

Tender No:- TPSODL/OT/2024-25/058				
Package Name:- Rate Contract for Supply of Power Transformer for TPSODL				
Reply to Techno Commercial Pre Bid Query				
Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	Clause.No:4.1(40(b))	<b>Clause.No:4.40.b</b> b) Tap range of OLTC as + 4.686% to -20.28 % in steps of 1.56% d) Principal tap position - 5th	b) The given tap range & steps are not matching, may be typographical error the OLTC range shall be 4.68% to -20.28 % in steps of 1.56% (as per earlier executed orders) d) the principal tap position will be on 4th instead of 5th position	b) Tapping range should be +4.68 to -20.28 in steps of 1.56% d) Noted
2	Clause.No:4.4(VII)&5.15(XI)((XIII))	<b>Clause.No:4.4(VII)</b> Transformer shall be compatible for Operation along with Tap Changer Control panel or Transformer Monitoring Unit (TMU). Supply of TMU is not in scope of Bidder. <b>Clause.No:5.15(XI)</b> <b>Automatic / Parallel Operation with OLTC</b> OLTC shall be able to do automatic / parallel operations through Transformer Monitoring Unit(TMU). <b>Clause.No:5.15(XIII)</b> Tap Changer Control panel or Transformer Monitoring Unit (TMU):This equipment is not required to be supplied by the bidder of the transformer.	Against this we are providing the OLTC with RTCC and AVR suitable to SCADA compatible.TMU is not in SSE scope of Supply. Kindly confirm?	RTCC and TMU are not in scope of bidder but shall be compatible with TMU and SCADA
3	Clause.No: 5.2(xiii)	<b>As per Clause No:5.2(xiii).</b> a) The grounding lead from the core shall be brought out of the tank through a 11 kV class bushing and grounded externally.	We wish to bring to your kind notice that, the grounding shall be with 1.1 KV class bushing. Kindly confirm?	Specification to be complied.
4	Clause.No:5.26	<b>5.26 MAKE OF MAJOR COMPONENTS &amp; RAW MATERIALS</b> a) Copper: M/S Sterlite, M/S Hindustan Copper, M/S Hindalco, M/s NALCO etc, Thyssenkrup etc. b) Core: M/S AK Steels, POSCO, Kawasaki/ JFE, Nippon Steel. c) Insulation paper and Pressboards: ITC paper, ABB, Raman Boards- Mysore, Senapathy Whiteley – Bangalore d) Transformer Oil (Mineral oil): Savita, Apar, Gandhar, Columbia, IOCL e) Gaskets & Corks: Nu Cork, Anchor Corks f) Steel for Tank: M/s, TATA Steel, M/s SAIL, M/s. JSW Steel, M/s. IISCO, M/s. RINL/Vizag Steel, M/s. Jindal Steel, g) Dehydrating Breather: Yogya, Anushree, Electrical engineers h) Bucholz, PRD, OTI , WTI, and other devices Reputed make to be approved by TATA POWER DISCOM during detailed engineering	We wish to bring to your kind notice that, kindly add the below mentioned vendors also b) Core : 1.Baoshan Iron & Steel Co, China 2.NOVOLIPESK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA  d) Transformer Oil : Apar, Savita, Gandhar & Raj petro  Kindly Confirm.	Specification to be complied.

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5	As per clause: 10	<b>As per Clause.No:10: Inspection in Store:</b> b) In case the transformers proposed for supply against the order are not exactly as per the tested design, the Bidder shall be required to carry out the short circuit test and impulse voltage withstand test at its own cost in the presence of the representative of the TATA POWER DISCOM	Against this clause we will submit the type test reports of similar or higher rating, if type test reports in line with the specification are required, same will be provided before commencement of supply.	Type Test Reports for Relevant specification and all the tests shall be conducted at CPRI / ERDA as per the relevant standards. The Type tests should have been conducted in during the period not exceeding 5 years from the date of opening the bid.																		
6	As per clause:5.20.	<b>As Per Clause No.5.20.WTI:</b> In one winding of each phase & WTI For LV side  <b>WTI CT for LV Side</b> <table><tr><th>Core</th><th>Purpose</th><th>CTR for 5 MVA &amp; 8 MVA</th><th>Class</th><th>Burden</th><th>Knee Point Volt</th><th>Imag at V<sub>k</sub>/2</th><th>ISF</th><th>Rct</th></tr><tr><td>I</td><td>WTI</td><td>262/1A (5 MVA) 420/1A (8MVA)</td><td>0.5</td><td>30 VA</td><td>-</td><td>-</td><td>&lt;10</td><td>-</td></tr></table>	Core	Purpose	CTR for 5 MVA & 8 MVA	Class	Burden	Knee Point Volt	Imag at V <sub>k</sub> /2	ISF	Rct	I	WTI	262/1A (5 MVA) 420/1A (8MVA)	0.5	30 VA	-	-	<10	-	Against this we will provide WTI in "W" phase of LV winding in transformer. Since these CTS are use for measuring purpose and same will be located near to temperature devices hence, The current of CT as per the given table however, class of CT will be 3 and Burden of CT will be 10VA.  Kindly Confirm.	Specification to be complied.
Core	Purpose	CTR for 5 MVA & 8 MVA	Class	Burden	Knee Point Volt	Imag at V <sub>k</sub> /2	ISF	Rct														
I	WTI	262/1A (5 MVA) 420/1A (8MVA)	0.5	30 VA	-	-	<10	-														
7	Clause No.5.20.	<b>As per Clause No.5.20. NOTE:</b> I. Equipment for remote winding and oil temperature Indicators including these to be installed in the TATA POWER DISCOM control room shall be provided. Pocket with heater coil and CT for RTD for winding hot spots shall be provided.  II. For purpose of remote recording and data acquisition system, Top oil temperature detector along with suitable transducer and other necessary devices to provide two sets of 4-20 mA signals with PT-100 type of sensors.	Against this we will provide OTI & WTI with inbuilt RTD & PT-100 sensors. We confirm that ready availability two sets of 4-20mA in our Marshalling box.  Kindly Confirm.	Specification to be complied																		

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8	Clause No.5.23.	<b>As Per Clause No.5.23. Marshalling Box:</b> II. Two sets of independent, potential free contacts shall be provided for various alarms/trips as detailed below. The auxiliary voltage for alarm/ trip circuit shall be station controlled DC for 33/11kV Transformer). For PTR # Potential free contacts is required for a. Buchholz alarm b. OTI alarm c. WTI alarm (LV side WTI CT) d. MOG (main) alarm e. Buchholz trip f. OTI trip g. WTI trip (LV based on WTI CT) h. PRV trip i. MOG (OLTC) Alarm j. OSR trip k. AC supply fail l. Motor Auto Trip m. Air-cell leakage detection	Against this except MOG we shall provide only 1No contact only due to no availability of 2No contacts for devices.  Kindly Confirm.	Specification to be complied
9	As per clause:8	<b>As per Clause No.8: Type test certificates:</b> The Bidder shall furnish the type test certificates of the Two Winding Power Transformer for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI / ERDA as per the relevant standards. Type tests should have been conducted in during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the test reports, i.e. any test report not acceptable or any/all type tests (including additional type tests, if any) not carried out, same shall be carried out without any cost implication to the TATA POWER DISCOM. Note: Type test Validity will be as per CEA guideline.	We wish to bring to your kind notice that, we will provide similar type test reports at the time of bidding and offered design type test reports will be provided before commencement of supplies.  Kindly accept.	Type Test Reports for Relevant specification and all the tests shall be conducted at CPRI / ERDA as per the relevant standards. The Type tests should have been conducted in during the period not exceeding 5 years from the date of opening the bid.
10	As per clause:4	<b>As Per Clause No.4.19. General Technical parameters:</b> Maximum Flux Density - 1.6 Tesla	We wish to bring to your kind notice that, all other boards of tata power i.e TPSODL,TPNODL&TPWODL are following the flux density in any part of the cores and yoke at normal voltage and frequency shall not be more than 1.69 Tesla and flux density at 112.5% of combined voltage and frequency variation condition should be 1.9 Tesla.  So Kindly Confirm?	Specification to be complied
11	As per clause:4,5.2	<b>As Per Clause No.4.25. General Technical parameters:</b> Core Material - CRGO Silicon Steel, M3, 23HP85D(0.23mm) or better & <b>As per Clause No.5.2.CORE:</b> II. The grade of core shall be M3, 23HP85D (0.23mm) or better	Against this, we shall provide the Core Grade - M3 or better by meeting the no load loss required.  Kindly confirm.	Specification to be complied
12	As per clause:5.8	<b>As per Clause No.5.8</b> Option 2 : (33KV Outdoor Switchyard and 11KV indoor AIS ) C. Frame for cable mountingwith HDPE cleats.	We wish to bring to your kind notice that, against this Frame for cable mounting with HDPE cleats are not in bidder scope of supply.  Kindly Confirm.	Ok Noted

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13	As per clause:5.8(XI)	<b>As per Clause No.5.8(XI):</b> Termination Arrangement on 11KV and 33KV Side Option 1: (33KV Indoor AIS/GIS and 11KV indoor AIS ) Option 2 : (33KV Outdoor Switchyard and 11KV indoor AIS )	We wish to bring to your kind notice that, Against this kindly confirm the Termination arrangement i.e with Option -1 or option-2.	Bare bushing to be consider on both side
14	As per clause:5.13	<b>As per Clause No.5.13. Oil Preserving Equipment:</b> iv. Prismatic oil level indicators with red colour float shall be provided on main tank and OLTC tank conservator.	We wish to bring to your kind notice that, we have observed that oil leaks due to using prismatic oil level indicators. So, against this we will provide plain oil level indicator with the aluminium support.  Kindly Confirm.	Specification to be complied
15	As per clause:5.13	<b>As per Clause No.5.13. Oil Preserving Equipment:</b> v. Separate conservator tank shall be provided for OLTC.	We wish to bring to your kind notice that, against this we will provide a separate conservator for OLTC in the same compartment along with the mian tank conservator.  Kindly Confirm.	Specification to be complied
16	As per clause:5.22	<b>As per Clause No.5.22. MOG:</b> Sl.No.1. Mounting Pad Diameter - 150mm	We wish to bring to your kind notice that, we will provide the 150 mm diameter MOG for Main tank conservator.And since the OLTC conservator is small, so we are providing 100mm diameter MOG for OLTC conservator.  Kindly confirm.	As per Cl. 5.14 (III)Magnetic Oil Level Indicator (MOG), round in shape having a diameter of 100 mm. Hence Specification to be complied
17	As per clause:5.23	<b>As per Clause No.5.23. Marshalling Box.</b>  Sl.No.14. Auto manual selector switch - Potential free contact in marshalling box.	We wish to bring to your kind notice that, the operation of OLTC to be done in SCADA only. Hence, auto manual selector switch need to installed in SCADA only. So, the potential free contact to be available there only.  Kindly Confirm.	As per Cl. 5.23 (I) All the wiring shall have provision for connection to SCADA. Hence specification to be complied.
18	As per clause:7.2	<b>As per Clause No.7.2. TYPE TEST:</b> 10. Test to verify IP55 of Marshalling and cable boxes(if applicable)	We wish to bring to your kind notice that, against this cable boxes are not applicable. Hence the Marshalling box is complied to IP 55 only. So, there is no need to test.  Kindly Confirm.	Cable Boxes not required
19	As per clause:7.2	<b>As per Clause No.7.2. TYPE TEST:</b> 7. Temperature rise for determing the maximum temperature rise after continuous full load run.	We wish to bring to your kind notice that, we will conduct temperature rise test in our NABL accredited laboratory.  Kindly Confirm.	Specification to be complied
20	As per clause:7.2	<b>As per Clause No.7.2. TYPE TEST:</b> 8. Tests on On-load tap changer.	We wish to bring to your kind notice that, we will submit test reports from OEM.  Kindly Confirm.	Specification to be complied

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21	As per clause:5.0	<b>Clause.No:5 GENERALCONSTRUCTION:(III)</b> All fasteners of M10 and below size should be of stainless steel. All fasteners of M12 and above size should be hot dip galvanized. To achieve a good quality corrosion free painting, bidder should provide epoxy plus polyurethane paint with minimum paint thickness of 120 microns.	Since transformer having requirement of Nut bolt on multiple location and we have facing the issue by using SS nut bolt in past. Its thread are breaking during service condition. Hence we have change to hot-dip galvanised type Nut bolt. Which is widely used across transformer industries. We request you to please accept the same.	Specification to be complied
22	As per clause:5.21	<b>As per Clause No.5.21. VALVE-II</b> Each valve shall be provided with an indicator to show the open and closed positions and shall be provided with facility for padlocking in either open or closed position. All screwed valves shall be furnished with pipe plugs for protection. Padlocks with duplicate keys shall be supplied along with the valves.	Please be noted practically it is not possible to keep the locks in valve due to non-availability of suitable locks for valve. However, we can provide the lead seals and suitable packing for the same.	Specification to be complied
23	As per clause:5.20.	<b>As per Clause No.20.WTI-Note:III</b> Tap changer indicator of OLTC along with suitable transducer and other necessary devices to provide two sets of 4-20mA signals along with one set of 1-16 K resistance output shall be provided.	1-16K resistance output same has to be connected to transducer which is available in RTCC panel or protection panel. However as per tender specification RTCC panel is not in our scope of supply. Hence same is not in our scope of work.	Specification to be complied
24	As per clause:5.15	<b>As per Clause No.5.15.ONLOADTAPCHANGER-VII</b> The OLTC motor shall be provided with 415 V auto changeover facilities. Tap position indication along with the various alarms of tap changer shall be indicated in the marshaling box.	please note that the supply arrangement has to be made in the RTCC panel. However, the panel is not supplied by us hence 415V auto changeover facilities not in our scope of work.	RTCC and TMU are not in scope of bidder, however the OLTC motor shall be provided with 415 V auto changeover facilities.
25	As per clause no. 5.4(ii)	Inter layer insulation both for HV and LV windings shall be DPC and compressed pressboard of reputed make (subject to approval of TATA POWER DISCOM).	In case of the winding construction considered for the offered transformers, inter-layer insulation is not required (as per type tested design)	For inter layer insulation compressed pressboard of reputed make is applicable.
26	As per clause no. 12: . PACKING AND TRANSPORT:	9. A Shock recorder also shall be provided during transport. Data of the same shall be shared during execution.	For these smaller rating power transformers shock/impact recorders are not required and same are not provided.	Ok Noted
27	GTP-10:	a) Partial discharge level :	a) Partial discharge test is not applicable below 66kV voltage class transformer. Kindly confirm	Ok Noted
28	As per clause no. 6	6. NAME PLATE AND MARKING RATING PLATE QR code shall be provided on name plate. QR code shall contain the name plate details, approved GTP/Drawing and a video of overall functionality of transformer & associated components	In line with the earlier executed orders, QR plate shall be provided separately which shall contain OEM name, Rating, Voltage Class, Losses, Conductor material etc.	Specification to be complied
29	As per clause no. 6	6. NAME PLATE AND MARKING RATING PLATE "Sign writing shall also be provided as per the format attached with this specification	Request to kindly provide the sign writing document for our review and re confirmation.	Name Plate as per standard to be provide
30	As per clause no. 6(ff)	6. NAME PLATE AND MARKING RATING PLATE ff) Tan delta value of insulating oil and Kraft paper of transformer.	Kindly note that, in line with the earlier executed orders, Tan-delta value of insulating oil & Kraft paper to be considered from respective oil supplier's datasheets/test reports and these values can not be provided on rating plates.	Ok Noted
31	As per clause no. 5.17	5. GENERAL CONSTRUCTION 5.17 PRESSURE RELEASE VALVE 15. Marking: The unit shall be appropriately marked as TATA POWER DISCOM and with the name of the vendor, Manufacturer type/ serial no. and year of manufacturing at suitable location.	Fittings provided to the transformer as per the respective supplier's standard / catalogue products and in line with our earlier supplies, any of the components shall not be having respective TPCODL /TPSODL/TPNODL/TPWODL marking on them.	Ok Noted

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32	As per clause no. 5.22	5. GENERAL CONSTRUCTION 5.22 MOG 17. Marking: The unit shall be appropriately marked as "TATA POWER DISCOM" and with the name of the vendor, Manufacturer type / serial no. and year of manufacturing at suitable location.	Please confirm	Ok Noted
33	As per clause no. 5.8	5. GENERAL CONSTRUCTION 5.8 BUSHINGS: I. The insulation class of the high voltage neutral bushing shall be properly co-ordinate with the insulation class of the neutral of the high voltage winding	As the offered transformer is with vector group of Dyn11. Only LV side neutral is provided. Please confirm.	Only LV side neutral to be provide confirming with vector group of DYn11
34	As per clause no. 2.0	2.0. Evaluation Criteria Note: For 5 MVA - It is intended not to split the contract. Maximum 03 nos. of eligible bidders (L-1 to L-3) shall be allowed in RA process. Balance bidders i.e. L4, L5 & and so on, would not be allowed to participate in the RA process. For 8 MVA - It is intended to split the contract. Maximum 04 nos. of eligible bidders (L-1 to L-4) shall be allowed in RA process. Balance bidders i.e. L5, L6 & and so on, would not be allowed to participate in the RA process.	Against this, we request you to allow all the bidders who are qualified techno-commercially. Since, this clause is not mentioned in the M/s. TATA Power subsidiary DISCOMs (i.e., M/s. TPDDL, TPCL, Mumbai and in previous Tata Power Odisha DISCOM tenders).  So, we request you to remove the restriction on not allowing the highest bidders for RA and allow all the bidders to participate in the Reverse auction unconditionally.	No Change, Tender conditions to be complied.
35	As per clause no. 2.1	2.1. Price Variation Clause: After finalization of the tender, Rate Contract shall be issued to the successful bidder with a validity period of One Year. Prices shall remain variable as per IEEMA. PV Clause shall be applicable with ceiling up to 10% on positive side & there is no ceiling on negative side. March 2025 is the Base Month for PVC (IEEMA Circular February 2025). Within the validity of the rate contract and as per requirement of material, release order shall be issued from time to time.	We wish to bring to your kind notice that, as this tender is on rate contract basis for One Year, there will be possibility of abnormal fluctuation in the prices, here we request you to modify this clause as follows:  After finalization of the tender, Rate Contract shall be issued to the successful bidder with a validity period of One Year. Prices shall remain variable as per IEEMA. PV Clause shall be applicable with ceiling up to 50% on positive side & there is no ceiling on negative side. March 2025 is the Base Month for PVC (IEEMA Circular February 2025). Within the validity of the rate contract and as per requirement of material, release order shall be issued from time to time.	No Change, Tender conditions to be complied.
36	As per clause no. 7.2 Payment Terms	7.2 Payment Terms: 100% payment within 60 days of submission of error-free Invoice complete in all respects. However, for MSME the payment cycle shall be 45 days.	We bring to your kind notice that, many DISCOMs releasing the payment within 30 days from the date of receipt of materials /submission of bills. So, please amend the payment terms as follows:  100% payment shall be made within 30 days from the receipt and acceptance of the material at the Consignee Stores/ Site/ Location as per the Contractual terms and conditions herein upon submission of error-free invoices.	No Change, Tender conditions to be complied.
37	As per Clause no. 7.0. Post Award Contract Administration	7.1. Special Conditions of Contract:  Delivery Period: The Delivery period shall be 120 days from the date of receipt of release order or approval of drawing / GTP, whichever is later.	We request you to amend this clause as follows:  Delivery Period: The Delivery period shall be 150 days from the date of receipt of release order or approval of drawing / GTP, whichever is later.	No Change, Tender conditions to be complied.