Tender No.TPCODL/CCG/23-24/014

Package Name: Rate Contract for Supply of Power Transformer of various rating for TPCODL/TPNODL/TPWODL/TPSODL

Pre-Bid Clarification

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
1	2	3	4	5
3-Phase 1MVA Transformer				
1	ENG-HV-2002	**As per Clause No.4.0 General Technical Requirements:** 22.0 Normal flux density (at rated voltage and frequency) – 1.6T 26.Maximum flux density (Increase of +12.5% combined voltage and frequency variation from rated voltage and frequency) - 1.9T	We request you to kindly allow the Normal flux density (at rated voltage and frequency) up to 1.69T which is in limits, as the Max flux density(Increase of +12.5% combined voltage and frequency variation form the rated voltage and frequency) is 1.9T (i.e-1.9 Tesla Max/1.125%=1.6888 Tesla)	As per Tender Clause
2	ENG-HV-2002	**As per Clause no.5.17,** VII. For DT up to 1600kVA, the conservator to be fitted with float switches such that it shall operate/open contact when the oil level in conservator goes below -5 degree C /Minimum mark. The float switch shall be with normally closed type. This contact shall be wired up in auxiliary terminal box. **As per Clause no.5.28** XXIV. Magnetic Oil level Gauge (>1600kVA),	We wish to bring to your kind notice that, these two clauses are contradicting to each other .Kindly confirm requirement of MOG rating wise.	MOG is required

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3	ENG-HV-2002	**5.2 WINDING CONNECTIONS** I. Primary and secondary windings shall be constructed from high- conductivity (copper conductors), Double Paper Covered (DPC) copper conductor with min. 25% overlap per layer of paper. **5.3 INSULATING PAPER AND INSULATING PRESSBOARD** II. Primary and secondary windings shall be constructed from high- conductivity (copper conductors), Double Paper Covered (DPC) copper conductor with min. 25% overlap per layer of paper.	We wish to bring to your kind notice that, transformers with foil winding has low axial forces during short circuit resulting into better short circuit withstand capability when compared to strip windings. And also there will be no shearing stress between turns. Kindly allow to use Foil winding.	This shall be as per TS
4	ENG-HV-2002	**5.16 OIL** Note: Default Oil shall be Mineral oil only if not specified / asked for other oil.	No special note was found. Hence it is presumed that the oil is mineral oil. All parameters as per clause no. 5.16 – Mineral Oil.	Type-2 Un-Inhibited Mineral Oil
5	ENG-HV-2002	**4. GENERAL TECHNICAL REQUIREMENTS:** 28. Metering CT for LV side **5.12 METERING CURRENT TRANSFORMERS (This shall be decided during tender by user group.)**	Kindly confirm the requirement of Metering CT's	Metering CT is not required

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6	ENG-HV-2002	**5.2 WINDING CONNECTIONS** I. Primary and secondary windings shall be constructed from high- conductivity (copper conductors), Double Paper Covered (DPC) copper conductor with min. 25% overlap per layer of paper. **5.3 INSULATING PAPER AND INSULATING PRESSBOARD** II. Primary and secondary windings shall be constructed from high- conductivity (copper conductors), Double Paper Covered (DPC) copper conductor with min. 25% overlap per layer of paper.	We wish to bring to your kind notice that, Option for Super enamel covering is also mentioned in the guidelines for energy efficient distribution transformers, issued by Central Electricity Authority(CEA). So kindly provide the provision for Super enamel covered aluminium conductor also. Kindly confirm	This shall be as per TS
7	ENG-HV-2002	**5.1 CORE:** III. Core should be coated with hot oil proof, with insulation coating, an inorganic coating equivalent to C-5 type as ASTM A976 or IS 3024, like Carlite -3.	We wish to bring to your kind notice that, CRGO manufacturers are providing insulation coating on CRGO as per IS: 3024, C-5 over C-2. Kindly confirm shall we proceed with C-5 over C-2 instead of C-5.	C-5 over C-2

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8	ENG-HV-2002	**5.9 BUSHINGS AND TERMINAL CONNECTORS** Option 1: Outdoor Bushing on Top with Bird Guard Option 2: Side bushing with Cable box VII. In some situation Plinth mounted transformer may require outdoor bushing arrangement. This shall be decided during tender by user group. **5.10 CABLE BOXES** HV CABLE BOX (option 2, ref: 5.9.A): XIV. The HV box shall be designed and fixed on transformer such way that only opening of cover shall facilitate for working on cable termination with ease of accessibility of terminal.	Kindly confirm the requirement of cable box on HV side.	Both HV and LV shall have bare bushing.
9	ENG-HV-2002	**5.12 METERING CURRENT TRANSFORMERS (This shall be decided during tender by user group.)** I) Cast Resin Type CTs shall be provided for transformers on the LT side for metering purpose.	We wish to bring to your kind notice that, against this we will provide Oil Immersed Type CTs Instead Cast Resin Type CTs. If there is requirement for Metering CTs on the LT side. Kindly Confirm.	Metering compartment in transformer is not required

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10	ENG-HV-2002	**As per Clause no.8: TYPE TEST CERTIFICATES:** I. The Bidder shall furnish the type test certificates of the offered rating and design of transformer for the tests as mentioned above as per the corresponding standards.	We reqeust you to kindly allow us to submit the similar (or) higher rating /voltage class type test reports at the time of bidding for evaluation purpose.However, we shall conduct and submit the type test reports as per the tender sepcification and offered design upon receipt of order at our cost without affecting the delivery schedule. Please review and confirm your acceptance.	As per Tender Clause
3.15MVA Outdoor power transformer -Off Load tap Changer				
10	ENG-HV -XXXX / Clause.No:1,4.b & 4.21	**As Per Clause No.1. SCOPE** The maximum flux density in any part of the core and yoke at normal voltage and frequency shall not be more than 1.6 Tesla. **As Per Clause No.4.b.** The maximum flux density in any part of the core and yoke shall be 1.6Tesla(max.)at rated MVA, Voltage and frequency. **As Per Clause.4.21.** Maximum flux density in any part of the core and yoke at rated MVA, rated voltage i.e 33KV / 11KV and system frequency of 50HZ - 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?	This shall be as per TS

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11	ENG-HV -XXXX / Clause.No:5.3.vi	**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 TS
12	ENG-HV -XXXX / Clause.No:4.6	**As per clause no:4.6:** Type of mounting - On Wheels, Mounted on rails	We wish to bring to your kind notice that, supply of rails is not in SSEL scope of supply.	Accepted
13	ENG-HV -XXXX / Clause.No:4.35	**As per clause no:4.35:** Losses: The losses shall not exceed the value give below a)No load loss(fixed losses)KW - 3.15MVA - 3.0KW b)Load losses at 75 Deg C - 3.15MVA - 17KW	We wish to bring to your kind notice that, all other boards of tata power i.e TPSODL,TPNODL&TPWODL and all other Electricity Boards procure with the below Losses. So Kindly Amend this as below. **For 3.15MVA:** **No Load Lsses :3KW Max** **Load Losses : 16 kW Max**	Lower losses are preferred at no external cost
14	ENG-HV -XXXX / Clause.No:4.31,5.3(Viii)	**As Per Clause No.4.31:** Maximum current density for HV and LV winding for rated current - 2.4 A / mm² at min tap. **As Per Clause No.5.3(Viii):** Current density adopted in the all windings shall not be exceeds 2.4 Amps/Sq.mm	Against this we will follow the Max. current density at normal tap 2.4Amps/Sq.mm as per Clause No.5.3(VIII) and current density at minimum tap will be more than 2.4 Amps/Sq.mm. Kindly Confirm?	In no case current density shall exceed 2.4Amp

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15	ENG-HV -XXXX/ Clause.No:8	As Per Clause No.8: Type Test Certificates: The bidder shall furnish the type test certificates of the offered rating and design of transformer for the tests as mentioned above as per the corresponding standards.All the tests shall be conducted at CPRI / ERDA or as defined in 7.3 as per the revelant standards.In the event of any discrepancy in the test reports, i.e any test reports not acceptable or any/all type tests (including additional type tests, if any)not carried out, same shall be carries out without any cost implication to TPCODL/TPWODL/TPNODL/TPSODL. Type tests should have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	We reqeust you to kindly allow us to submit the similar (or) higher rating with 33/11kV voltage class type test reports at the time of bidding for evaluation purpose.However, we shall conduct and submit the type test reports as per the tender sepcification and offered design upon receipt of order at our cost without affecting the delivery schedule. Please review and confirm your acceptance.	As per Tender Clause
16	ENG-HV -XXXX/ Clause.No:4	**As per Clause No.4.15:** Percentage impedance voltage on normal tap and MVA base at 750 C corresponding to HV /LV rating and applicable tolerances : a)% impedance --- 6.25 b) Tolerance% --- (+10)(No negative tolerance will be allowed))	We wish to bring to your kind notice that, against this tolerance shall be as per IS 2026 Part-1, Clause 9, Table No.1. Kindly Confirm	This shall be as per TS

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17	ENG-HV -XXXX	**As per Specification of 5 & 8 MVA Clause 5.27: MAKE OF MAJOR COMPONENTS & RAW MATERIALS** b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel.	We wish to bring to your kind notice that, we considering same core makes of 5 & 8MVA for 3.15MVA also along with that kindly add the below mentioned vendors also 1.Baoshan Iron & Steel Co, China 2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik 3.NOVOLIPESTSK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA Kindly Confirm.	This shall be as per TS
5MVA & 8MVA power transformer				
18	ENG-EHV-1001 / Clause.No:4.1(30) &Clause.No:5.3(v)	**Clause.No:4.1(30)** Maximum current density for HV and LV winding for rated current given as -2.4 Amps/Sq.mm **Clause.No:5.3(v)** The current density of coil shall not exceed 2.4 Amps/ sq mm at min tap of respective PTR's higher rating	Against this we will follow the Max. current density at normal tap 2.4Amps/Sq.mm as per Clause No 4.1(30). Kindly Confirm?	In no case current density shall exceed 2.4Amp

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19	ENG-EHV-1001 / Clause.No:4.1(34)	**Clause.No:4.1(34)** **For 5MVA** No Load losses : 3.6kW Max Load Losses : 20kW Max. **For 8MVA** No Load losses : 4.2kW Max Load Losses : 32kW Max.	We wish to bring to your kind notice that, all other boards of tata power i.e TPWODL,TPNODL & TPCODL and all other Electricity Boards procure with the below Losses for 5MVA and 8MVA. So Kindly Amend this as below. **For 5MVA** No Load losses : 4kW Max Load Losses : 23kW Max. **For 8MVA** No Load losses : 5.5kW Max Load Losses : 40kW Max. Kindly Confirm.	This shall be as per TS
20	ENG-ELC-1001 / Clause.No:4.1(40(b))/ Page.No: 7	**Clause.No:4.1(40(b))** Tap range given as : + 4.686% to -20.606% in steps of 1.56%	Against this we will provide the tap range +4.686% to -20.28% in step of 1.56% to achive 16 steps/17 position as rated voltage with step percentage of 1.56%. Kindly confirm?	Accepted

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21	ENG-EHV-1001 / Clause.No:4.2(VII) &5.15(XI)((XIII)	**Clause.No:4.2(VII)** 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. **Clause.No:5.15(XI)** **Automatic / Parallel Operation with OLTC** OLTC shall be able to do automatic / parallel operations through Transformer Monitoring Unit(TMU). **Clause.No:5.15(XIII)** 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 provideing the OLTC with RTCC and AVR sutiable to SCADA compatible.TMU is not in SSE scope of Supply. Kindly confirm?	TMU not in scope of supplier, But it should be compatible.
22	ENG-EHV-1001 / Clause.No:5.6,5.7 & 5.26	**As per Painting:5.6** vi. The paint shade used shall be shade 631 as per IS: 5. **As per Painting:5.6** **ii.** Before shipment all steel work not under oil shall be painted with a primary coat of anti-corrosive paint of durable nature and two coats of battleship grey paint (Shade 631 of IS: 5). **As per Surface preparation and painting: 5.7** iii.The two coats shall be of oil and weather-resistant nature with final coat as flossy and non-fading paint of shade 631 as per IS 5 or RAL 7032**.** **As Per Clause No.5.26: Anti Rusting Corrosion Treatment** **vii.** The Paint shade used shall be shade 631 as per IS 5.	We wish to bring to your kind notice that, these clauses are contradicting to each other. Please confirm the Paint shade for Transformer.	RAL 631 or 7032 as IS 5
23	ENG-EHV-1001 / Clause.No: 5.2(xiii)	**As per Clause No:5.2(xiii).** 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?	Accepted

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24	ENG-EHV-1001 / Clause.No:Special Test	**As per clause no: Special Test** e) Long duration induced AC voltage test (ACLD) transformer winding 72.5<Um≤170kV.	We wish to bring to your kind notice that, HV and LV voltage doesn't fall in this category. So it is not applicable.	Accepted
25	ENG-EHV-1001 / Clause.No:5.24	**As per Clause No.5.24:** NITROGEN INJECTION DRAIN AND STIR SYSTEM	We presume that supply of NIFPS is not in our scope. Kindly confirm the same.	NIFPS is applicable 12.5 MVA and Above. For 5&8 MVA NIFPS is not required.
26	ENG-EHV-1001 / Clause.No:5.27	**As per Clause No.5.27: MAKE OF MAJOR COMPONENTS & RAW MATERIALS** b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel.	We wish to bring to your kind notice that, kindly add the below mentioned vendors also: 1.Baoshan Iron & Steel Co, China 2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik 3.NOVOLIPESTSK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA Kindly Confirm.	This shall be as per TS
27	ENG-EHV-1001/ As per clasue: 10	**As per Clause.No:10: Inspection in Store:** 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 TPCODL/TPNODL/TPWODL/TPSODL.	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.	As per Tender Clause

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28	ENG-EHV-1001 / As per clasue:5.9.vi.g	**As Per Clause No.5.9.V.g** Top Oil Filling Pump	Type of cooling is given as ONAN, it means that heat dissipation will be done by Oil Natural and Air Natural. So oil filling pump is not required. Please confirm?	Oil Pump is not require for ONAN
29	ENG-EHV-1001 / As per clasue:3	As per Clause No.3: Type test certificates: 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 TPCODL/TPNODL/TPWODL/TPSODL.	We reqeust you to kindly allow us to submit the similar (or) higher rating with 33/11kV voltage class type test reports at the time of bidding for evaluation purpose.However, we shall conduct and submit the type test reports as per the tender sepcification and offered design upon receipt of order at our cost without affecting the delivery schedule. Please review and confirm your acceptance.	Shall be as per Tender Specification
30	ENG-EHV-1001 / As per clasue:5.8(XI)	As per Clause No.5.8(XI): 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.	Both HV and LV shall have bare bushing.
33/11 KV -12.5/16MVA Power Transformers				

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31	ENG-EHV-1002 / Clause.No:4(15) & 34(b)/ Page : 5 of 61&Page : 7 of 61 & Clause.No:5.3(V)/ Page : 11 of 61	**Clause.No:4(15)** Percentage impedance voltage on normal tap at Base MVA (Tolerance shall be as per IS 2026 Part- 1,Clause 9, Table No.1) **Clause.No:4(34)(b)** Load losses at 75°C KW given as - 58kW (at 12.5 MVA) Clause.No:5.3(V) The current density of coil shall not exceed 2.4 Amps/ sq mm at min tap of respective PTR's higher rating.	Against this Kindly confirm the Base Rating (Referance) for design considaration of all electrical parametres(Current Density, Losses and Impedance) i.e at 12.5MVA or 16MVA. Kindly confirm?	12.5 MVA Base
32	ENG-EHV-1002 / Clause.No:4(30)& Clause.No:5.3(V)/ Page : 6 of 61 &Page : 11 of 61	**Clause.No:4(30)** Maximum current density for HV and LV winding for rated current given as - 2.4 Amps/Sq.mm **Clause.No:5.3(V)** The current density of coil shall not exceed 2.4 Amps/ sq mm at min tap of respective PTR's higher rating.	We wish to bring to your kind notice that, these two clauses are contradicting to each other. Please confirm the maximum Current density.	In no case current shall exceed 2.4 amp at max MVA
33	ENG-EHV-1002 / Clause.No:4(40)(b) / Page : 7 of 61	Tap Range Given as : + 5% to -20% in steps of 1.56%	We wish to bring to your kind notice that,Tap range of +5% to -20% is not possible with step percentage of 1.56%. With the step percentage of 1.56% we can able to provide the tap range of +6.24% to -18.72%. Kindly confirm ?	Not accepted .It should be close to -20 to +5

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34	ENG-EHV-1002 / Clause.No:4(40)(O&P)&Clause No:4.2(VII) & Clause No:5.15(XI) / Page : 8 of 61 & Page : 23 of 61	O) Remote Tap Changer Control Indicator -----No P) SCADA and TMU compatibility ----- Yes **Clause No:4.2(VII):** Transformer shall be compatible for Operation along with Tap Changer Control panel orTransformer Monitoring Unit (TMU). Supply of TMU is not in scope of Bidder. **Clause No:5.15(XI)** OLTC shall be able to do automatic / parallel operations through Transformer Monitoring Unit (TMU).	We wish to bring to your kind notice that, these clauses are contradicting to each other. Please note that Transformer Monitoring Unit (TMU) is not in SSE Scope of supply. If required, we will provide the RTCC,Through this OLTC shall be able to do automatic / parallel operations. Kindly confirm ?	TMU not in scope of supplier, But it should be compatible.
35	ENG-EHV-1002 / Clause.No:4 Page : 8 of 61	**Clause.No:4** HV and LV Neutral CT (Bushing CT) shall be in supplier's scope (CTR shall be decided in detailed Engineering)	We wish to bring your notice that, HV Neutral CT is not applicable Since it is delta connection. Kindly provide the NCT ratio for LV.	NCT is not required
36	ENG-EHV-1002/ Clause.No: 5.3(XI) / Page No:11 of 61	**Clause.No: 5.3(XI)** The change in impedance values between the winding (HV/LV) shall not exceed ±10% of nominal impedance value as specified at all taps on HV/LV side.	Against this we will proceed toletance on Impedance as per IS 2026-Part-1. Kindly confirm?	This shall be as per TS

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37	ENG-EHV-1002/ Clause.No: 5.7(III) & Clause.No: 5.9(II)&Clause.No : 5.9(IV) / Page No:15 of 61&Page No:17 of 61	**Clause.No: 5.7(III)** The two coats shall be of oil and weather-resistant nature with final coat as flossy and nonfading paint of shade 631 as per IS 5 or RAL 7032. **Clause.No: 5.9(II)** Radiators shall be metal spray painted. **Clause.No: 5.9(IV)** The color shade for the radiator shall be shade 631 as per IS: 5.	We wish to bring to your kind notice that, these clauses are contradicting to each other. Please confirm the Paint shade for both Transformer and Radiators.	RAL 631 or 7032 as IS 5
38	ENG-EHV-1002/ Clause.No: 5.27 Page No:36 of 61	**As per Clause No.5.27: MAKE OF MAJOR COMPONENTS & RAW MATERIALS** b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel.	We wish to bring to your kind notice that, kindly add the below mentioned vendors also: 1.Baoshan Iron & Steel Co, China 2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik 3.NOVOLIPESTSK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA Kindly Confirm.	Make shall be as per TS
39	ENG-EHV-1002/ Clause.No: 5.8(XI) Page No:16 of 61	**As per Clause No.5.8(XI):** 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.	Both HV and LV shall have bare bushing.

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40	ENG-EHV-1002/ Clause No:5.5(iX) & Clause No:5.12 / Page No:13 of 61 &19 of 61	**As per Clause No:5.5(iX)** To ensure oil tightness, recessed neoprene or equivalent gaskets shall be used.. **As per Clause No:5.12** All bolted connection to the tank shall be fitted with suitable oil-tight gaskets which shall give satisfactory service under the operating conditions. Gaskets shall be of rubber/Nitrate	We wish to bring to your kind notice that, These clauses are contradicting each other. Against this we will proceed with gaskets of rubber bonded cork or Neoprene rubber bonded cork or equivalent shall be used which shall give satisfactory service under the operating conditions. Kindly confirm?	Neoprene bonded cork is acceptable for top cover only. For all other gaskets neoprene rubber is to be used.
41	ENG-EHV-1002/ Clause.No: 5.2(XIII)/ Page.No: 11 of 61	**As per Clause No:5.2** XIII) 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, grounding lead from the core shall be brought out with 1.1 KV class bushing. Kindly confirm?	Core Grounding lead shall be 11KV
42	ENG-EHV-1002 / Clause.No: 5.9(VI)(g)/ Page.No: 17 of 61	**As per clause no:5.9**: Radiators g) Top oil filling pump.	Type of cooling is given as ONAN/ONAF, it means that heat dissipation will be done by Oil Natural and Air Natural/Oil Natural and Air Forced. So forced Oil cooling with oil filling pump is not required.	Accepted
43	ENG-EHV-1002 / Clause.No: 5.20/ Page.No: 27 of 61	**Clause.No: 5.20** In one winding of each phase as described below	Against this we will provide the 1 No WTI and 1 No. of OTI in marshalling Box . This will shows the Oil and Winding temperature Rises. Kindly Confirm?	1 WTI for LV 1 WTI for HV
44	ENG-EHV-1002 / Clause.No: 7.2/ Page.No:43 of 61	**As per clause no: 7.2) Type tests** e) Long duration induced AC voltage test (ACLD) transformer winding 72.5<Um≤170kV.	We wish to bring to your kind notice that,As per IS 2026-3 This will be applicable for above 72kV.. So it is not applicable. Kindly confirm?	Accepted

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45	ENG-EHV-1002 / Clause.No: 5.24/ Page.No: 32 of 61	**Clause.No: 5.24** NITROGEN INJECTION DRAIN AND STIR SYSTEM	NITROGEN INJECTION DRAIN AND STIR SYSTEM and Non return valve is not in our scope.If required we will provide provision for it . Kindly confirm the same.	NIFPS is in scope of supply of bidder for 12.5 MVA and Above. For 5&8 MVA NIFPS is not required.
46	ENG-EHV-1002 / Clause.No: 12(III)/ Page.No: 48 of 61	**Clause.No: 12(III)** The transformer shall be shipped filled with oil/without oil but with the tank filled with Nitrogen under pressure complete with gas cylinder reducer, connection and pressure gauges. (After testing dew point of the Nitrogen filled	Transformer shall be Transport with Filled Oil. So Nitrogen filling is not Required. Kindly confirm?	Accepted
47	ENG-EHV-1002 / Clause.No: 12(V)/ Page.No: 48 of 61	shock recorder also shall be provided during transport. Data of the same shall be shared during execution.	Generally for this capacity of transformers shock recorders not required for transport. Please confirm.	Accepted
48	ENG-EHV-1002 / Clause.No: 8/ Page.No: 44 of 61	**TYPE TEST CERTIFICATES:** 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/Government Labs 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 TPCODL/TPNODL/TPSODL/TPWODL.	Please note, we are presently executing the orders of 12.5MVA and 12.5/16MVA Power Transformers to Tata Power Discoms. Hence we request you to accept the test reports of 12.5MVA for evaluation purpose, which are conducted within 6 years from the date of tender opening. However, we will conduct and submit the type test reports as per DISCOM specification and offered design upon reciept of order at our cost without affecting the delivery schedule.	Shall be as per Tender Specification

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
49	ENG-EHV-1003/ Clause.No:4(15) & 34(b)	**Clause.No:4(15)** Percentage impedance voltage on normal tap at Base MVA (Tolerance shall be as per IS 2026 Part- 1,Clause 9, Table No.1) **Clause.No:4(34)(b)** Load losses at 75°C KW given as - 64kW	Against this Kindly confirm the Base Rating (Referance) for Given Impedance and Load Losses i.e at 20MVA or 25MVA. Kindly confirm?	20 MVA Base
50	ENG-EHV-1003/Clause.No:4(30)& Clause.No:5.3(V)	**Clause.No:4(30)** Maximum current density for HV and LV winding for rated current given as - 2.4 Amps/Sq.mm **Clause.No:5.3(V)** The current density of coil shall not exceed 2.4 Amps/ sq mm at min tap of respective PTR's higher rating.	We wish to bring to your kind notice that, these two clauses are contradicting to each other.We will proceed current density as per clause no. 4(30). Kindly Confirm.	In no case Current density shall exceed 2.4Amp @ Highest MVA
51	ENG-EHV-1003/Clause.No:4(40)(b)	**As per clause 4.40.(b)** Tap Range Given as : + 4.686% to -20.606 % in steps of 1.56%	Against this we will provide the tap range +4.68% to -20.28% in step of 1.56% to achive 16 steps/17 position as rated voltage with step percentage of 1.56%. Kindly confirm?	Accepted

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
52	ENG-EHV-1003/Clause.No:4(40)(O&P)&Clause No:4.2(VII) & Clause No:5.15(XI)	**Clause No.4(40):** O) Remote Tap Changer Control Indicator -----No P) SCADA and TMU compatibility ----- Yes **Clause No:4.2(VII):** Transformer shall be compatible for Operation along with Tap Changer Control panel orTransformer Monitoring Unit (TMU). Supply of TMU is not in scope of Bidder. **Clause No:5.15(XI)** OLTC shall be able to do automatic / parallel operations through Transformer Monitoring Unit (TMU).	We wish to bring to your kind notice that, these clauses are contradicting to each other. Please note that Transformer Monitoring Unit (TMU) is not in SSE Scope of supply. If required, we will provide the RTCC,Through this OLTC shall be able to do automatic / parallel operations. Kindly confirm ?	TMU not in scope of supplier, But it should be compatible.
53	ENG-EHV-1003/ Clause.No: 5.3(XI)	**Clause.No: 5.3(XI)** The change in impedance values between the winding (HV/LV) shall not exceed ±10% of nominal impedance value as specified at all taps on HV/LV side.	Against this we will proceed toletance on Impedance as per IS 2026-Part-1. Kindly confirm?	This shall be as per TS
54	ENG-EHV-1003/Clause.No: 5.4(II) / Page No:12 of 60	**Clause.No: 5.4(II)** 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 TPCODL).	These will be applicable for Smaller ratings of Layer type winding construction. For this voltage class windings will be made up with Disc, so Inter layer insulation will not applicable. We will provide the Winding insulation with Double or triple paper covered insulation and Axial Wedges/Runners, Spacers with Precompressed Press Board.	EDD Kraft paper is not required

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
55	ENG-EHV-1003/ Clause.No: 5.7(III) & Clause.No: 5.9(II)&Clause.No : 5.9(IV) / Page No:15 of 60 & 17 f 60	**Clause.No: 5.7(III)** The two coats shall be of oil and weather-resistant nature with final coat as flossy and nonfading paint of shade 631 as per IS 5 or RAL 7032. **Clause.No: 5.9(II)** Radiators shall be metal spray painted. **Clause.No: 5.9(IV)** The color shade for the radiator shall be shade 631 as per IS: 5.	We wish to bring to your kind notice that, these clauses are contradicting to each other. Please confirm the Paint shade for both Transformer and Radiators.	The two coats shall be of oil and weather-resistant nature with final coat as flossy and nonfading paint of shade 631 as per IS 5 or RAL 7032
56	ENG-EHV-1003/Clause No:5.5(iX) & Clause No:5.12	**As per Clause No:5.5(iX)** To ensure oil tightness, recessed neoprene or equivalent gaskets shall be used.. **As per Clause No:5.12** All bolted connection to the tank shall be fitted with suitable oil-tight gaskets which shall give satisfactory service under the operating conditions. Gaskets shall be of rubber/Nitrate	We wish to bring to your kind notice that, These clauses are contradicting each other. Against this we will proceed with gaskets of rubber bonded cork or Neoprene rubber bonded cork or equivalent shall be used which shall give satisfactory service under the operating conditions. Kindly confirm?	Neoprene bonded cork is acceptable for top cover only. For all other gaskets neoprene rubber is to be used.
57	ENG-EHV-1003/ Clause.No: 5.2(XIII)	**As per Clause No:5.2** XIII)Core Grounding: 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, grounding lead from the core shall be brought out with 1.1 KV class bushing. Kindly confirm?	Core Grounding lead shall be 11KV

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
58	ENG-EHV-1003/Clause.No: 5.9(VI)(g)	**As per clause no: 5.9**: Radiators g) Top oil filling pump.	Type of cooling is given as ONAN/ONAF, it means that heat dissipation will be done by Oil Natural and Air Natural/Oil Natural and Air Forced. So forced Oil cooling with oil filling pump is not required.	Accepted
59	ENG-EHV-1003/ Clause.No: 5.20	**Clause.No: 5.20** In one winding of each phase as described below	Against this we will provide the 1 No WTI and 1 No. of OTI in marshalling Box . This will shows the Oil and Winding temperature Rises. Kindly Confirm?	1 WTI for LV 1 WTI for HV
60	ENG-EHV-1003/Clause.No: 7.2	**As per clause no: 7.2: SPECIAL TEST** e) Long duration induced AC voltage test (ACLD) transformer winding 72.5<Um≤170kV.	We wish to bring to your kind notice that,As per IS 2026-3 This will be applicable for above 72kV.. So it is not applicable. Kindly confirm?	Accepted
61	ENG-EHV-1003/ Clause.No: 5.24	**Clause.No: 5.24** NITROGEN INJECTION DRAIN AND STIR SYSTEM	NITROGEN INJECTION DRAIN AND STIR SYSTEM and Non return valve is not in our scope.If required we will provide provision for it . Kindly confirm the same.	NIFPS is applicable 12.5 MVA and Above. And in scope of Bidder.
62	ENG-EHV-1003/ Clause.No: 12(III)	**Clause.No: 12(III)** The transformer shall be shipped filled with oil/without oil but with the tank filled with Nitrogen under pressure complete with gas cylinder reducer, connection and pressure gauges. (After testing dew point of the Nitrogen filled.)	Transformer shall be Transport with Filled Oil. So Nitrogen filling is not Required. Kindly confirm?	Nitrogen filling is not required. Transformer shall be oil filled
63	ENG-EHV-1003/Clause.No: 12(V)	v)shock recorder also shall be provided during transport. Data of the same shall be shared during execution.	Generally for this capacity of transformers shock recorders not required for transport. Please confirm.	Shock recorder is not required
64	ENG-EHV-1003/ Clause.No: 17.7(y)	(y):Bushing CT for Neutral (1 no.)	Against this kindly confirm the requirement of neutral CT or Not. IF required then Pelase provide the Neutral CT Details.	for 20 MVA Neutral CT is required

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
65	ENG-EHV-1003/Clause No:5.27.b	**As Per Clause 5.27:MAKE OF MAJOR COMPONENTS & RAW MATERIALS** **b.**Core -- M/S AK Steels, POSCO, Kawasaki/ JFE, Nippon Steel.	We wish to bring to your kind notice that, kindly add the below mentioned vendors also: 1.Baoshan Iron & Steel Co, China 2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik 3.NOVOLIPESTSK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA Kindly Confirm.	Make shall be as per TS
66	ENG-EHV-1003/ Clause.No: 5.8(XI)	5.8.: XI. 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)	Against this, Kindly confirm whether we need to submit with option -1 i.e HV-- cable box and LV -- Cable Box or with Option -2 i.e HV-- Bare bushing on top of top cover and LV -- Cable Box.	Both HV and LV shall have bare bushing.

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
67	ENG-EHV-1003/Clause no. 8	**TYPE TEST CERTIFICATES:** 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/Government Labs 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 TPCODL/TPNODL/TPSODL/TPWODL.	Please note, we are presently executing the orders of 12.5MVA and 12.5/16MVA Power Transformers to Tata Power Discoms. Hence we request you to accept the test reports of 12.5MVA for evaluation purpose, which are conducted within 6 years from the date of tender opening. However, we will conduct and submit the type test reports as per DISCOM specification and offered design upon reciept of order at our cost without affecting the delivery schedule.	Shall be as per Tender Specification
68				
69	Tender NIT no. TPCODL/CCG/ 23-24/014/Clause no. 1.7 Qualification Criteria/Page no. 9 of 25	e) The bidder should have successfully executed either 25% of the total tender qty during last five years; or single order of 15% of the total tender qty during last three years; or 2 orders of 10% each of the total tender qty during last 5 years. Last day of previous month prior to date of bid submission shall be counted for purpose of years calculation. Copy of work order / completion certificate to be submitted in this regard. The bidder should have In-house routine and acceptance testing facilities for acceptance as per relevant IS/IEC. Self-undertaking to be submitted in this regard. TPCODL/ TPNODL/TPWODL/TPSODL reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter.	We bring to your kind notice that, there are very less tenders floated by the DISCOMs in INDIA to call for procurement of Tendered item (1000kVA) or higher rating with voltage class of 11/0.433kV, so it would be difficult to submit the credentials of 1000kVA or above rating Distribution transformers. Further, please note, many power utilities /DISCOMs purchase the power transformers upto 12.5MVA only. We kindly request you to allow us to submit the supply and performance credentials	Power Transformer - 1000kVA 11/0.4kV shall be supply. The same has already mentioned in the price schedule. Also refer the technical specs- ENG-HV-2002 upto 2000kVA. Specification Name : Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu). for other rating: Bidder to comply as per relevant provision mentioned in the tender document. for price variation: PV Clause shall be applicable with ceiling upto 10% on positive side & there is no ceiling on negative side. August 23 is Base Month for PVC (IEEMA Circular- July 23). However, the base price shall remain firm and fixed.

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
70	Tender NIT no. TPCODL/CCG/ 23-24/014/Clause no. 1.7 Qualification Criteria/Page no. 9 of 25	g) The bidder should have performance certificate from at least 2 reputed companies for satisfactory performance of the conductors. The work against the issued certificates should have been completed within 7 years from the bidding date. In case the bidder has got previous association with Tata Power or TPCODL/TPNODL/TPWODL/TPSODL for supply of similar product, performance feedback of the same will be solely considered irrespective of the performance certificate issued by bidder's other customers	pertaining to power transformers with voltage class of 33/11kV including the tendered item for 1000kVA DTRs. Also, allow us to submit the supply credentials pertaining to power transformers with voltage class of 33/11kV 12.5MVA and 16MVA rating as a part of qualification criteria as against for 20/25MVA Power Transformers, which enable us to qualify and being a competitive in this particular tender.	
71	Tender NIT no. TPCODL/CCG/ 23-24/014/Clause no. 2.1. Price Basis/Page no. 10 of 25	Price will be fixed and firm during the contractual period.	As this tender floated on Rate contract basis. Please note, prices of all the major raw materials and components, required for manufacturing of transformers, are increasing abnormally and have reached levels, beyond the imagination of the industry. It would be very difficult to predict the price movement of material for the contractual period mentioned by your company. It would be mutually beneficial, if Price Variation, as per IEEMA formulae, is adopted for this tender as against the "FIRM Price" basis. We request you to accep the Price variation as per the latest IEEMA formulae. Please review and confirm your acceptance.	PV Clause shall be applicable with ceiling upto 10% on positive side & there is no ceiling on negative side. August 23 is Base Month for PVC (IEEMA Circular- July 23). However, the base price shall remain firm and fixed. For other rating, bidder to comply as per relevant provision mentioned in the tender document. E116 for price variation:

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
72	Tender NIT no. TPCODL/CCG/ 23-24/014/Clause no. 7.1. Special Conditions of Contract/Page no. 17 of 25	**Terms of Payment:** On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of TP Central Odisha Distribution Limited/ TP Northern Odisha Distribution Limited/ TP Western Odisha Distribution Limited/ TP Southern Odisha Distribution Limited to Invoice Desk. The payment shall be released within 60 days from the date of submission of certified bills/ invoices.	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: On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of TP Central Odisha Distribution Limited/ TP Northern Odisha Distribution Limited/ TP Western Odisha Distribution Limited/ TP Southern Odisha Distribution Limited to Invoice Desk. **The payment shall be released within 30 days from the date of submission of certified bills/ invoices.**	Bidder to comply as per relevant provision mentioned in the Tender Document.
73	**1.7 Qualification Criteria**	**"e) The bidder should have successfully executed either 25% of the total tender quantity during last five years; or single order of 15% of the total tender quantity during last three years; or 2 orders of 10% each of the total tender quantity during last 5 years. Last day of previous month prior to date of bid submission shall be counted for purpose of years calculation. Copy of work order/completion certificate to be submitted in this regard. The bidder should have in-house**	The evaluation will be done as per rating wise tendered quantity or as per total tendered quantity of all ratings (i.e. 945 Nos.). Kindly clarify.	This shall be as per TS
74			**However, it is to inform you that we have supplied approx. 85 Nos. 1000KVA to 5MVA distribution/power transformers and 12 Nos. power transformers 10MVA to 12.5 MVA to varius power utilities/reputed customers from July 2022 to till date.**	This shall be as per TS

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
75		**submitted in this regard. The bidder should have in-house routine and acceptance testing facilities for acceptance as per relevant IS/IEC. Self undertaking to be submitted in this regard. TPCODL/TPNODL/TPWODL/TPSODL reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter."**	Further, it is also inform you that we have purchase orders for the supply of more than 50 Nos. 5MVA to 10MVA power transformers of power utilities/reputed customers.	This shall be as per TS
76			In view of above, you are requested to kindly allow us to participate in this tender so that you can also get more competitive rates with better product.	This shall be as per TS
77	Clause No. - 4 (Sr. No. 30)	Current Density for HV & LV winding at rated current is 2.4A/Sq.mm whereas clause no. -5.3(V) current Density at Min. Tap should be 2.4 A/Sq. mm	About actual requirement of Current Density needs to be confirmed by the customer	In no case current shall exceed 2.4 amp as max MVA
78	Clause no. - 4 (Sr. No. 40(n))	Whether Separate Tap winding provided for OLTC - 'Yes'	For these ratings of Transformer Separate Tap Winding is not applicable	Separate winding is preferable from where taps are taken,
79	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 TPCODL).	Inter Layer Insulation is not applicable for these ratings of transformer as winding type offfered is continuous disc type.	Accepted
80	Clause No. 5.8	Termination Arrangement on 11KV and 33KV Side :	both Indoor and Outdoor Requirement is mentioned what is actual requirement for this tender needs to be clarify accordingly arrangement will be provided.	Both HV and LV shall have bare bushing.
81	Clause No. 5.1 (X)	The sets of radiator banks shall be connected to the main tank through a header pipe welded to the tank	Radiator for this ratings of transformer is Tank Mounted through Butterfly valves. So this clause is not applicable.	Accepted. Individual Radiator has top and bottom header.

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
82	Clause No. - 5.22 (MOG) Sr. No. 17	The unit shall be appropriately marked as TPCODL and with the name of this vender.Manufacturer type/serial No.and year of manufacturing at suitable location	Please note these are std. fittings marked with supplier name or Logo only	Accepted
83	Clause no. - 5.26 (IV)	For all radiators (If Specifically mentioned) the following painted procedure shall be followed. The metal spray (99.95% assay zinc to a thickness about 100 microns with surface roughening and two coats of paints with proper supervision and quality checks. Bidder shall indicated separate price for metal spray of radiators	Clarification is required in this regard whether Radiator to be supplied with Epoxy Painted or with Hot dip Galvanized.	Epoxy painted
84	GTP Sr. No. - 3.2	Use of continuously transposed conductor (CTC) in LV winding	Please note CTC is not applicable for this rating of transformer as cost will increase with the use of CTC.	As per Tender Clause
85	As per specification clause 5.2,XIII	Core Grounding:	Can we use CT Terminal board in place of 11kV class bushing. Hence very less voltage in ground	Core Grounding Bushing shall be 11KV
86		a) The grounding lead from the core shall be brought out of the tank through a 11kV class		
87		bushing and grounded externally.		
88	As per specification clause 5.4, II	Inter layer insulation both for HV and LV windings shall be DPC and compressed pressboard of reputed make	The Double paper covering will be applicable for conductor covering pupose only and not for inter layer insulation. For higher ratings of voltage class 33/11kV, the winding will be of Disc winding and EDD is not applicable. However, compressed press board of reputed make will be used. Please confirm the same.	EDD Kraft paper is not required
89	As per specification clause 5.7,III	Mentioned zinc chromate shall be applied as primary coat	Against this clause, as Zinc chromate is banned we will use zinc phosphate, please confirm.	Accepted

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
90	As per specification clause 5.24 Nitrogen Injection Drain & Stir System	Mentioned NIDS(nitrogen injection drain system) specification	Against this clause, presume that NIDS is not in our scope of supply. Please review & confirm the provision is required or not.	NIDS is appplicable for 12.5 MVA and above. And shall be in suppliers scope For 5 & 8 MVA NIFPS not required
91	As per specification clause 17	Spares The bidder shall also provide the following mandatory spares along with the transformer.	Huge list of spares are mentioned to supply. these many spares are not economical and difficult to store at sites, which are in remote places. Please review and confirm.	Bidder to comply as per relevant provision mentioned in the Tender Document.
92		a. HT Bushing (1no.)		
93		b. LT Bushing (1no.)……		
94	As per specification clause 17	Spare items	These items are not used in ONAN Type transformer. So please confirm these are not required.	Not applicable for ONAN
95		j). fan contactor with over load relay,		
96		k.) cooling fan -1		
97	As per specification clause 5.8	Hv and LV as cable box and provided cable details	please clarify which option to be consider.	Both HV and LV shall have bare bushing.
98	As per specification clause 5.11	The oil shall comply in all respects with the provisions of IS 335.	Please confirm which type of oil to be consider either IS335 oil or ester oil.	Type-2 Un-Inhibited Mineral Oil
99				
100		Ester Oil.		
101	As per specification clause 5.15,XI	OLTC shall be able to do automatic / parallel operations through Transformer Monitoring Unit (TMU).	We presume TMU, AVR, RTCC panel is not in the scope of bidder	Not in Bidder's scope, But Transformer shoulf be TMU compatible.
102	As per specification clause 5.15,XIII	And		
103		As per specification clause 5.15,XIII		
104		This equipment (TMU) is not required to be supplied by the bidder of the transformer.		

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
105	As per specification clause 5.18	Buchholz relays suitable for nominal pipe bore of 80 mm Should be provided	Against this clause, For 8 & 5MVA rating transformers 50mm pipe is sufficient even CBIP standard also recommends 50mm for ratings less than 10MVA. Please confirm the same.	Accepted
106	As per specification clause 5.1,VII	the neutral shall be formed at the bottom of the winding and brought to LVN bushing through a separate path.	we presume that LV Neutral shall be mounted on top of tank apart from LV phase bushings which are place in cable box	Accepted
107	As per specification clause 12	The transformer shall be shipped filled with oil/without oil but with the tank filled with Nitrogen under pressure complete with gas cylinder reducer, connection and pressure gauges.	Transformer shall be shipped with oil filled up to transport oil level gauge as these are smaller rating transformers. So nitrogen cylinders and pressure gauges are not required and same will not be provided, please confirm the same	Accepted
108	As per specification clause 5.23 j	Mentioned SPR (Sudden pressure relay) trip contact to be provided.	sudden pressure relay shall not be applicable for these ratings of transformer, however we will provide PRD(pressure relief device for main tank and OLTC conservator)	Sudden Pressure relay to be provided for 8 MVA & above ratings .
109	SPECIAL TEST	b. Determination of transient voltage transformer characteristics	These tests are not applicable for this item, because LV voltage winding can be subjected to lightning impulse voltage test.	Accepted
110		e. Long duration induced AC voltage test (ACLD) transformer winding 72.5 <Um≤ 170kV	HV and LV voltage doesn't fall in this category. So it is not applicable.	Accepted

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
111	2.1 Price Basis 7.1. Special Conditions of Contract Annexure-I, Price Schedule Note(b):	Price will be fixed and firm during the contractual period. Prices shall be as per IEEMA PV circular till validity of issued rate contract. PV Clause shall be applicable with ceiling upto 10% on positive side & there is no ceiling on negative side. August 23 is Base Month for PVC (IEEMA Circular- July 23). Rates will remain firm and fixed during the rate contract/PO validity of 1 year.	There is ambiguity in both the clauses regarding Price Variation & base date. We presume "Prices shall be as per IEEMA PV circular till validity of issued rate contract." shall previal. We request you to allow bidders to participate the tender with price variation as per IEEMA Price variation formulae, with base date 01.07.2023 without any ceiling. (As July 23 is Base Month for PVC (IEEMA Circular- Aug 23) has to consider. We request your good office to kindly review and allow bidders to participate with price variation as per IEEMA formulae without any ceiling.	PV Clause shall be applicable with ceiling upto 10% on positive side & there is no ceiling on negative side. August 23 is Base Month for PVC (IEEMA Circular- July 23). However, the base price shall remain firm and fixed.

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
112	7.1. Special Conditions of Contract	Delivery period shall be 90 days from date of receipt of release order / CAT-A issuance, whichever is later	Kindly amend the delivery schedule as below considering lead time for planning, procuring and manufacturing activities. For First RO, Delivery period shall be 150 days from date of RO/ drawing approval/ manufacturing clearance, whichever is later. For subsequent ROs, material shall be delivered within 120 days from date of receipt of release order. We request you to kindly consider and request to amend the delivery timelines accordingly.	Bidder to comply as per relevant provision mentioned in the Tender Document.
113	NITROGEN INJECTION DRAIN AND STIR SYSTEM	Scope of NIDS	Please confirm either provision for NIDS or complete supply of NIDS is in bidder scope. In general for these capacity of Transformers NIDS is not suggestable and as well as not economical. Kindly review.	NIDS is appplicable for 12.5 MVA and above. And shall be in suppliers scope. For 5 & 8 MVA NIDS is not required
114		Conservator		Separate conservator to be provided for OLTC for all ratings.

S. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
115		1.3 Calendar of Events		Bidder are requested to follow the revised calendar event as mentioned below. A) Last Date of Posting Consolidated replies to all the pre-bid queries as received : 20.07.23 (17:00Hrs) B) Last date and time of receipt of Bids: 24.07.23 (17:00 Hrs)