

CORRIGENDUM NO. 2 DATED: 24.03.2025

TO

BIDDING DOCUMENT

GeM Bid No. - GEM/2025/B/5961570

TENDER NO.: TUSCO/LSPP/IPEI/2024-25/08

Subject: Supply of 6 Nos. X 33/220kV Power Transformer with Rated Capacity of 100 MVA for Pooling substations (PSS1 & PSS2) at 600 MW Solar Park Project at Talbehat, Lalitpur (U.P.)

This is to inform all prospective bidders that the following corrigendum with respect to the subject tender has been issued as below:

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)

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Sl.No.	Specification Details	Bid document page No	Bid Provisions	Query/Clarification sought/Suggestion raised by the bidders	TUSCO's Responses /Clarifications
1.	Pre-Qualification	Clause 1.1.1 Annexure-A BDS Pre-Qualification	The bidder must have designed, manufactured, tested, supplied, installed and commissioned 220kV or above class 3phase transformers of at least 50 MVA or at least three (3) nos. 1-phase Transformers each having capacity of at least 16.7 MVA and the same Transformer(s) must have been in satisfactory operation for at least two (2) years on the originally scheduled date of bid opening as per IFB.	As per the current requirements, bidders must demonstrate 2 years of satisfactory operational performance. We humbly suggest that if this criterion is revised to 1 year, it would enable a larger pool of qualified bidders to participate, thereby enhancing competition and leading to more competitive pricing. Such relaxations in eligibility criteria have been adopted in various tenders across the industry while maintaining quality standards. We believe this modification would be beneficial for your esteemed organization in securing optimal pricing and wider participation	Existing bid provision shall prevail
2.		Annexure-A BDS Pre-Qualification	Annexure-J	Please note that we currently do not possess a Type Test Report for the 220KV rating. However, we are able to submit the report upon the supply of Transformers.	Existing bid provision shall prevail

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3.	Delivery Schedule	Section – III: Bid Data Sheets Page-13	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 9 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 9 Months	As per manufacturing standard practice kindly consider 1st unit within 12 Months & Balance 1 No. unit in 1 Month there after.	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 10 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 11 Months From issuance of LOA
4.	Terms of Payments	Page 194 of 491	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 reproducibles	We Suggest Payment terms are as under because Erection, Testing & Commissioning is not in supplier scope:. 1. 10% interest 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	1. 10% advance of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC. 2.. 85% of the Contract Price of Main Equipment / Materials (including Mandatory Spares) (95% in case Intial advance has not been opted) shall be paid progressively on submission of documents indicated in Appendix-1 clause no. 1.1 subclause B.1. 3.Balance 5% (five percent) on Successful completion of erection, testing and commissioning of the individual Transformer/ on pro-rata basis, along with proof of submission of required number of reproducibles.

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5.	Price Basis	Attachment 12 / Appendix – 2 Page 199 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.	Existing bid provision shall prevail, price shall remain firm.
6.	Short Circuit test Requirement	SCOPE & INTENT OF SPECIFICATION Clause No.11 Page 374 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 the requirement of less quantity Short circuit charges for 220 kV will be huge impact on Price.	The criteria for a similar transformer are specified in line with CEA guidelines (Annexure: J)

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7.	GEM/2025/B/5 961570	Page no. 02 of 10	EMD Amount: Rs 1,23,13000/-	As per Cl no. 4, xiii, m(viii), page no 19 of 53 of GeM GTC document (4.Enabling provisions of Rule 149 of General Financial Rules- 2017), EMD BG submission for GeM bidding is exempted for CPSEs. Hence, EMD BG submission is not required. Kindly confirm.	Exemption shall be as per GeM Terms & Conditions
8.	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	The Transformer product consist of mainly Copper, CRGO, Insulating Material, Oil & Steel and the price of Major material like Copper, CRGO, Insulating materials are very volatile in the nature. It is not possible to predict/ estimate the properfirming up for entire delivery period. Hence, we propose to quote Prices of Transformers with PVC as per IEEMAFormulae without any ceiling limit on either side with base date as 1st working day of One month prior to date of tendering. Kindly confirm.	Existing bid provision shall prevail, price shall remain firm.
9.	SPECIAL CONDITIONS OF CONTRACT (SCC)	Page no. 1 of 17 Cl no. 1	The Time for Completion shall be as under: 1. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1: 09 months. 2. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2: 09 months.	The present delivery schedule of all six transformers within 09 month is not feasible for 100 MVA considering raw material/ RIP bushing availability. A minimum of 12 months is needed for manufacturing of 1 no. of 100 MVA Transformer. The delivery will be 01 nos after 12 months from the date of drawing approval and one no/ month thereafter. Kindly confirm.	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 10 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 11 Months From issuance of LOA

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10.	Appendix-1 13. TERMS AND PROCEDURE S OF PAYMENT	A.1	A1. An advance not exceeding 10% of the Contract Value as awarded shall be paid to the Contractor....	We request M/s TUSCO Ltd to kindly amend the above- mentioned provision and provide 10% interest free advance. This will encourage the Contractor to avail the interest free advance without envisaging any risk of interest and improve its cashflows.	Existing bid provision shall prevail
11.	Appendix-1 13. TERMS AND PROCEDURE S OF PAYMENT	C	Balance 10% (ten percent) of the Supply price component of Main Equipment/materials shall be paid as per the following: a) 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 reproducibles, O&M Manuals, approved drawings, data sheets, test report, pamphlets and manuals of mandatory spares, maintenance & testing equipment and issuance of Taking Over Certificate	To link 10% balance payment with ETC is not feasible as Erection, testing and commissioning is not in bidder's scope. Kindly amend this clause or define fixed time line for issuance of final payment.	1. 10% advance of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC. 2.. 85% of the Contract Price of Main Equipment / Materials (including Mandatory Spares) (95% in case Intial advance has not been opted) shall be paid progressively on submission of documents indicated in Appendix-1 clause no. 1.1 subclause B.1. 3.Balance 5% (five percent) on Successful completion of erection, testing and commissioning of the individual Transformer/ on pro-rata basis, along with proof of submission of required number of reproducibles.

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12.	SPECIAL CONDITIONS OF CONTRACT (SCC)	Page no. 11 of 17 Cl no. 35	<p>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 10 (Ten) percent of the value of delayed goods/facilities</p>	Standard LD clause in the industry is 0.5% per week to max 5% of undelivered portion. Please accept the same.	Existing bid provision shall prevail
13.	VOLUME-II	----	---	There is lot of Descripencies between Volume-II of TUSCO/LSPP/IPEI/2024-25/08 and TDS of Power Transformer R1 received from Customer. Hence It is requested to confirm which spec is to be considered in conflicting clauses.	CEA Guidelines as in Volume II of bid documents shall prevail

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14.	VOLUME-II	Scope / Page 2 of 38 Clause 1.2.4	Supply of RTCC	It is contradictory to that mentioned in SI NO. 26.26 of TDS of power transformer. Kindly confirm the the scope.	Remote Tap Control Cubicle (RTCC) (Applicable For OLTC) It is in scope of transformer Supplier.
15.	VOLUME-II	Scope / Page 3 of 38 Clause 4.2	Suitable communication hardware shall be provided to communicate up to distance of 1 km between digital RTCC relays. Cables as required for parallel operation of OLTCs of all transformers (including existing transformers wherever required) from Digital RTCC relays shall be considered included in the scope.	For diiferent make of Digital RTCC It is not feasible the parallel operation. Hence It is requested to share the make and model of Digital RTCC relay of existing transformer so we can review the possibility of parallel operation.	All Transformers in present scope are new one, bidder to select same make for parallel operation.
16.	VOLUME-II	Scope / Page 2 & 3 of 38 Clause 1.2.6 & 4.2	Supply of cables, cabling etc. from transformer body up to Transformer Marshalling box are in transformer scope as per Cl 1.2.6 and Cables and cabling beyond Transformer MB to Purchaser's supplied panels like CRP, SCADA etc are excluded from our scope as per CL 4.2.	It is contradictory to that mentioned in SI NO. 15.25.3.13/ Page 28 of Volume-II in which "Suitable communication hardware shall be provided to communicate up to distance of 1 km between digital RTCC relays. Cables as required for parallel operation of OLTCs of all transformers (including existing transformers wherever required) from Digital RTCC relays" shall be considered included in the scope. The same shall be excluded form our scope in line with CL 4.2.	As per scope of work mentioned in bid documents, No change.

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17.	VOLUME-II	Bushing/ Page 18 of 38 Clause 15.19	Bushing above 52 KV shall be RIP / RIS.	It is contradictory to (OIP) Type of HV bushing mentioned in S1 NO. 15.16.1 of TDS of power transformer. Kindly confirm the type of Bushing.	Bushing above 52 KV shall be RIP/RIS.
18.	VOLUME-II	15.22.1.11 Page 22	Cooling fans and oil pump motors shall be suitable for operation from 415 volts, three phase 50 Hz power supply and shall be of premium efficiency class IE3 conforming to IS: 12615.	However as per SL NO. 15.19.1 Type of Cooling Fan TEFC. Kindly confirm the type of fan and motors. Kindly review the type of Fans. We are offering Cooling fans motors shall be axial flow type conforming to IS:325 as per standard practice.	Type of Cooling Fan TEFC, please follow Specification as mentioned in bid
19.	VOLUME-II	15.23.2 Page 23	All valves up to and including 50mm shall be of gun metal or of cast steel. Larger valves may be of gun metal or may have cast iron bodies with gun metal fittings.	In S1 NO. 15.9.2 (V) of TDS of power transformer the type of valve is Brass. It is contradictory to specified in Volume-II specification. We confirm to comply the specification as it is also similar to CEA guideline and standard practice.	All valves up to and including 50mm shall be of gun metal or of cast steel or of brass. Larger valves may be of gun metal or brass or may have cast iron bodies with gun metal fittings.
20.	Vendor list Requirement	--	Not specified	We have considered Reputed Indian make & BHEL approved vendors for the procurement of items where specific vendors are not specified in spec.	Bidder to submit list of vendors during approval of drawing before manufacturing
21.	Technical datasheet of Power Transformer R1	SL NO 15.16.5 Page 5 of 9	Minimum clearance in air for HV bushing shall be 2700 mm.	The clearance specified in the TDS is significantly higher compared to the values given in IS-2026 Part-3 and IEC 60076 Part-3, making it challenging to maintain. According to IES and IEC standards, the minimum air clearance for 220 kV is 2300 mm (Phase-Phase) and 1700 mm (Phase-Earth) for 950 kVp. Please review the air clearance requirements.	As per IEC-60076-3 (2000- table 7) standards, the minimum air clearance for 220 kV is 2300 mm (Phase-Earth) and 2650 mm (Phase-Phase) for 950 kVp.

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22.	Technical datasheet of Power Transformer R1	SL NO 18.15 Page 6 of 9	Means for operating driving mechanism 18.15.1 Motor driven with spring (stored energy mechanism) Required provided/not provided 18.15.2 Motor driving along in the event of failure of stored energy mechanism Required provided/not provided	The Point is not clear. Kindly elaborate the data required so we can arrange the same from Tap changer supplier.	Means for operating driving mechanism 18.15.1 Motor driven with spring (stored energy mechanism) Required Provided 18.15.2 Motor driving along in the event of failure of stored energy mechanism Required provided
23.	NIFPS	--	Spec and details required.	Kindly provide the technical spec / details of NIFPS and also confirm the scope of NIFPS regarding civil works, MS Tank, oil pit work at site.	MS tank, Piping, FEC etc. all supply by NIFPES/Trafo Vendor. All Civil work by other agency (erection contractor)
24.	Testing Requirement	--	Test to be conducted are mentioned in Annexure-C of bidding document and SL 27 of TDS of Power Transformer R! received.	Kindly confirm which to be followed.	Follow VOL II (as per CEA guideline), Annexure C is elaboration of testing to be done.

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25.	Attachment 12 / Appendix – 2	-	<p>PRICE ADJUSTMENT</p> <p>1. Contract Price shall remain firm till the commissioning and completion of the facilities. No price escalation shall be payable by Employer</p>	The price basis should be variable as per IEEMA Price Variation Formula	Existing bid provision shall prevail, price shall remain firm.
26.	Short Circuit test Requirement	SCOPE & INTENT OF SPECIFICATION Clause No.11 Page 374 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)	If bidder have Short Circuit Report of higher rating Auto Transformer conducted during last 5 years, than the requirement of fresh Short Circuit Test against this specification should waive off. Please consider.	<p>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.</p> <p>As per CEA Guidelines Dynamic Short Circuit test will be valid upto 10 Years.</p>

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27.	Terms of Payments	Page 194 of 491	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 reproducibles	The payment terms shall be 100% after delivery of transformer at site as only supervision is in scope of bidder.	1. 10% advance of the Contract Value as awarded shall be paid to the Contractor at the rate of interest mentioned in SCC. 2.. 85% of the Contract Price of Main Equipment / Materials (including Mandatory Spares) (95% in case Intial advance has not been opted) shall be paid progressively on submission of documents indicated in Appendix-1 clause no. 1.1 subclause B.1. 3.Balance 5% (five percent) on Successful completion of erection, testing and commissioning of the individual Transformer/ on pro-rata basis, along with proof of submission of required number of reproducibles.
28.	SPECIAL CONDITIONS OF CONTRACT (SCC)	Page no. 1 of 17 Cl no. 1	The Time for Completion shall be as under: 1. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1: 09 months. 2. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2: 09 months.	The delivery Schedule of transformers shall be "Commencement within 10 months from issue of Purchase order and completion @1 no. per month thereafter"	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 10 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 11 Months From issuance of LOA
29.				Any civil work not in bidder's scope.	Bidder Understanding is correct, However Bid provision shall prevail.

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30.	Appendix-1 13. TERMS AND PROCEDURE S OF PAYMENT	A.1	A1. An advance not exceeding 10% of the Contract Value as awarded shall be paid to the Contractor....	We request M/s TUSCO Ltd to kindly amend the above- mentioned provision and provide 10% interest free advance. This will encourage the Contractor to avail the interest free advance without envisaging any risk of interest and improve its cashflows.	Existing bid provision shall prevail
31.	SPECIAL CONDITIONS OF CONTRACT (SCC)	Page no. 1 of 17 Cl no. 1	The Time for Completion shall be as under: 1. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1: 09 months. 2. 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2: 09 months.	We would like to inform that most of supplier have increased lead time of supply of Major Raw materials (CRGO, Insulation etc.). Considering 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 one per month thereafter.	3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 10 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 11 Months From issuance of LOA
32.	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 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	Existing bid provision shall prevail, price shall remain firm.
33.	Price Schedule		Supply installation Price Schedule -PSS1 assistance, Testing and commissioning of oil cooled (ONAN) Outdoor type, transformer with ON load tap changer as per specification, technical data sheet.	Please confirm the scope of the bidder is Supervision of Installation & Commissioning or Complete Installation & Commissioning as the same in Contradiction in PSS 1 Price Schedule	Scope of the bidder is Supervision/Assistance of Installation, erection, testing & Commissioning of transformer as per bidprovision.
		GENERAL	PSS-1 & PSS-2	Please confirm the technical specification for PSS1 & PSS2 is same	Same for Both PSS1 & PSS2

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34.		GENERAL	PURCHASE ORDER	Please clarify the Post Order activities will be through GeM Portal or directly through TUSCO Limited as GeM Portal has additional Charges for Order execution.	Post order activities will be undertaken through TUSCO Limited. However, any fees/payment to Gem is attributed to the bidders.

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35.		1.2.3 & 2/39	Erection of the supplied transformer at site with all accessories.	Said Clause to be discussed between the Customer & M/s. Bidder.	Scope of the bidder is Supervision/Assistance of Installation, erection, testing & Commissioning of transformer as per bid provision.
36.		1.2.12 & 2/39	Special tools & tackles if any required for erection & maintenance of the Power Transformer.	No special tools & tackles required	Special tools & tackles if Required will be in bidder's scope
37.		1.2.13 & 2/39	Oil filling and oil filtration at site.	Said Clause to be discussed between the Customer & M/s. Bidder.	Scope of the bidder is Supervision/Assistance of Installation, erection, testing & Commissioning of transformer as per bid provision.
38.		1.2.14 & 2/39	Supply of all the testing equipment and commissioning of transformer at site.	Said Clause to be discussed between the Customer & M/s. Bidder.	Scope of the bidder is Supervision/Assistance of Installation, erection, testing & Commissioning of transformer as per bid provision.
39.		10.2.1, 10.2.3 & 6/39	Measured losses must be within 2% tolerance of the guaranteed losses. Further, for losses beyond 2% the equipment may be rejected in line with CEA guidelines. Also, no benefit shall be provided for lower losses.	We request you not to reject transformer if losses increased by 2%. Losses exceed upto 10% should be penalized as per penalty rates.	Already penalty provision along with tolerance is mentioned in Bid. Bid provision shall prevail

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40.	TUSCO/CSP P/TRF/2024-25/10; VOLUME-II	12.1 & 8/39	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) for Solar Power Transformer.	We do not have similar design to prove Short circuit similarity as per Annexure-J of CEA guidelines for Solar Power Transformer. In view of this, we request you to accept Short circuit calculations as per IEC 60076-5 to prove short circuit withstandability.	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. As per CEA Guidelines Dynamic Short Circuit test will be valid upto 10 Years.

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41.		12.2 & 8/39	<p>The relevant Test Report / certificate shall be enclosed along with bid. Further, design review of offered transformer shall be carried out based on the design of reference transformer, which has already been subjected to Short circuit tests in lieu of repetition of Short circuit tests. In case, manufacturer has not conducted short circuit test earlier, the same shall be carried out on offered transformer. A format (forms part) filled with data of a typical sample case has been prepared for reference and guidance to compare a Short Circuit tested transformer with the offered transformer in order to verify the similarity criteria as per of CEA guidelines for Solar Power Transformer.</p>	<p>We do not have similar design to prove Short circuit similarity as per Annexure-J of CEA guidelines for Solar Power Transformer. In view of this, we request you to accept Short circuit calculations as per IEC 60076-5 to prove short circuit withstandability.</p>	<p>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.</p> <p>As per CEA Guidelines Dynamic Short Circuit test will be valid upto 10 Years.</p>

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42.		16.19.1 & 19/39	52 kV, 145 kV, 245kV and 420kV bushings shall be RIP/RIS	We will offer 245kV bushings type as OIP as per datasheet. Kindly confirm	Bushing above 52 KV shall be RIP/RIS.
43.		17.1 & 34/39	Each transformer shall be supplied with a full kit of special tools and tackles required for unloading and erection of transformer at site.	No special tools & tackles required	if Required then it is in scope of bidder
44.	TUSCO/CSPP/TRF/2024-25/10; VOLUME-II Annexure-C: TEST PLAN AND PROCEDURES	13 & 6/7	Dynamic short circuit withstand test: The test shall be carried out as per IEC 60076-5. Dynamic short circuit test shall be carried out in HV-LV combination at nominal & extreme tap positions. For LV winding, dynamic short circuit shall be carried out on HV. Type tests shall be carried out before short circuit test. Following shall also be conducted before and after Short Circuit test: i) Dissolved gas analysis ii) Frequency response analysis iii) All routine tests Detail test procedure shall be submitted by contractor & shall be approved before short circuit test.	We do not envisage to carry out the dynamic short circuit test physically on the said transformer. In lieu of the same, we will prove the capability of the transformer to withstand the short circuit by way of calculation.	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. As per CEA Guidelines Dynamic Short Circuit test will be valid upto 10 Years.
45.	Signing of contract agreement	34.3; 43 of 491	Delay in signing of contract agreement	Request the Customer to remove the said penalty condition.	Existing bid provision shall prevail

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46.	Supplementing Sub-Clause GCC 4.1 & 4.2	1; 139 of 491	Duration in Months from the date of Notification of Award: 9 Months	<p>FOR Site basis Delivery (in case of non-applicability of dynamic short circuit test): To be commenced within 11 months from the date of receipt of firm Purchase Order from the Customer; & to be completed @ 2 Nos. Transformers per month thereafter.</p> <p>In case of applicability of dynamic short circuit test, an extension of six months will be required in the commencement of FOR Site basis Delivery.</p> <p>Timeline for Erection; Site Testing; & Commissioning: To be discussed & mutually agreed upon between the Customer & M/s. Bidder in the event of the placement of the Order.</p>	<p>3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-1 within 10 Months & 3 Nos. of 33kV/220kV, 100MVA, Power Transformer for Pooling Station-2 within 11 Months From issuance of LOA.</p> <p>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.</p> <p>As per CEA Guidelines Dynamic Short Circuit test will be valid upto 10 Years. There will be no timeline extension on basis of type test reports.</p>

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47.	Replace the first para of GCC Sub-Clause 23.2 with the following	36; 150 of 491	Defect Liability Period	* We request the Customer to link the Defect Liability Period with the FOR Site basis Supply of the Transformer instead of linking it from the date of taking over / completion of facilities. * Clause (ii) will not be applicable.	Existing bid provision shall prevail
48.	Supplementing Sub-Clause GCC 23.8	38; 150 of 491	Defect Liability Period	"Whichever is later" to be replaced with "Whichever is earlier".	Existing bid provision shall prevail
49.	Attachment 12 / Appendix-2	1; 199 of 491	Price Adjustment	We request the Customer to change the price basis as Variable subject to IEEMA's latest PV (Price Variation) Clause / Formula for Power Transformers w.e.f. 1st Sept. 2021 without any ceiling on either side.	Existing bid provision shall prevail, price shall remain firm.

	Specification Details	Bid document page No	Bid Provisions	Query/Clarification sought/Suggestion raised by the bidders	TUSCO's Responses /Clarifications
50.				<p>Erection; Site Testing; & Commissioning of Transformer shall be included in the Scope of Work considering that Customer will provide Power Supply, Site Office, Toilet, Ambulance, First Aid Centre, Worker Sitting Area & Developed Store with proper lighting.</p> <p>Other Conditions:</p> <ol style="list-style-type: none"> 1. Any kind of civil work will be excluded from M/s. Bidder's Scope of Work. 2. Any type of equipment earthing work are not included. 3. Cabling & termination work from the transformer to any Customer protection panel / SCADA panel etc. are not included in the scope of work. 4. Customer will provide adequate storage area to M/s. Bidder at free of cost.Storage area must be levelled by the Customer. 5. Customer must provide adequate levelled area for office cabin, first aid centre, ambulance & toilet cabin. 	

	Specification Details	Bid document page No	Bid Provisions	Query/Clarification sought/Suggestion raised by the bidders	TUSCO's Responses /Clarifications
	--	--	<p>Comments / Clarifications in regard to Scope for -> * Erection; Testing; & Commissioning * Cable</p>	<p>6. Transformer must be supplied in oil filled condition. 7. Proper access road from the Site to Store Area will be in the Customer's scope. 8. Safe & clear front area of transformer installation will be provided by the Customer for placing the machinery & crane movement for erection. 9. Gate pass must be arranged by the Customer. 10. To place the transformer on the foundation, if it was essential to remove & reinstall the transformer fencing, a task is excluded from M/s. Bidder's scope. 11. Scope of supply for Power / Control / any Special cable / FO cable shall be limited from Transformer tank mounted accessories to Individual Marshalling Box (IMB). 12. Power / Control / Any Special Cable required for Interconnection from IMB to RTCC panel / control room / SCADA Panel etc. shall not be under M/s. Bidder's scope. Nospecial cable & accessories (i.e.</p>	<p>Scope of the bidder is Supervision/Assistance of Installation, erection, testing & Commissioning of transformer as per bidprovision.</p> <p>However, bidder shall have to be acquainted with site conditions and Existing bid provision shall prevail</p>

	Specification Details	Bid document page No	Bid Provisions	Query/Clarification sought/Suggestion raised by the bidders	TUSCO's Responses /Clarifications
				<p>LIU, Ethernet switch, FO cable etc.) will be included in M/s. Bidder's scope for automation. Any material required to supply / perform for integration with existing transformers or substation automation system for is not included in M/s. Bidder scope.</p> <p>13. Supply & Integration of any existing spare units, if any, with new supplied Transformer IMB is not considered in M/s. Bidder's scope.</p>	