

CORRIGENDUM NO. 03 DATED: 22.04.2025

TO

BIDDING DOCUMENT

TENDER NO.: TUSCO/CSPP/IPEI/2024-25/11

Subject: “220kV AIS Substation Package for construction of two Pooling substations (PSS1 & PSS2) of 33/220 kV capacity and 220 kV transmission lines up to 220kV side (incomer) of 220/400 kV Grid Sub-station (GSS) to evacuate power from 500MW & 300MW capacity block Solar Park Project at Mau, Chitrakoot (U.P.)”

This is to inform all the concerned that the following clarifications/amendments have been made in the subject bid:

Queries and Clarifications for tender no. TUSCO/CSPP/IPEI/2024-25/11 for 220kV AIS Substation Package for construction of two Pooling substations (PSS1 & PSS2) of 33/220 kV capacity and 220 kV transmission lines up to 220kV side (incomer) of 220/400 kV Grid Sub-station (GSS) to evacuate power from 500MW & 300MW capacity block Solar Park Project at Mau, Chitrakoot (U.P.)

S.No.	Specification Details	Bid document page No	Bid Provisions	Query/Clarification sought/Suggestion raised by the bidders	TUSCO's Responses/Clarifications
1	Performance Securities:-	GCC Sub-clause 22.2(i)	Performance Security in the amount equivalent to five percent (5%) of the Supply Price of (220KV class) Current Transformer/ Capacitive Voltage Transformer / Circuit Breaker with a validity upto Sixty (60) days beyond the Defect Liability Period for said equipment	As per our understanding BG will be submitted upto contract period+Defect liability period+60 days beyond defect liability period which is in months 12+60+2=74 Months	Bidder Understanding is correct. However, tender terms and conditions shall prevails.
2	Performance Securities:-	GCC Sub-clause 22.2(ii)]	Performance Security in the amount equivalent to five percent (5%) of the balance Contract Price for all equipment/materials other than those specified in (i) above, with a validity upto Sixty (60) days beyond the Defect Liability Period, applicable for said equipment	As per our understanding BG will be submitted upto contract period+Defect liability period+60 days beyond defect liability period which is in months 12+60+2=74 Months	Performance Security in the amount equivalent to five percent (5%) of the balance Contract Price for all equipment/materials other than those specified in (i) above, with a validity upto Sixty (60) days beyond the Defect Liability Period, applicable for said equipment. BG as a performance security will be submitted upto contract period+Defect liability period+60 days beyond defect liability period.
3	Time for completion	GCC 22.1:	Duration of months from the date of issuance of NOA.	As per general practice with Other utilities (state or PSU) minimum completion time for 220 kV Rating GSS or line is 15 to 18 Months. As supply of major equipments is not possible for any OEM.	Existing bid provision shall prevail
4			Unless otherwise indicated, all personnel, facilities, works and supplies will be provided free of charge to the Contractor. Personnel Charge to Contractor None -----NIL----- ----- Facilities Charge to Contractor - None except as noted Electricity and Water Charge to Contractor - as noted The Contractor shall be entitled to use for the purposes of the facilities such supplies of electricity and water as may be available on the Site and shall provide any apparatus necessary for such use. The Contractor shall pay the Employer at the applicable tariff plus Employer's overheads, if any, for such use. Where such supplies are not available, the Contractor shall make his own arrangement for provision of any supplies he may require. Works Charge to Contractor - None -----NIL----- Supplies Charge to Contractor - None -----NIL-----	As per our understanding Water & Electricity will provide by employer/Tusco. However Contractor shall pay employer at applicable tariff plus employer overheads.	The contractor has to arrange by their own, construction water (either ground water or supply tanker) as well as construction power (Contractor may obtain connection from local DISCOM).
5			Providing drawings and data at tender stage.	SLD Layouts available only for PSS1, please provide Drawings for PSS2 also.	Already uploaded in Data room (As per BDS)

6	Price Variation Clause	Attachement 12/ Appendix-2 Price Adjustment	Contract Price shall remain firm till the commissioning and completion of the facilities. No price escalation shall be payable by Employer.	In current market scenario where Equipments/ structure items prices are varying in every 2 days, Without Price Adjustment/Escalation it will be very tough to provide competitive prices for contractors as well as OEM's. We request to add price adjustment on certain components like iron/ copper	Existing bid provision shall prevail
7		Page no. 394	1.10.10 Civil Foundation for Switchyard Equipments,	Measurement of RCC foundation is in Cubic Meter. RCC shall be erected based on preapproved design from consultant. Payment shall be made on supply + installation rates as applicable	Civil foundations are considered as a lumpsum/lot in BOQ items. Contractor has to provide civil design and calculation for all foundation and get it approved from TUSCO.
8		Page no. 854	1.6 Design, Fabrication, Stamping and Galvanising of tower Materials.	Model and got approved from M/S. TUSCO LTD. at no extra cost to the M/s. TUSCO LTD. Required design data will be provided by M/s. TUSCO LTD.	Tower design and fabrication details shall be submitted by contractor and get it approved from TUSCO.
9		PART 1 (TECHNICAL SPECIFICATIONS) 1.3 Drawings & Bills of Materials, Page no. 954	PART 1 (TECHNICAL SPECIFICATIONS) 1.3 Drawings & Bills of Materials	The Bidder shall provide one set of detailed drawing to the successful contractor for various material like accessories, danger board & number plates to be procured by the Contractor.	The Contractor shall provide set of detailed drawing & get it approved from TUSCO Limited for various material including accessories, danger board & number plates to be procured by the Contractor. Contractor shall provide 3 sets of hard copy of approved detail drawing, BOM, detail design and calculation to TUSCO Limited.
10		Page no. 970	Clause 3.3 HANDING OVER OF LINE DOCUMENTS:	On completion of all erection activities, the Contractor has to furnish the following information along with technical details to the concerned Engineer-in-Charge of the work in triplicate duly bound: 1) Approved surveyed route with permanent marks (To be obtained from the TUSCO) 2) Approved copy of profiles with tower schedule (To be obtained from the TUSCO except for portion where any change is approved) 3) Location-wise soil strata details of each pit excavated, type of foundation executed, volumes of excavation & concrete and RCC steel weights, 4) Details of revetment, retaining walls, etc., work done for protection of tower footing and their approved drawing copies, 5) Approved copies of excavation plan and foundation drawings (To be obtained from the TUSCO) 6) Approved copies of structural drawings of stubs, templates, towers, extensions, etc., (To be obtained from the TUSCO)	It is clarified that the Contractor shall provide set of detailed drawing, BOM, design, Calculation & get it approved from TUSCO Limited for all foundation, erection activities associated with Substation, Substation equipment & Transmission Line towers & for various material like Substation equipment, Towers, accessories, danger board & number plates etc. to be procured by the Contractor. Contractor shall provide 3 sets of hard copy of approved detail drawing, BOM, detail design and calculation to TUSCO Limited.

11		Page No. 985	1.3.1 Step Bolts & Ladders,	For special towers, ladders along with protection rings as per the Employer approved drawing/design shall be provided	Reply same as mentioned in this regard, herein at S. No. 10
12		Page no. 1002	2.9.3 STUB SETTING TEMPLATES / PROPS	Individual leg template may be used for towers with very broad extensions. The employer will provide drawing or design	Reply same as mentioned in this regard, herein at S. No. 10
13		Bid_Document_01.04.2025_QR	<p>1.0 TECHNICAL EXPERIENCE</p> <p>1.1 Bidder must have erected, tested and commissioned as a prime contractor* under a single contract, at least two (2) nos. AIS^ Circuit Breaker equipped bays of 220kV or above voltage level in one (1) substation or switchyard during last seven (7) years and these bays must be in satisfactory operation# as on the originally scheduled date of bid opening as per NIT.</p> <p>Note-1 (*) : In case of works executed under a contract that had been awarded on a Joint Venture, the experience of individual Joint Venture partner shall be considered limited to the scope of that partner under the said contract.</p> <p>Note-2 (#): Satisfactory operation means certificate issued by the Employer certifying the operation without any adverse remark.</p> <p>Note-3 (^) : AIS means Air Insulated Substation</p> <p>Note-4: In case bidder is a holding company, the technical experience referred to in clause 1.1 shall be of that holding company only (i.e. excluding its subsidiary/group companies). In case bidder is a subsidiary of a holding company, the technical experience referred to in clause 1.1 shall be of that subsidiary company only (i.e. excluding its holding company).</p>	<p>We would like to confirm to interest in participate in subject tender. In this regards request you to consider the following.</p> <p>We have successfully Tested & commissioned 220kV and above voltage class GIS substation / Switchyard* in GETCO & many state Govt. Utilities.</p> <p>As the GIS is latest technology in current market kindly request you consider the GIS substation and also request you to incorporate GIS also in the clause as below:</p> <p>1.1 Bidder must have erected, tested and commissioned as under a single contract, at least two (2) nos. GIS or AIS^ Circuit Breaker equipped bays of 220kV or above voltage level in one (1) substation or switchyard during last seven (7) years and these bays must be in satisfactory operation# as on the originally scheduled date of bid opening as per NIT.</p>	<p>1.0 TECHNICAL EXPERIENCE</p> <p>1.1 Bidder must have erected, tested and commissioned as a prime contractor* under a single contract, at least two (2) nos. Circuit Breaker equipped bays of 220kV or above voltage level in one (1) substation or switchyard during last seven (7) years and these bays must be in satisfactory operation# as on the originally scheduled date of bid opening as per NIT.</p> <p>Note-1 (*) : In case of works executed under a contract that had been awarded on a Joint Venture, the experience of individual Joint Venture partner shall be considered limited to the scope of that partner under the said contract.</p> <p>Note-2 (#): Satisfactory operation means certificate issued by the Employer certifying the operation without any adverse remark.</p> <p>Note-3 (^): Removed</p> <p>Note-4: In case bidder is a holding company, the technical experience referred to in clause 1.1 shall be of that holding company only (i.e. excluding its subsidiary/group companies). In case bidder is a subsidiary of a holding company, the technical experience referred to in clause 1.1 shall be of that subsidiary company only (i.e. excluding its holding company).</p>
14		Bid_Document_01.04.2025_Time Period	12 Months (for Supply, Install & Commissioning in all respect)	<p>The scope is include Circuit Breaker, Insulator & Instrument Transformer and all manufacturer are fully accupaid.</p> <p>we have dicussed manufactuer for their delivery time and they have informed mimimun 12 - 14 months for delivery. Considering above circumtanses, kindly request you to provide us minimum 15 to 18 month for completion of project.</p>	Existing bid provision shall prevail

15		Bid_Document_BDS_ITB- ITB 13.1	Earnest Money Deposit (EMD) / Bid Security	<p>In Most of utilities like PGCIL, OPTCL and other state utilities are provide us EMD & Tender Fees examption for MSME bidder as per below caluse.</p> <p>Micro and Small Enterprises (MSEs) registered with Udyam Registration Portal as specified by Ministry of Micro, Small and Medium Enterprises are exempted from submission of EMD & fee towards the cost of Bidding Documents as per the Provisions of the Public Procurement Policy for Micro and Small Enterprises (MSEs) order 2012, Notification dated 01/06/2020 and 26/06/2020 read in conjunction with related notifications issued from time to time for such enterprises.</p> <p>In the view of above, Kindly request you to provide us examption in EMD for MSME bidder for further participation.</p>	Existing bid provision shall prevail.
16		Attachment 12 / Appendix 2 PRICE ADJUSTMENT	1. Contract Price shall remain firm till the commissioning and completion of the facilities. No price escalation shall be payable by Employer.	Due to current volatility and fluctuations in market prices kindly request you to provide us with price variation as IEEMA for the following items, Structural Steel & Earthing, Circuit Breaker, Cable, Conductor, reinforcement steel & concrete.	Existing bid provision shall prevail.
17		Civil Works	Control Room Building Drawing.	Kindly request you to provide us Control Room Building drawings.	Reply same as mentioned in this regard, herein at S.No.10
18		Civil Works	Substation Equipment Foundation drawings	Please provide us Substation Equipment Foundation drawings.	Reply same as mentioned in this regard, herein at S.No.10
19		Civil Works	Tower Foundation and structure drawings	<p>We have read the complete tender documents but we have not found any Tower Foundation and structure drawings to calculate the quantities.</p> <p>Kindly request you to provide us foundation drawings.</p>	Reply same as mentioned in this regard, herein at S.No.10
20		Sch 3 BOQ Sr. No. 1	Survey Report	<p>Transmission line overall Length as mentioned in Schedule 3 BOQ - 5.8 KMs.</p> <p>We Understand that only 5.8 KMs Survey to be required. Kindly Confirm</p>	Transmission line length as tentative is given in BOQ. Contractor has to do the line route survey and propose actual line length required (as best alternative) to TUSCO & get it approved from TUSCO Limited including respective approvals and estimated timelines.
21		General	Approved Vendor list	Kindly request you to provide us M/s. TUSCO approved substation & Transmission line equipments vendor list.	Contractor may consider approved list of equipments from PGCIL/UPPTCL. However contractor has to provide detail OEM list to be proposed and get it approved from TUSCO limited.
22		Sch 1 & Sch 2 BOQ Sr.No. 9.1	33kV Switchyard BOQ	Kindly request you to provide us complete BOQ for 33kV Switchyard.	33KV Indoor panel to be considered and tentative SLD of 33KV is given.

23		General	33 KV Surge Arrestor	33kV Surge Arrestor line item are not given in BOQ. Hence, request you to confirm 33kV Surge Arrestor Indoor type or Outdoor type ?	33KV Indoor pannel to be considered and tentative SLD of 33KV is given.
24		Sl.No 25 (Schedule-1 & Schedule 2, Substation ELV & Energy Monitoring Systems)	In the attached tender documents Technical Specifications is not available	Requested to share the Technical Specifications for the Substation ELV & Energy Monitoring Systems	All required systems to be designed in line with relevant guidelines and standards issued by concerned authorities and submitted for approval of TUSCO Limited. Specific query shall be adhered during detailed engineering.
25		Annexure-3(Bid Document) (Page No 545)	Proposed Make list	We will be going ahead with PGCIL / UPPTCL approved vendors. Pls confirm.	Contractor may consider approved list of equipments from PGCIL/UPPTCL. However contractor has to provide detail OEM list to be proposed and get it approved from TUSCO limited.
26		Sl.No 15, Schedule-3 & 4 (Line Instruments)	In the attached tender documents Technical Specifications is not available	Requested to share the Technical Specifications for the Line instruments such as Tower footing earth impedance measuring equipments & Long range ultrasound sensors	Contractor to propose the same during detail engineering stage for approval of TUSCO Limited.
27		Sl.No 19.1 till 19.14, Schedules-1 & 2	Safety Items	Requested to share the Technical Specifications for the safety items mentioned in BoQ.	Contractor to propose the same during detail engineering stage for approval of TUSCO Limited.
28		Sl.No 9.1.1 & Sl.No 23.1 in Schedule 1 & Schedule-2, Substation Automation Systems (SAS)	Substation Automation Systems (SAS)	In the BoQ Schedule-1 & Schedule-2, SAS Provision is repeated in Sl.No's (9.1.1 & 23.1). Pls clarify.	SAS Panel shall be considered in sr no. 9.1.1 and BCU panel & other electrical equipment mentioned in BOQ shall be considered in 23.1.
29		Sl.No 10.1.4, 10.1.5 & 10.1.6 (Battery Systems) in Schedules-1 & 2 of BoQ	Battery Systems	In the BoQ, for the 48V, 25AH VRLA SMF Lead Acid Battery, Chargers, & for the DCDB -2 for battery Systems the AH Capacity should be 250 AH instead of 25AH. Please clarify.	Consider 100 AH for specific BOQ Line items of Sr No. 10.1.4, 10.1.2 and 10.1.6
30		Sl.No 3.1 & 3.1.1, 3.1.2, & 3.1.3 for the Supply of Isolators in Schedules- 1 & 2 of BoQ	Isolators	As per the BoQ, the supply of isolators it is mentioned in Sl.No 3.1.1-3.1.3 that it should be Double Break. But in Sl.No 3.1 it is mentioning Double Break (Centre Break). Further, as per TS page no 605, Clause No 4.0 type of isolators will be Double break type. Pls clarify	Use Horizontal double break (center rotating pole), as indicated in drawing/spec Cl 2.07-A.
31		As per BoQ Sl.No 3.1.3 to 3.1.3 for the Supply of Isolators in Schedules- 1 & 2 of BoQ	Isolators	As per TS, Page No 605, Clause No 5.0 the current rating of isolators is 1600A, but as per BoQ it is mentioned 2000A. Pls clarify.	Rating of 2000 A to be considered as per BOQ
32		Page No 555, Annexure-1(Bid Document) for the Current Transformers	Current Transformers	As the Type of Current Transformer is Outdoor, Oil filled, Dead Tank is required, for this type of current transformer the Type test reports of the reputed make/proposed make is not available. So it is requested to consider the Live tank CT in this case.	Bid terms and conditions shall prevail.

33		SL.No 5.1 of the Schedules-1 & 2 for the Lightning Arresters	Lightning Arresters	As per the BoQ Sl.No 5.1 of the Schedules-1 & 2 for the Lightning Arresters the 10KA, Class 4 is mentioned, it should be 10KA , Class 3.Pls clarify	It shall be allowed as per CEA guidelines.
34		Page No 430 (Clause No 8)	General Query	Type test reports validity 10 years applicable to all the equipments; but we are proposing type test of 11 years old from GE for breaker since delivery timeline is less than that of others.	It shall be governed by the CEA guidlienes.
35		Clause No 15, Page no 6 of the Bid Document	Time period	It is requested to extend the time period for the completion of the project to minimum 18 Months as for the few items like Circuit Breakers, the delivery is not available.	Bid terms and conditions shall prevail.
36		Clause No 1.32, Page no 669 of the Bid Document	General Query	Requested to share the Technical specification / scope of work for Substation structure	Reply same as mentioned in this regard, herein at S.No.10
37		Clause No 2.10, Page no 966 of the Bid Document	General Query	Requested to provide the Tower spotting data along with TL Route alignment along with Drawings and BOM for Transmission line portion	Reply same as mentioned in this regard, herein at S.No.10
38		Clause No 1, Page no 976 of the Bid Document	General Query	Please confirm regarding re-doing of Soil investigation in respect to the existing report.	Contractor has to do soil investigatrion, contour and topograohy survey and hydrology survey and other studies as deemed required, of the PSS land area. Based on the these survey results, Contrator has to propose the civil design, drawings and calculation for the approval of TUSCO Limited.
39		Clause No 2.5.6, Page no 999 of the Bid Document	General Query	Requested to provide/release the standard civil foundation drawings for Transmission line part along with substation portion.	Civil foundations are considered as a lumpsum/lot in BOQ items. Contractor has to provide civil design and calculation for all foundation and get it approved from TUSCO.
40		Clause No 2.14.3, Page no 1003 of the Bid Document	General Query	Requested to share the KMZ File for the transmission line tower locations points	Already uploaded in the Data room
41		Clause No 1.4 (A), Page no 853 of the Bid Document	General Query	Requested to share the Standard UPPTCL Transmission Line Tower Drawings	Reply same as mentioned in this regard, herein at S.No.10
42		Data Shared with prospective Bidders	General Query	Requested to share the Geo Technical Investigation Reports,Chitrakoot Solar Park Disclaimer,Geo Coordinates of PSS & Topography Survey Map as the pdf documents shared is not supported and as well as not opening in the systems.	Contractor has to do soil investigatrion, contour and topography survey and hydrology survey and other studies as deemed required, of the PSS land area. Based on the these survey results, Contrator has to propose the civil design, drawings and calculation for the approval of TUSCO Limited.
43		In the Price Schedules 1, Sl.No 2.1.4.	Junction Box	The Junction Box quantity should be 6 in total as by considering the Tariff PT.	JB required shall be as per approved drawing in line with STU requirement.
44		In the Price Schedules 1 Sl.No 1.2	Junction Box	The Junction Box quantity should be 9 in total as by considering the Tariff PT.	JB required shall be as per approved drawing in line with STU requirement.
45		In the Price Schedules 2, Sl.No 1.2	Junction Box	The Junction Box quantity should be 6 in total as by considering the Tariff PT.	JB required shall be as per approved drawing in line with STU requirement.
46		In the Price Schedules 2, Sl.No 2.1.4	Junction Box	The Junction Box quantity should be 4 in total as by considering the Tariff PT.	JB required shall be as per approved drawing in line with STU requirement.

47		In the Price Schedules 1&2 Sl.No 5.2	Bus Post Insulators	The BPI should be in total 35 (PSS-1) & 25 in total for (PSS-2)	Final quantity shall be governed as per approved drawing during detailed engineering.
48		220 KV Switchyard Plan for Chitrakoot North Pooling Substation -1 &2 (SLD shared along with the Prospective Bidders)	Technical Query	As per CEA Guidelines,For 220 KV & Above, there must be road provision provided for breaker maintenance.If we be considering the road then BPI quantity will increase subsequently for road crossing. Pls clarify.	Design of pooling substations should be governed by guidelines and standards issued by Concerned authorities. Variation in quantity of BPI shall be decided during detailed engineering. Contractor to propose best alternative during design & engineering stage.
49		In the Price Schedules 1&2 Sl.No 10.1.4 to 10.1.6	DC Supply System	As per BoQ the quantity for 48V Battery & Chargers is 1 & and as per TS (Page No 684) the Quantity is 2. Further, the DCDB- 2 Quantity should also be 2. Pls clarify.	Please Follow BOQ. Variation may be decided dring detailed engineering.
50		Clause No G-4 Page no 385 of the Bid Document	DC Supply System	Requested to please clarify the Battery System Ratings. As in BoQ 220V & 48V ratings are mentioned but in TS 110 V rating is present.	Please Follow BOQ
51		Clause No 1.7, Page no 835 of the Bid Document	General Query	Requested to confirm the Scope of Annual Maintenance Contract(AMC).	Please follow BOQ. AMC is not under purview of this contract.
52			PROFORMA OF BANK GUARANTEE FOR BID SECURITY (EMD) Condition of obligation 2.(a)	It is mentioned that a. fails to give unconditional acceptance to Letter of award within.....days of issue of Letter of Award or email of Award. Kindly confirm the Days for our understanding.	After identification and acceptance of the successful bidder, TUSCO Limited will send a LoA for unconditional acceptance, signature and return. The contractor should acknowledge and unconditionally accept, sign, date and return the LOA within 07 (Seven) days from the date of issue of the LOA.
53			Last Paragraph of EMD	It is mentioned that This Guarantee will remain in force up to and including the datedays after the date of the opening of the bids as stated in the Invitation to Bid or as extended by Client at any time prior to this date notice of which extension to the bank being hereby waived, and any demand in respect thereof should reach the Bank not later than the above date. The Bank undertakes to extend the validity period of the Bank Guarantee in case the bidder extends the validity of the bid. Which date will come (date of submission, opening or date of Validity) Kindly confirm	It shall be governed as per tender terms and conditions.
54			Bid security	The bid security (EMD)can be submitted in Insurance Surety Bond, but the format for Insurance Surety Bond is missing in the tender.	The format for Bank Guarantee for Bid security(EMD) may be used for Insurance Surety Bond purpose.
55			Performance Security	We wish to further ask whether Insurance Surety Bond can also be submitted for in lieu of "Performance Security" and "Mobilization Advance", kindly clarify !!	The Insurance Surety Bond may be furnished for "Perfromance Security".The format for Bank Guarantee for Perfromance Security may be used for Insurance Surety Bond purpose. However, unconditional BG is to be furnished for "Mobilization Advance" in line with Bid provisions.

All other terms & conditions of the tender shall remain unchanged.

The complete Tender Document is available on Central Public Procurement (CPP) Portal Website: <https://eprocure.gov.in/eprocure/app>.

Subsequent Clarification /Amendment/ Corrigendum, if any, shall be uploaded on the above website only.

AGM (C&MM)
TUSCO Limited, 4th Floor UPNEDA Bhawan
Vibhuti Khand Gomti Nagar, Lucknow,
Uttar Pradesh (India),
E-mail: tuscosolar@thdc.co.in

-----O-----