulations.
- iii) Two sets of 220 V DC battery banks for control and protection and two sets of 48 V DC battery banks for PLCC/communication equipment along with float-cum-boost type microprocessor based battery chargers shall be provided. Battery sizing shall consider present and future bays with required backup time as per relevant IS/CEA guidelines.
- iv) Suitable AC & DC distribution boards and associated LT Switchgear would be provided at new Substations. For new substations following switch boards with minimum rating as is specified here under shall be considered with duplicate supply:

a.	415V Main switch board	– 1 no.
b.	AC distribution board	– 1 no.
c.	Main lighting distribution board	– 1 no.
d.	Emergency lighting distribution board	– 1 no.
e.	220 volt DC distribution board	– 2 nos.
f.	48 volt DC distribution board	– 2 nos.
- v) One DG set of adequate capacity (minimum 250 kVA for substations with highest voltage level of 400 kV) shall be provided for emergency supply applications.
- vi) Necessary monitoring, alarm and status signals of AC/DC systems shall be integrated with SAS/SCADA system.

4.2.13 Fire Fighting System

Fire-fighting system for substations including transformers and reactors shall conform to the latest Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2023, TAC guidelines and other applicable standards/regulations amended from time to time.

The fire-fighting system shall generally comprise fire water storage tank, AC motor driven and diesel engine driven fire pumps, hydrant system, portable fire extinguishers, fire detection and alarm system, and automatic high velocity water spray (HVWS) system for transformers/reactors as applicable.

Heat/smoke detectors and fire alarm system shall be provided at sensitive locations such as cable vaults, control room building and other associated buildings. The main

firefighting header and associated facilities shall be designed considering future bay extension requirements with necessary interfaces/provisions.

4.1.16 Oil Evacuating, Filtering, Testing and Filling Apparatus

Necessary oil evacuating, filtering, testing and filling apparatus shall be provided at new substations for monitoring and maintaining transformer and reactor oil quality during commissioning and maintenance activities.

Oil storage tanks of adequate capacity shall also be provided for storage of transformer/reactor oil.

Online Transformer/Reactor Oil Drying Out System shall be provided in line with the latest provisions of the “Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)” issued by the Central Electricity Authority (CEA), as amended from time to time.

4.1.17 ILLUMINATION

Adequate normal and emergency AC and DC illumination shall be provided in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

Lighting of the entire control room building, fire-fighting pump house, other buildings (if any) and switchyard shall be carried out using LED based energy-efficient luminaries.

4.1.18 CONTROL ROOM

For new substations, a control room building shall be provided to accommodate Substation Automation System (SAS) workstations for station level control along with associated peripheral equipment, disturbance recording equipment, AC and DC distribution boards, DC batteries and battery chargers, fire protection panels, telecommunication panels and other associated panels/equipment as required.

Air conditioning system shall be provided in the control room building as per functional requirements.

Main cable trenches from the control room shall be designed with adequate space provision for laying of power and control cables for all envisaged future bays/extensions.

4.1.19 GIS HALL

The Gas Insulated Switchgear (GIS) and associated equipment of each voltage level shall be housed separately in dedicated GIS halls/buildings.

Separate rooms shall be provided within the GIS building for housing bay level units, bay mimic panels, protection and control panels, RTCC panels, PLCC/communication panels, SAS equipment and other associated panels/equipment.

The size of the panel room shall be adequate to accommodate panels/equipment for all envisaged future bays/diameters. The panel room shall be air-conditioned.

Further, temperature monitoring of the panel room shall be integrated with the Substation Automation System (SAS) through suitable temperature sensors/transducers.

Suitable EOT crane(s) shall be provided in each GIS hall for erection, handling and maintenance of GIS equipment and associated assemblies. The crane capacity shall be designed considering the heaviest GIS component/assembly to be handled and shall meet all operational and maintenance requirements of the GIS installation.

4.1.20 Control Concept

All the EHV circuit breakers in substations/switching stations shall be controlled and synchronized from the switchyard control room/Remote Control Centre (RCC).

Each circuit breaker shall be provided with two independent trip circuits connected to separate DC supplies for enhanced reliability.

All isolators shall be provided with remote as well as local control facilities, whereas earth switches shall have local control only.

4.1.21 General Facilities

- a) Suitable line termination structures/gantries/towers, as applicable, shall be provided for bays under the present scope. However, structures for adjacent future line bays shall be designed considering future extension requirements (Quad conductor for 400 kV lines and Twin conductor for 220 kV lines, wherever applicable).
- b) Bay extension works at existing substations shall be executed by the TSP in accordance with the applicable provisions and requirements. The interface points shall be finalized keeping in view the existing layout/design and operational arrangement of the substation.
- c) The TSP shall arrange construction power and water at its own cost.
- d) All outdoor steel structures including anchor/foundation bolts shall be hot dip galvanized. The minimum weight of zinc coating shall be 610 g/m². For coastal/creek areas, the minimum zinc coating shall be 900 g/m², wherever applicable.
- e) Boundary wall shall be provided along the complete substation perimeter including future switchyard/GIS expansion area to prevent encroachment and unauthorized access. The boundary wall may comprise brick masonry with RCC framing, stone

masonry wall or precast RCC wall. The minimum height of the boundary wall shall be 1.8 m above Finished Ground Level (FGL).

- f) All electrical equipment shall be installed above the Highest Flood Level (HFL). Wherever installation above HFL is not feasible, adequate measures shall be taken to prevent seepage, leakage, water logging or flooding of equipment areas, cable basements and trenches.
- g) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and CEA Manual on Transmission Planning Criteria, 2023, transmission lines approaching substations shall normally be perpendicular to the substation boundary for a length of about 2–3 km. Accordingly, the TSP shall ensure that line terminations are arranged to avoid hindrance to future line terminations/extensions at the substation.

B. SPECIFIC TECHNICAL REQUIREMENT FOR COMMUNICATION

The communication system shall conform to the applicable provisions of:

- (i) CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020;
- (ii) CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022;
- (iii) CEA (Cyber Security in Power Sector) Guidelines, 2021; and applicable communication/interface requirements issued by CEA/STU/SLDC from time to time.

Protection systems for transmission lines and associated line compensation equipment shall be provided with 100% redundant communication channels, i.e. two independent tele-protection channels along with one communication channel for speech and data in each direction.

Communication services such as SCADA, VoIP, AMR, PMU and AGC (wherever applicable) shall be provisioned with suitable redundancy for reliable real-time grid operation and data transfer to Main and Backup Control Centres/SLDCs.

Suitable redundancy at port, card and communication network level shall be ensured so as to eliminate any single point of failure.

PMU–PDC communication (wherever applicable) shall be provided through redundant communication channels as per prevailing SLDC/STU/CEA requirements.

All communication hardware and associated systems shall support reliable and redundant data transmission to the concerned SLDC/load dispatch centres and other authorized agencies as applicable.

1. Establishment of 400/220 KV, 3 × 500 MVA GIS substation Sector-28 YEIDA, GautamBuddha Nagar with 125 MVAR bus Reactor
 - (i) The TSP shall supply, install, test, and commission one or more Fiber Optic Distribution Panels (FODP) of minimum 120F capacity or higher, complete with panels, 48F approach optical fiber cables for each bay/line, associated hardware, splice trays, LIUs, connectors, accessories, and all necessary fittings from gantry tower to Control Room for all incoming lines/bays envisaged under the present scope.
 - (ii) The TSP shall supply, install, test, and commission STM-16 SDH/FOTE communication equipment along with associated panels supporting minimum eleven (11) communication directions with Multiplex Section Protection (MSP-1+1). The specified directions shall exclude protected local patching among communication

equipment, if any. The communication system shall support voice, data, telemetry, teleprotection, SAS, SCADA, and PMU communication requirements for associated substations and line bays. Suitable DC power supply system along with battery backup shall be provided for all communication equipment.

- (iii) FODP and FOTE/SDH communication equipment with associated panels shall be installed in the Control Room). FODP and FOTE equipment may be accommodated in common panels, wherever feasible, for optimization of space.
- (iv) The new communication equipment under the present scope shall be compatible with existing regional centralized Network Management System (NMS). The local configuration, testing, database creation, and commissioning of communication equipment shall be the responsibility of the TSP. Integration and configuration activities at existing centralized NMS shall be carried out by the SLDC team; however, all necessary technical support, software compatibility, and coordination shall be ensured by the TSP.
- (v) The TSP shall supply, install, test, and commission redundant Firewalls (1+1 configuration). Firewall configuration shall comply with applicable cybersecurity requirements, including relevant Central Electricity Authority guidelines and IEC 62351 standards.
- (vi) The communication system architecture shall support redundancy and future scalability. All Ethernet switches, routers, gateways, communication processors, and associated networking equipment shall be industrial-grade managed devices suitable for utility applications and compatible with IEC 61850 based SAS communication requirements.
- (vii) Time synchronization for communication and SAS equipment shall be achieved through GPS based clock synchronization system supporting IRIG-B/SNTP/PTP protocols, as applicable.
- (viii) The maintenance of all communication equipment including SDH/FOTE equipment, FODP, PMU, communication cables, DC power supply system along with battery bank, firewall, Ethernet switches, routers, and associated accessories shall be the responsibility of the TSP.

2. 400 kV Aligarh PG (765) – YEIDA Sector-28 D/C line (Quad Moose) (Proposed)

- (i) On the 400 kV D/C transmission line from 765 kV Aligarh (Powergrid) to 400 kV YEIDA Sector-28, the TSP shall supply, install, test, and commission one (1) number OPGW containing minimum 48 optical fibers (48F) on one earth wire

peak and conventional galvanized steel earth wire (GSW) on the other earth wire peak.

- (ii) The TSP shall install the OPGW from 765 kV Aligarh (Powergrid) to 400 kV YEIDA Sector-28 complete with all associated hardware and accessories including suspension assemblies, tension assemblies, vibration dampers, spacer dampers (wherever applicable), mid-way joint boxes, gantry joint boxes, terminal joint boxes, optical distribution interface units, earthing accessories, and all necessary fittings required for satisfactory operation of the OPGW system.
- (iii) The TSP shall be responsible for carrying out detailed link budget calculations and ensuring satisfactory communication performance under all operating conditions.
- (iv) The optical fibers shall conform to relevant IEC/ITU-T standards, including ITU-T G.652D or equivalent latest standards, suitable for utility communication applications. The complete OPGW system including optical fibers, hardware fittings, and accessories shall conform to applicable IEC standards and utility specifications.
- (v) The TSP shall carry out all necessary testing including OTDR testing, attenuation measurement, continuity tests, and end-to-end performance verification during commissioning of the OPGW communication link.
- (vi) The maintenance of OPGW cable, OPGW hardware fittings, joint boxes, approach cables, associated accessories, and complete OPGW communication infrastructure shall be the responsibility of the TSP.

3. FOTE Requirement for 400kV Line Bays at Remote End Substations

- (i) The TSP shall supply, install, test, and commission one (1) number Fiber Optic Distribution Panel (FODP) of minimum 72F capacity or higher, complete with panel, 48F approach optical fiber cable, splice trays, LIUs, patch cords, connectors, accessories, and all associated hardware fittings from gantry tower to Bay Kiosk and from Bay Kiosk to Control Room.
- (ii) The TSP shall supply, install, test, and commission one STM-16 SDH/FOTE equipment along with associated panels supporting minimum three (3) communication directions with Multiplex Section Protection (MSP-1+1). The communication equipment shall be provided with necessary interfaces to meet voice, data, SCADA, SAS, PMU, telemetry, and teleprotection communication requirements between all remote end transmission lines and 400/220 kV YEIDA Substation. Suitable DC Power Supply System (DCPS) along with battery backup

shall be provided for all communication equipment.

- (iii) The FOTE/FODP panels shall be installed in the new Bay Kiosk/Switchyard Panel Room (SPR). The FOTE equipment under the present scope shall be integrated by the TSP with the existing FOTE communication system at the Control Room of all remote end substations for onward communication with respective control centers. The TSP shall provide all necessary FODP sub-racks, splice trays, patch cords, optical interfaces, connectors, and associated accessories required for integration with existing FOTE/FODP panels.
- (iv) In case spare optical direction is not available in the existing FOTE at the Control Room, the TSP shall coordinate with the station owner for reconfiguration of existing FOTE directions. Alternatively, the TSP may integrate the FOTE under present scope with existing FOTE installed in nearby kiosk/panel room connected to the Control Room FOTE, subject to availability of spare directions. Necessary FODP sub-racks, splice trays, patch cords, optical interfaces, and associated accessories shall be provided by the TSP for such integration. FOTE and FODP equipment may be accommodated in common panels for optimization of space.
- (v) The new communication equipment under the present scope shall be compatible with existing regional centralized Network Management System (NMS). The local configuration, testing, database creation, and commissioning of the communication equipment shall be the responsibility of the TSP. Configuration activities in the existing centralized NMS for integration of new communication equipment shall be carried out by SLDC/NRLDC; however, all necessary technical support, software compatibility, and coordination shall be ensured by the TSP.
- (vi) The communication system shall be compatible with IEC 61850 based Substation Automation System (SAS) communication requirements and suitable for future integration with MPLS-TP/IP-MPLS based utility communication networks. All networking equipment shall be industrial-grade managed devices suitable for utility applications.
- (vii) The TSP shall carry out all necessary testing including OTDR testing, attenuation measurement, continuity checks, and end-to-end communication performance verification during commissioning.
- (viii) The maintenance of all communication equipment including FOTE, FODP, PMU, approach optical fiber cables, DCPS along with battery bank, networking equipment, and associated accessories shall be the responsibility of the TSP.

4. PLCC and PABX System

- (i) Power Line Carrier Communication (PLCC) equipment complete for speech, tele-protection, carrier inter-tripping, and data communication channels shall be provided for all transmission lines covered under the present scope, wherever required for compatibility with existing communication systems. The communication system shall ensure 100% redundancy for tele-protection channels.
- (ii) The PLCC system shall generally include coupling devices, coupling filters, line traps, carrier terminals, protection couplers, HF cables, terminal equipment, PABX/IP-PBX system (where applicable), maintenance instruments, testing equipment, and all associated accessories required for satisfactory operation.
- (iii) At new substations, an IP-based PABX/telephone exchange system of minimum 24 lines capacity shall be provided for effective communication among various substation buildings, control room, switchyard areas, remote end substations, RLDC/SLDC, and other control centers.
- (iv) Coupling devices shall be suitable for phase-to-phase coupling for 400 kV transmission lines. The pass band of coupling devices shall have adequate margin for future addition of communication channels. Necessary protection devices shall be provided for protection of personnel and low-voltage equipment against power frequency and transient over-voltages.
- (v) Line traps shall be broadband tuned and suitable for blocking the entire carrier frequency range. Necessary protective devices including lightning arresters shall be provided for protection of tuning units and associated equipment. Decoupling networks consisting of line traps and coupling capacitors shall be provided wherever required to mitigate frequency congestion.
- (vi) Carrier terminals shall support speech, teleprotection, telemetry, and data communication functions. The PLCC system shall be compatible with existing communication systems and teleprotection schemes at associated substations.
- (vii) The carrier terminals shall be of single side - band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminal & Protection coupler shall be considered at both ends of line.
- (viii) PLCC equipment for all transmission lines covered under the present scope shall consist of one set of analog PLCC channel along with protection coupler and one set of digital protection coupler for each circuit at both ends, unless otherwise

specified. CVTs and wave traps for all line bays under present scope shall also be provided by the TSP.

Sl. No	Line name	PLCC configuration
1	400 kV Aligarh PG (765) – YEIDA Sector-28 D/C line (Quad Moose)	1set Analog PLCC + 1set Digital Protection Coupler for each circuit at both ends.

- (ix) The TSP shall undertake all necessary additions, modifications, shifting, reconfiguration, testing, and re-commissioning of PLCC equipment associated with LILO of transmission lines, wherever applicable.
- (x) The PLCC system shall be compatible with OPGW based communication network, SDH/MPLS communication system, and IEC 61850 based SAS communication architecture.
- (xi) All associated equipment including cabling, coupling devices, HF cables, patch panels, connectors, terminal accessories, and earthing materials shall be provided by the TSP.
- (xii) Two (2) sets of 48 V battery banks complete with battery chargers and DC distribution system shall be provided for PLCC and communication equipment at each new substation. The battery system shall provide minimum 10-hour backup duration or higher, as required by system design criteria.
- (xiii) The maintenance of complete PLCC and associated communication infrastructure including PLCC equipment, PABX/IP-PBX system, wave traps, CVTs, coupling devices, HF cables, battery systems, and associated accessories shall be the responsibility of the TSP.

5. Specific Requirement for Phasor Measurement Units (PMUs)

- (i) The Transmission Service Provider (TSP) shall provide, install, test and commission Phasor Measurement Units (PMUs) along with all associated equipment, software, GPS synchronization system, communication interfaces and integration facilities in accordance with:
 - (1) CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and amendments thereof,
 - (2) latest “Unified Philosophy for Placement of PMU in Indian Grid” issued by CEA,
 - (3) CERC communication/interface requirements,
 - (4) NLDC/RLDC/SLDC requirements,
 - (5) IS/IEC 60255-118-1.

(ii) PMU measurements shall cover at minimum:

- (1) 400 kV bus voltage(s)
- (2) Both circuits of 400 kV D/C Aligarh line
- (3) All 3×500 MVA ICT bays
- (4) Bus coupler / bus sectionalizer bays (if applicable)
- (5) Reactor bays, if provided
- (6) Any additional bay identified by SLDC/RLDC during detailed engineering.

(iii) The PMU system shall be sized such that:

- (1) complete observability of the substation is achieved,
- (2) no additional hardware is required for future extension up to ultimate configuration.

(iv) The bidder shall assess required number of PMU devices based on:

- (1) number of analog channels,
- (2) redundancy requirements,
- (3) communication architecture,
- (4) future bay provisions.

(v) The PMU system shall include:

- (1) GPS/IRIG-B time synchronization,
- (2) Fiber optic communication interface,
- (3) Connectivity to SLDC/RLDC Phasor Data Concentrator (PDC),
- (4) Should support IEEE C37.118 Standards,
- (5) Integration with SAS/SCADA.

Necessary FOTE/PLCC/OPGW interface equipment required for PMU data transfer shall be under TSP scope.

(vi) PMU shall:

- (1) comply with IS/IEC 60255-118-1,
- (2) support dynamic and steady-state synchrophasor measurements,
- (3) have disturbance/event recording capability,
- (4) support configurable reporting rates,
- (5) support cyber security requirements of CERT-In/CEA/CERC.

(vii) The PMU system including:

- (1) hardware,
- (2) software licenses,
- (3) engineering,
- (4) testing,

- (5) integration,
- (6) communication equipment,
- (7) configuration at SLDC/RLDC end,
- (8) interoperability testing, shall be in TSP scope.

6. ABT Metering System

- (i) The TSP shall supply, install, test, and commission all equipment associated with ABT compliant Special Energy Metering (SEM) system for all interconnecting feeders, ICTs, bus couplers, reactors, generating station interfaces, and other points as specified under the present scope, in accordance with the latest applicable regulations, standards, and guidelines issued by Central Electricity Authority, Central Electricity Regulatory Commission, RLDC/SLDC, and other statutory authorities.
- (ii) The ABT meters shall conform to the latest CEA “Installation and Operation of Meters” Regulations and applicable standards including IS 14697, IEC 62052, IEC 62053, and CBIP technical guidelines, as amended from time to time.
- (iii) The ABT meters shall be fully static, tri-vector, microprocessor-based, draw-out type, suitable for CT/PT operated connection, and capable of recording active energy, reactive energy, apparent energy, voltage, current, frequency, demand, power factor, tamper events, and time synchronization information.
- (iv) The meters shall have accuracy class of 0.2S or better for active energy measurement and shall support Time of Day (TOD) metering, load survey, event logging, tamper detection, and disturbance recording features.
- (v) Main meters, check meters, and standby meters shall be provided as per applicable CEA/CERC metering regulations and utility requirements. The complete metering scheme shall ensure redundancy, reliability, and accuracy for energy accounting and commercial settlement purposes.
- (vi) ABT meters shall be provided with suitable communication ports and shall support remote data acquisition through optical port/Ethernet communication using DLMS/IEC compatible protocols. Necessary communication infrastructure including meter data acquisition system, modems, Ethernet switches, serial converters, communication cables, and associated accessories shall be provided under the scope of TSP.
- (vii) All ABT meters shall be integrated with Automatic Meter Reading (AMR)/Meter Data Acquisition System (MDAS) and compatible with SLDC/RLDC energy accounting systems. Necessary software, hardware interfaces, communication

gateways, and integration support required for remote downloading and data transfer shall be provided by the TSP.

- (viii) Time synchronization of ABT meters shall be achieved through GPS based clock synchronization system using suitable synchronization protocol. The meter clocks shall support automatic synchronization with substation master clock system.
- (ix) The TSP shall provide separate, adequately illuminated, dust-free, and air-ventilated metering panels/cubicles for installation of ABT meters and associated communication equipment. Metering panels shall be provided with necessary test terminal blocks, sealing arrangement, MCBs, space heaters, and anti-condensation features.

SLD OF SUBSTATION

