

Tender No : TPCODL/P&S/1000000164/2021-22 Dtd: 13.01.2022  
Package Name : Supply of 2.5MVA and 3.15MVA Power Transformer

Prebid Query				
Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
1	1. SCOPE:	Unloading at site/store	We request you to kindly accept scope of unloading in TPCODL Scope.	Shall be as per tender clause only. Refer Tender Unloading Clause.
2	7.3 Delivery Timelines:	Delivery within 90 Days from the placement of Purchase Order (PO)/ Release Order (RO).	Delivery can be discussed mutually at a time of placement of RO. Delivery period is depending upon the type test & special test involved.	Bidder has to fill the deviation for delivery period during submission of techno-commercial bid.
3	1.7 Qualification Criteria	b) Bidder must be a BEE Certified OEM of Power Transformer of same or, Higher Ratings with manufacturing facility / assembly in India. TPCODL reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter.	Please note BEE Certificate is not applicable for Power Transformers.	BEE energy efficiency rating applies to DTR upto 2.5 MVA only. 2.5 MVA (33/0.433)- Applicable (BIS is also considered) 3.15 MVA (33/11)KV- Not Applicable
4	2.1 Price Variation Clause	The prices shall remain firm during the entire contract period.	As raw material prices are increasing day by day as per the current trend, there is steep increase in copper prices and other materials also. Hence we request you to kindly offer <b>IEEMA price variation without ceiling</b> on the price decided in RA	Price Variation clause shall remain same as per Tender Clause only. No price variation allowed as PO shall be issued.
5	7.1. Special Conditions of Contract	PBG applicable shall be 5% of Order Value. PBG submitted, shall be released after completion of applicable guarantee period plus one month.	We request you to accept CPBG OF 3% as per circular issued by Government of India- Ministry of Finance dated 12th Nov 2020.	PBG shall be applicable 5% as per Tender Clause only. No deviation allowed.
6	17. SPARES, ACCESSORIES AND TOOLS	SPARES, ACCESSORIES AND TOOLS	List of Mandatory spares is not given .We presume that mandatory spares not required. Kindly confirm	Shall be as per tender clause.

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
7	Pg. No. 35 of 47: Technical Specifications of 2500 KVA , 33/0.433 KV , Distribution transformer	"THE EQUIPMENT GUARANTEED UPTO A PERIOD OF 48 MONTHS FROM THE DATE OF COMMISSIONING OR 60 MONTHS FROM THE DATE OF LAST SUPPLY" whichever earlier. In case any manufacturing defects are found, the vendor shall replace the product free of cost.	Both the clause are contradictory. Kindly confirm exact warranty period	THE EQUIPMENT GUARANTEED UPTO A PERIOD OF 48 MONTHS FROM THE DATE OF COMMISSIONING OR, 60 MONTHS FROM THE DATE OF LAST SUPPLY, whichever earlier. In case any manufacturing defects are found, the vendor shall replace the product free of cost.
8	7.1. Special Conditions of Contract	Warranty period: 24 months from date of supply or, 18 months from date of commissioning, whichever is earlier. All other terms and conditions of TPCODL General Conditions of Contract shall be applicable.	Both the clause are contradictory. Kindly confirm exact warranty period	
9	2. Safety Organization & Responsibilities	2.1 Contractor Site Management and Supervision	Please confirm wether supervision of commissioning is required or, not. If required, kindly confirm the no of days required in on visit for supervision.	Consider supervision during commissioning as 2-3 Mandays/ transformer
10	1.7.C Qualification Criteria	The bidder should have valid BEE certification with successful Type Test Report (TTR) conducted from CPRI / ERDA/ International Accredited Laboratory and shall furnish the same as a part of the Technical Bid.	We are BIS certified for the rating up to 2.5MVA which is equivalent to BEE certification. Reports for the same shall be submitted for the same. If BEE certification is required on your JOB then short circuit test need to be conducted which will have a price implication as short circuit test is a vulnerable test which involves very high cost and it has to be conducted at CPRI / ERDA . Also it involves additional delivery period . Hence we do not recommend to conduct the same. We request you to kindly consider our request of BIS certification which is equivalent to BEE certification.	BIS Certificate shall be considered against rating 2.5 MVA. All The relevant type test reports shall be from CPRI/ERDA and shall be within 5 years.
11	7.3 TYPE TESTS & 8. TYPE TEST CERTIFICATES:	1. Lightning Impulse Test [As per IS 2026 (Part 3) Clause no. 12]. 2. Temperature Rise Test [As per IS 2026 (Part 2) Clause no.4]. NOTE: Maximum measured total loss (No load at Rated excitation load loss at maximum current tap converted to 75°C reference temperature) at 100 percent loading shall be supplied during temperature rise test. 3. Short Circuit Withstand test [As per IS 2026 (Part 5)].....	We shall submit theType test reports /short circuit test reports of similar or higher rating. Hence we shall not conduct the same on offered transformer. For 2.5 MVA transformer, we shall submit BIS Certificate. As already mentioned. Kindly confirm the same.	All The type test reports shall be from CPRI/ERDA and shall be within 5 years. Type test reports of Higher MVA Rating of similar ratio transformer and exactly similar design will be acceptable.
12	Page No. 79 of 98 : List of Calculations to be submitted:	All the calculations shall be step by step showing the use of formulas and other practical considerations. 10. Short Circuit withstand.		This shall be as per tender Clause.

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
13	1. SCOPE:	The maximum flux density in any part of the cores and yoke at normal voltage and frequency shall not be more than 1.5 Tesla	Please note Max. flux density will be 1.7 T	This shall be as per tender Clause.
14	Cl. No. 4. (26): Pg No. 06 of 12	Permissible Temperature Rise over ambient temperature of 50 deg C	Temp rise will be 50/55 deg C (oil/ Winding)	For 3.15 MVA- Temp rise will be 50/55 deg C (oil/ Winding) For 2.5 MVA- Temp rise will be 40/45 deg C (oil/ Winding)
15	Cl. No. 4. (31) Pg No. 06 of 12	Maximum current density for HV and LV winding for rated current: 2.4 A / mm <sup>2</sup>	Current density - 3-3.5 A/mm <sup>2</sup>	This shall be as per tender Clause.
16	Cl. No. 28 Pg No. 06 of 12	a) HV winding line end b) LV winding	Please confirm HV/LV termination- Bare bushing or cable box	This shall be as per tender spec. 2.5 MVA- Cable Box Required 3.15 MVA- Cable box not required.
17	Cl. No. 19. (42)	Remote Control Panel required Automatic control required	Not Applicable for OCTC	This shall be as per tender spec. 2.5 MVA- Required 3.15 MVA- Not Required
18	Cl No. 16	Temperature Rise test (Over ambient temperature): top oil – 35 top oil – 40	OIL- 40 C AND WINDING - 45 C	For 3.15 MVA- Temp rise will be 50/55 deg C (oil/ Winding) For 2.5 MVA- Temp rise will be 40/45 deg C (oil/ Winding)
19	Cl. No. 5.6	RADIATORS	Radiators will be dettachable type	2.5 MVA-Non detachable type 3.15 MVA- detachable tye.
20	Cl. No. 5.25	ON-LOAD TAP-CHANGERS: The transformers shall be provided with On-load Tap Changer	On Load Tap Changer is not applicable	2.5 MVA -OLTC is required 3.15 MVA- OLTC not required

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
21	Price Bid PT : Tender TPCODL/P&S/1000000120/2021-22	ANNEXURE I Schedule of Items	We presume that price bid PT which refer to the tender no. TPCODL/P&S/1000000120/2021-22 is not applicable/wrong document. Kindly confirm the same.	The same is already Updated in ARIBA. Please check again. Refer updated ANNEXURE-I.
22	Pg. No. 44 of 47	Additional Documents to be submitted : a. List of raw materials as well as bought out accessories and name of sub-suppliers selected from those furnished along with offer.	List of raw material shall be submitted during detail engineering.	Noted.
23	The EMD in the form of Bank Draft / BG		Regarding submission of EMD in the form of BG, we would like to inform you that we are regular registered vendor of TATA POWER, We propose to submit Permanent BG towards EMD of all the present and future tenders as we understand that there would be more requirements in futures.	Will intimate once implemented (Permanent BG Proposal) in TPCODL. For this tender, EMD has to be submitted as per tender clause only.
24	ENG-HV -100 / Clause.No: 4.1,5,8,5.15 &5.25 / Page.No: 5,19,23 & 28, (2.5 MVA Rating)	As per Clause no.4.1(14 )Tap changing arrangement (off load)-->+5.0% to -10% in steps of 2.5% As per Clause no.5.8,Suitable OSR shall be provided in between conservator Tank and OLTC Tank. As per Clause no.5.15,The capacity of the conservator tank shall be designed keeping in view of transformer tank & OLTC. Necessary partition arrangement shall be done as per standard practices for keeping separate oil for OLTC & main tank. As per Clause no.5.25,ON-LOAD TAP-CHANGERS,The Transformer shall be with taps ranging from +5% to -15% in equal steps of 1.25% each.	We wish to bring to your kind notice that, these clauses are contradicting to each other.Kindly Confirm tap changer requirement i.e. off load or on load tap changer and tapping Range.	Clause no.4.1(14 )may please be read as Tap changing arrangement (OLTC)-->+5.0% to -15% in steps of 1.25% 2.5 MVA 33/0.433 shall have OLTC.
25	ENG-HV -100 / Clause.No: 5.3(1)/ Page.No: 9, (2.5 MVA Rating)	As per clause no.5.3(1),Primary and secondary windings shall be constructed from high- conductivity (copper conductors), Double Paper Covered (DPC) copper conductor with min. 30% overlap per layer of paper & TPC with 25% overlap per layer.	Kindly allow the use of foil conductor for LV windings. Transformers with foil winding has low axial forces during short circuit resulting into better short circuit withstand capability when compared to strip windings	This shall be as per tender specs.
26	ENG-HV -100 / Clause.No: 5.5(17) / Page.No: 15, (2.5 MVA Rating)	As per Clause no.5.5(17), The maximum overall size of DTs(including tolerance) shall be min. 2500 mm x 2300 mm	We will provide the overall dimensions as per our design. Kindly confirm.	Noted.

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
27	ENG-HV -100 / Clause.No: 5.6(4) / Page.No: 18, <b>(2.5 MVA Rating)</b>	As per Clsue no.5.6(4) ,The mounting of the radiators shall be non-detachable (i.e., they should be welded permanently with the tank).	We wish to bring to your kind notice that, for medium distribution transformers welded type radiators are not suggestible. Kindly amend this clasue as detachable radiators shall be provided instead of welded type.	This shall be as per tender specs.
28	ENG-HV -100 / Clause.No: 5.9 / Page.No: 19, <b>(2.5 MVA Rating)</b>	As per clause no.5.9,Only one sheet metal pocket shall be provided for mounting of HV bushing and the same shall not be fixed on pipes. Sheet metal pocket shall be designed in such a way that all HV Bushings shall remain parallel and at equidistance throughout	We will provide the bushings on top cover either sheet metal pockets or directly mounting on top cover without sheet metal pockets by maintaing required external air clearances as per technical specifications.kindly confirm.	This shall be as per tender clause. <b>Both HV &amp; LV side is to be provided with cable box</b>
29	ENG-HV -100 / Clause.No: 5.16 / Page.No: 24, <b>(2.5 MVA Rating)</b>	As per clause no.5.16,EXPLOSION VENT/PRESSURE RELEASE VALVE AND AIR RELEASE PLUG	We wish to bring to your kind notice that, in Place of Explosion vent we will provide the Pressure relief valve. Since Explosion vent is a diaphragm at the end of a large dia vent pipe that is expected to rupture and release the pressure from inside the transformer tank. Thus, it is not reusable. PRD is a spring loaded valve that lifts up at the calibrated pressure and sits back once the pressure is released and its(PRD) Maintenance free operation. Kindly Review confirm.	Noted.
30	ENG-HV -100 / Clause.No: 5.19(6) / Page.No: 25 <b>(2.5 MVA Rating)</b>	As per clause no.5.19(6) WTI shall be provided in one winding of each phase	We request you to confirm, whether the WTI is required for Each phase (i.e., R,Y,B) or One WTI per Transformer.	One WTI per Transfomer for LV Winding.
31	ENG-HV -100 / Clause.No: 7.3& 8 / Page.No: 38 <b>(2.5 MVA Rating)</b>	As per Clause no.7.3 & 8, TYPE TESTS &TYPE TEST CERTIFICATES	We request you to kindly allow us for submission of Type tests of similar or higher rating at the time of Bidding, we will submit the Type test reports as per the Technical Specification before commencement of supplies at our cost. Kindly review and Confirm	All The type test reports shall be from CPRI/ERDA and shall be within 5 years. Type test reports of Higher MVA Rating of similar ratio transformer and exactly similar design will be acceptable.
32	As per Clause no.1.7 Qualification Criteria/ Page No.7 of 185 <b>(2.5 MVA Rating &amp; 3.15MVA Rating)</b>	b) Bidder must be a BEE Certified OEM of Power Transformer of same or, Higher Ratings with manufacturing facility / assembly in India. TPCODL reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter.	We bring to your kind notice that BEE is not Applicable for Power Transformers. Hence, We request you to review and confirm this clause.	2.5 MVA (33/0.433)- Applicable(BIS is also considered) 3.15 MVA (33/11)KV- Not Applicable

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	2	3	4	5
33	ENG-HV -100 / Clause.No: 1,4(21),5.2(b) / Page.No: 2,5 & 9, (3.15MVA Rating)	As per clause no:1: Scope The maximum flux density in any part of the cores and yoke at normal voltage and frequency shall not be more than 1.5 Tesla As per clause no:4(21) Maximum Flux Density in any part of the core and yoke at rated MVA, rated voltage i.e 33 KV / 11 KV and system frequency of 50 HZ:1.5Tesla As per Clause no.5.2(b) The maximum flux density in any part of the cores and yoke at normal voltage and frequency shall not be more than 1.5 Tesla	We wish to bring to your kind notice that, as per CBIP, The maximum flux density in any part of the core and yokes, of each transformer at normal voltage and frequency shall be such that the transformer shall be suitable for continuous operation with a frequency Variation of + 3% from normal 50 Hz and combined voltage and frequency variation should not exceed the rated V/f ratio by 10%.shall not exceed 1.9 Tesla. W. Along with this all the Boards like M/s. TPNODL (TPNODL / OT / 2021-22 / 057 Dtd.23.08.2021) specification is attached here with and M/s. TPSODL (TPSODL/OT/2021-22/087) are procuring with The maximum flux density in any part of the core and yokes, of each transformer at normal voltage and frequency shall be such that the transformer shall be suitable for continuous operation with a frequency Variation of + 3% from normal 50 Hz and combined voltage and frequency variation should not exceed the rated V/f ratio by 10%.shall not exceed 1.9 Tesla .We request you to kindly amend this clause as per CBIP.	This shall be as per tender specifications
34	ENG-HV -100 / Clause.No: 4.1(26) / Page.No: 6 (3.15MVA Rating)	As per clause no:4.1(26):: SPECIFIC TECHNICAL REQUIREMENTS 26 (a) Of top oil measured by thermometer 40°C 26(b) Of winding measured by resistance 45 °C 19. SCHEDULE- "A" GUARANTEED TECHNICAL PARTICULARS: 26 (a) Temperature rise of winding given as: 35 Deg. C 26 (a) Temperature rise of Oil given as : 40 Deg.C	We wish to bring to your kind notice that, These clauses are contradicting each other.Along with this all the Boards like M/s. TPNODL (TPNODL / OT / 2021-22 / 057 Dtd.23.08.2021) amended specificaitons is attached here with and they are procuring below temperature rises Top oil measured by thermometer 45°C Winding measured by resistance 55 °C We request you to kindly amend the temperature rises inline with above technical specifications.	For 3.15 MVA- Temp rise will be 50/55 deg C (oil/Winding) For 2.5 MVA- Temp rise will be 40/45 deg C (oil/Winding)
35	ENG-HV -100 / Clause.No: 4.1(35) / Page.No: 4 & 40 (3.15MVA Rating)	As per clause no:4.1(35):: TECHNICAL REQUIREMENTS 35(a) a)No load loss(fixed losses) KW:3KW 35(b)b) Load losses at 75°C KW:17KW	We wish to bring to your kind notice that, other Boards like M/s. TPNODL (TPNODL / OT / 2021-22 / 057 Dtd.23.08.2021) specification is attached here with and M/s. TPSODL (TPSODL/OT/2021-22/087) is procuring with this losses only. So kindly amend this losses as per below.  No Load Losses :3.0 kW Max. Load Losses :16 kW Max.	Noted

36	ENG-HV -100 / Clause.No:5.3(vi) / Page.No: 11 (3.15MVA Rating)	As per Clause No:5.3(vi) Tapping shall not be brought out from inside the coil or from intermediate turns and shall be so arranged as to preserve as far as possible magnetic balance of transformer at all voltage ratios.	Kindly amend this clause as per below "Tapping's can be taken from anywhere in coil but it shall be arranged in a way to get possible magnetic balance of transformer at all voltage ratios."	This shall be as per tender Clause.
<b>Sr. No.</b>	<b>Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No</b>	<b>Description as per Bid Document</b>	<b>Remarks - Query / Clarification</b>	<b>TPCODL RESPONSE</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
37	ENG-HV -100 / Clause.No:5.4(f) / Page.No: 11 (3.15MVA Rating)	As per Clause No:5.4(f) Gaskets of nitrile rubber or equivalent shall be used to ensure perfect oil tightness. All gaskets shall be closed design (without open ends) and shall be of one piece only	Kindly provide the option for gaskets with rubber bonded cork or Neoprene rubber bonded cork or equivalent shall be used which shall give satisfactory service under the operating condition	This shall be as per tender Clause.
38	ENG-HV -100 / Clause.No: 7.7(2) / Page.No: 23 (3.15MVA Rating)	As per Clause No:7.7(2) Inter layer insulation both for HV and LV windings shall be Epoxy diamond dotted Kraft paper and compressed pressboard of reputed make (subject to approval of TPNODL).	We wish to bring your kind notice that, these will be applicable for Smaller ratings of Layer type winding construction. For higher ratings of voltage class 33/11kV these are Not applicable.  So we request you to kindly review and remove this point.	Invalid query. No where it is mentioned to use Epoxy diamond dotted Kraft paper and compressed pressboard for 3.15 MVA (33/11 KV PTR. This is applicable to 2.5 MVA 33/0.433 DTR.
39	ENG-HV -100 / Clause.No: 5.11(d),5.13& 5.22(i),(xxv) / Page.No: 15 & 18, (3.15MVA Rating)	As per Clause No:5.11(d) CONSERVATOR d)Plain conservator fitted with silica gel breather. As per Clause No:5.22(i) Conservator with isolating valves, oil filling hole with cap and drain valve. The conservator vessel shall be filled with constant oil pressure diaphragm oil sealing system. (xxv)Oil preservation Equipment.	We wish to bring to your kind notice that, these two clauses are contradicting to each other. We will proceed as per Clause No:5.11(d) i.e Plain conservator fitted with silica gel breather. Kindly confirm?	Conservator with isolating valves, oil filling hole with cap and drain valve. The conservator vessel shall be filled with constant oil pressure diaphragm oil sealing system.
40	ENG-HV -100 / Clause.No: 7.2 &8/ Page.No:21&25, (3.15MVA Rating)	As per clause no: 7.2 TYPE TESTS As per clause no: 8.0TYPE TEST CERTIFICATES	We request you to kindly allow us for submission of Type tests of similar or higher rating at the time of Bidding, we will submit the Type test reports as per the Technical Specification before commencement of supplies at our cost. Kindly review and Confirm	All The type test reports shall be from CPRI/ERDA and shall be within 5 years. Type test reports of Higher MVA Rating of similar ratio transformer and exactly similar design will be acceptable.
41	Clause no.8.0 Security Cum Performance Deposit / GENERAL CONDITIONS OF CONTRACT FOR SUPPLY ORDERS / Page No.31 of 85	Associates shall submit within 15 days from the effective date of issue of PO/RC, Security Performance Bank Guarantee (SPBG) in the format as per Annexure B of this document from banks acceptable to TPCODL for:  (a) 5% of the PO value if purchase order value is more than Rs 5 Crores. (b) 10% of the PO value if purchase order value is less than Rs 5 Crores.	We request you to amend the clause as per the below:  Associates shall submit within 15 days from the effective date of issue of PO/RC, Security cum Performance Bank Guarantee (SPBG) in the format as per Annexure B of this document from banks acceptable to TPSODL for:  (a) 1% of the PO value if purchase order value is more than Rs 5 Crores.  (b) 3% of the PO value if purchase order value is less than Rs 5 Crores. This shall remain valid till the end of the Guarantee Period of contract, plus one month	This tender is floated from TPCODL, PBG Term shall be as per tender clause only

By Order  
Chief-Procurement & Stores