

CORRIGENDUM NO. 04 DATED: 14.04.2025

TO

GeM Bid No. - GEM/2025/B/6031786

TENDER NO.: TUSCO/CSPP/TRF/2024-25/10

Subject: Design, engineering, manufacture, testing at manufacturer's works, supply, transportation, unloading and delivery at site including insurance & storage, erection, testing and commissioning of 33/220 KV power transformer with rated capacity of 4 nos. x 125mva & 3 nos. x 100mva for pooling substations (pss1 & pss2) at 800 mw 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:

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

The complete Tender Document is available on Government e Marketplace (GeM) Portal Website:
<https://gem.gov.in/>

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**

	Response to queries of Tender For "Design, engineering, manufacture, testing at manufacturer's works, supply, transportation, unloading and delivery at site including insurance & storage, erection, testing and commissioning of 33/220 KV power transformer with rated capacity of 4 nos. x 125mva & 3 nos. x 100mva for pooling substations (pss1 & pss2) at 800 mw solar park project at mau, chitrakoot (U.P.)"			
	Bid document page No	Bid Provisions	Query/ Clarification sought/ Suggestion raised by the bidders	TUSCO's Response / Clarifications
1	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	Price Variation Clause – Due to imported contents of Raw material and uncertain geo-political environment of the world , it is very difficult to predict input material cost for a period of 6-8 months in advance . Also all the utilities / Power Transmission /Generation Organisations viz NTPC, Power Grid and other Private entities are accepting PV Clause in their Tenders / PO. For your ready reference , PO from NTPC and a Tender Document of NTPC is attached. We have already shared UPPTCL's Tender Document for the same. (Page no. 6 Clause 19 of PO)	Price variation shall be applicable as per below: For computation of price variation, there has to be a base month and update period for which price variation (positive or negative) is to be worked out i. The base month to be considered as mentioned in the IEEMA Circular (i.e. the base month shall be one month prior to the original schedule date of tender opening). ii. Index for the month of supply in case of supply of items/Joint Measurement Certificate (JMC) in case of PCC & RCC to be considered for updating the price. Price variation bills/debit or credit notes are to be submitted by the firm for all items that are subject to variable price for a quarter. iii. IEEMA Circulars are published monthly basis and price variation computation can be done as per provisions mentioned in the respective circulars. iv. The price variation for an item is to be limited to (+ or -) 20% of Taxable Value. v. For the purpose of price variation calculation, the "Date of Delivery" shall be the date on which the equipment/material is notified as being ready for inspection/ dispatch (in the absence of such notification, the date of manufacturer's dispatch note shall be considered as the date of delivery) or the contracted delivery date, whichever is earlier. vi. The Price variation shall be allowed on Ex-works prices only. vii. The component of packing and forwarding, freight and insurance charges shall remain FIRM in all respects throughout the currency of the contract. viii. Bidder shall quote FIRM prices only, for the spare parts, type tests, service charges for erection and commissioning of the equipment. ix. In case the readiness of the equipment/material is beyond delivery schedule, the price variation shall be calculated for contractual delivery date & date of readiness and minimum of the two will be considered. x. No price variation on increasing side will be allowed even if any extension in delivery period is granted. In case the price variation is on decreasing side, the reduced updated prices shall be paid for extended delivery period. In this regard bidders must have to submit Price Variation Declaration form as Attached as Annexure-1.

2	SPECIAL CONDITIONS OF CONTRACT (SCC) Page no. 12 of 18	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 22 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to half percent (0.5%) of the prices of any portion of delayed goods/facilities, for each week or part thereof of delay, for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each week or part thereof which shall elapse between the relevant Time for Completion and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of 5 (Five) percent of the value of delayed goods/facilities	LD Clause – In Tusco Tender , maximum ceiling of LD is 10%. However, SEBs and Power Utilities are now providing maximum LD ceiling is 5%. We request Tusco to kindly accept the LD 0.5% per week with max ceiling limit of 5% on undelivered portion of supply. You may please refer the same in attached Tender Document and PO. (Page No. 319).	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 22 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to half percent (0.5%) of the prices of any portion of delayed goods/facilities, for each week or part thereof of delay, for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each week or part thereof which shall elapse between the relevant Time for Completion and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of 5 (Five) percent of the value of delayed goods/facilities
3	Corrigendum 2 Response to pre bid queries	The Time for Completion shall be as under: 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 12 Months & 4 Nos. of 33kV/220kV, 125MVA, Power Transformer for Pooling Station-2 within 13 Months From issuance of LOA	We would like to request that due to heavy consignment , transformers are to be transported through special hydraulic multi-axel trailers for which availability of number of trailers is very less. Also we have to cater supplies of Transformers PAN India basis , thus it is very difficult to transport three transformers altogether. – We request TUSCO to amend delivery as starting 10 months and @ one transformer per month thereafter . Tender document of UPPTCL is attached for ready reference.	Existing bid provision shall prevail
4	Appendix-1. 13. TERMS AND PROCEDURES OF PAYMENT	An advance not exceeding 10% of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC subject to the following conditions:.....	Interest Free Advance – As per TUSCO tender , advance payment is bearing interest cost , wherever Utilities provide advance , it is interest free advance. We request for providing interest free advance of 10%. – PO copy of NTPC is attached for your ready reference. – (Page No. 765 – Form 5) .	Existing bid provision shall prevail

5	Corrigendum 2 Response to pre bid queries	The Time for Completion shall be as under: 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 12 Months & 4 Nos. of 33kV/220kV, 125MVA, Power Transformer for Pooling Station-2 within 13 Months From issuance of LOA	Delivery shall be 14 months from NOA @ 2 units per month for PSS-1 and PSS-2 combinedly	Existing bid provision shall prevail
6	Appendix 1 Payment terms	An advance not exceeding 10% of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC subject to the following conditions:.....	1. 10% interest free advance against equivalent amount of ABG along with NOA acceptance. 2. Balance 90% with all taxes and duties within 30 days from date of receipt of material at site	Existing bid provision shall prevail
7	GCC 9.3.1 Contract Performance security	The Contractor shall, within twenty-one (21) days of the notification of award, provide a performance security for the due performance of the Contract in the amount equivalent to Five percent (5%) (including GST) of the Contract Price, with a validity upto sixty (60) days beyond the Defect Liability Period. The same shall be extended by the Contractor time to time till sixty (60) days beyond the actual Defect Liability Period, as may be required under the Contract	PBG of 5 % valid for defect liability period 66 Months from date of dispatch or 60 Months from date of commissioning whichever is earlier	Existing bid provision shall prevail
8	SCOPE & INTENT OF SPECIFICATION Clause No.11 Page 456 of 491 Clause no. 11 DYNAMIC SHORT CIRCUIT TEST REQUIREMENT AND VALIDITY	The transformer, the design of which is similar to the offered transformer, should have been successfully tested for short circuit withstand capability as per IS 2026 Part-5 in line with the requirement of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations. The criteria for similar transformer is specified in of CEA guidelines (Annexure: J)	Please note we do not have comparable/similar Short Circuit test report as per CEA Annexure J. We shall submit Dynamic SC test report for higher voltage rating along with calculations during post order stage. Moreover, we have recently conducted Dynamic SC test for 250 MVA 400/33-33 KV Power Transformer for solar application. Request you to kindly accept our proposal.	The relaxation on requirement of Dynamic Short Circuit (DSC) Test on Transformer as per Central Electricity Authority (Technical standards for Construction of Electrical Plants and Electric lines) Regulation, 2022 shall be governed by CEA guidelines and circulars in this regard. Please refer Annexure-2 CEA Circular.

9	Attachment 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.	Offered prices shall be variable as per IEEMA latest circular attached for reference.	Price variation shall be applicable as mentioned in this regard, herein at S. No. 1
10	VOLUME – II TECHNICAL SPECIFICATIONS & SCOPE OF WORK SECTION – II INSTRUCTION TO BIDDERS Clause 13 EMD	Bid Security shall be applicable in this Package. All the Bidders shall submit as part of their bid, a Bid Security of amount INR 1,66,51,251.00/- (Rupees One Crore Sixty Six Lakhs Fifty One thousand Two Hundred Fifty One only). Bid security remain valid for a period of (45) forty-five days beyond the bid validity period.	All the Central utilities are accepting Bid Security declaration. We therefore request you to waive off the EMD requirement.	Existing bid provision shall prevail
11	GCC 22.2 Liquidated Damages	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 22 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to half percent (0.5%) of the prices of any portion of delayed goods, for each week or part thereof of delay, for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each week or part thereof which shall elapse between the relevant Time for Completion and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of 5 (Five) percent of the value of delayed goods/facilities	In line with existing terms with most of central and state utilities we propose to keep LD half percent (0.5%) of the prices of any portion of delayed goods/facilities for each week or part thereof of delay, up to a limit of 5 (Five) percent of the value of delayed goods/facilities	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 22 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to half percent (0.5%) of the prices of any portion of delayed goods/facilities, for each week or part thereof of delay, for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each week or part thereof which shall elapse between the relevant Time for Completion and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of 5 (Five) percent of the value of delayed goods/facilities
12	Technical Datasheet for Power Transformer & 14.4.2.	14.4.2 HV winding a. Type of winding: interleaved	TTDI Considered HV type of winding Shielded Disc	Detailed engineering is in scope of the bidder.

13	Attachment 12/Appendix-2 Page no 199 of 491	Contract Price shall remain firm till the commissioning and completion of the facilities. No price escalation shall be payable by Employer.	Price shall be VARIABLE as per latest IEEMA PVC formula issued vide Circular No. IEEMA/PVC/PWR TRF Up to 400 KV/2021 Effective from 1st September 2021. With base date one prior to tender bidding date as per IEEMA Please confirm.	Price variation shall be applicable as mentioned in this regard, herein at S. No. 1
14	Time schedule, Appendix-4 Page No 201 of 488	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 12 Months & 4 Nos. of 33kV/220kV, 125MVA, Power Transformer for Pooling Station-2 within 13 Months From issuance of LOA	We would like to inform that most of supplier have increased lead time of supply of Major Raw materials (CRGO, Insulation etc.). Considering the receipt of raw materials and factory repairing the transformer, we request you to kindly consider our below delivery in subject tender. To supply one Number of Transformer within 18-months from the date of Purchase Order and balance (1) one number per month thereafter	Existing bid provision shall prevail
15	Section – III: Bid Data SheetsPage- 60 of 488	5 Nos. of 33kV/220kV, 125MVA, Power Transformer for Pooling Station-1 within 12 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 13 Months	As per manufacturing standard practice kindly consider 1st unit within 12 Months & Balance 1 No. unit in 1 Month there after.	Existing bid provision shall prevail
16	Page 192 of 488	1. An advance not exceeding 10% of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC. 2. 80% of the Supply price component of Main Equipment / Materials (including Mandatory Spares) shall be paid progressively on submission of documents indicated here in under: 3. Balance 10% (ten percent) within 15 days of Successful completion of erection, testing and commissioning of the individual Transformer/ on pro-rata basis, along with proof of submission of required number of reproducible	We Suggest Payment term are as under & ETC Charges will Pay sepraty:- 1. 10% intrest free advance of ex-works Value without GST. 2. Balance 90 % with 100% GST after inspection & Dispatch against Invoice & Material Inspection Clearance Certificate (MICC) for despatch issued by the Employer's representative and the Contractor's factory inspection report within 15 Days	Existing bid provision shall prevail

17	Attachment 12 / Appendix – 2Page 197 of 491	Contract Price shall remain firm till the commissioning and completion of the facilities. No price escalation shall be payable by Employer.	As per the market volatility, we request you to consider the IEEMA Price as per the IEEMA Circular which is 1 Month Prior to the Bid submission date & as on date all the Govt bodies as well as private sectors are place the order with the IEEMA Circulars only.	Price variation shall be applicable as mentioned in this regard, herein at S. No. 1
18	SCOPE & INTENT OF SPECIFICATION Clause No.11Page 456 of 491	The transformer, the design of which is similar to the offered transformer, should have been successfully tested for short circuit withstand capability as per IS 2026 Part-5 in line with the requirement of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations. The criteria for similar transformer is specified in of CEA guidelines (Annexure: J)	Kindly accept the Short circuit forces calculations as this test is destructive test & due to requirement of less quantity in both the rating Short circuit charges for 220 kV will be huge impact on Price.	The relaxation on requirement of Dynamic Short Circuit (DSC) Test on Transformer as per Central Electricity Authority (Technical standards for Construction of Electrical Plants and Electric lines) Regulation, 2022 shall be governed by CEA guidelines and circulars in this regard. Please refer Annexure-2 CEA Circular.
19	GEM GTC Page page No. 14 of 39	Exemption shall be as per GeM Terms & Conditions for Turnover More than 500 Cr.	As discussed with GEM Representative, We have to Upload ITR & CA Certified Annual Turn over certificate for EMD Exemption for more than 500 Cr. Turnover in EMD Tab kindly confirm.	Exemption shall be as per GeM Terms & Conditions

Undertaking for the Price Breakup

(Bidder have to submit on letter head duly signed & stamped by authorised signatory)

For Ex work price Calculation, Bidder has to submit an Undertaking for breakup percentage of Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule1 & Schedule 2 as below:

Table -1		
Sr.No.	Price	
1.	Ex-work Price of Transformer as per item No. 1.1.1 in BOQ Schedule1	_____ % of Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule1
2.	Testing of transformer, Delivery of the transformer at site with all tools, equipment & accessories, Providing documents for statutory approval, To prepare submission drawing and to take approval of consultant at each stage.(as per item No. 1.1.1 in BOQ Schedule1)	_____ % of Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule1
The Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule1 should be 100 %. (Total % of Sr. No. 1 & Sr. No 2)		

Table - 2		
Sr.No.	Price	
1.	Ex-work Price of Transformer as per item No. 1.1.1 in BOQ Schedule2	_____ % of Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule2
2.	Testing of transformer, Delivery of the transformer at site with all tools, equipment & accessories, Providing documents for statutory approval, To prepare submission drawing and to take approval of consultant at each stage.(As per item No. 1.1.1 in BOQ Schedule2)	_____ % of Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule2
The Basic Quoted Price i.e. Total Supply Rate (without taxes) as mentioned in item No. 1.1.1 in BOQ Schedule 2 should be 100 %. (Total % of Sr. No. 1 & Sr. No 2)		

- Bidder has to quote the rates for 'Providing commissioning assistance to Electrical Contractor working at site' in item No. 1.1.5 only as mentioned in BOQ of Schedule-1 & Schedule-2.
- Bidder has to submit only a percentage breakup as mentioned in table -1 & table-2 along with the Bid Submission.
- If any bidder has submitted any amount or Price details of the financial bid, then the bidder shall be rejected without assigning any reasons thereof.

I/28579/2023



File No.CEA-PS-14-169/2/2019-PSETD Division

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भारत सरकार/ Government of India
विद्युत मंत्रालय/ Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority
विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग
Power System Engineering & Technology Development Division

दिनांक : 26.06.2023

To,

<As per attached list>

विषय: Relaxation on the requirement of Dynamic Short Circuit (DSC) Test on Transformer as per Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022. - reg.

महोदया/ महोदय,

The transformer manufacturers, utilities and turnkey contractors have been raising concern through various representations over requirement of Dynamic Short Circuit (DSC) test on power transformer and requested for further relaxation on DSC test.

In view of above, a meeting was held under the chairmanship of Chairperson, CEA on 29.05.2023 to further deliberate on the issue and decided to relax the sub regulation 46(1) (d) of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 in following cases:

- i. *The requirement of Dynamic Short Circuit (DSC) withstand test of 765 kV voltage class Auto Transformer & 500 MVA, 400 kV voltage class Auto Transformer shall be applicable for the projects for which bid invitation date is after 31st August 2025.*
- ii. *In case of Power transformer for Solar Park pooling Substation, the requirement of Dynamic Short Circuit (DSC) withstand test for 220 kV and above Voltage class transformer shall be applicable for the projects for which bid invitation date is after 31st August 2025.*
- iii. *The validity of DSC test for transformer shall remain till the design is changed.*

However, during this period the transformer manufacturers shall be ready with their product tested. As CEA has standardized the transformer used in Solar Park, only standardized transformer shall be used.

The above relaxation is in exercise of power by competent authority under regulation 108 of the Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulations, 2022.

भवदीय,

(भंवर सिंह मीना /Bhanwar Singh Meena)

निदेशक/Director