TPCODL TPNODL TPSODL TPWODL

TP Central Odisha Distribution Limited | TP Nothern Odisha Distribution Limited | TP Southern Odisha Distribution Limited | TP Western Odisha Distribution Limited

CENTRALIZED CONTRACTS GROUP

NIT No.: TPCODL / CCG / 2023-24 / 022

Corrigendum- II

TPCODL / CCG / 2023-24 / 022
Rate Contract for Supply of Various Capacity of Distribution Transformers for TPCODL / TPNODL / TPSODL / TPWODL

Dated 27th July 2023

Following changes in Calendar of Events in page no 8 of tender document is made;

- **1.3 Revised Calendar of Events:**

(b)	**Last Date of receipt of Tender Fee**	**29.07.2023 ; 15:00 Hrs**
(e)	**Last date and time of receipt of Bids**	**03.08.2023 up to 15:00 Hrs**
(f)	Date & Time of opening technical bids & EMD	After 03.08.2023 15:00 Hrs

Following changes in Calendar of Events in page no 8 of tender document is made;

- **1.7 Qualification Criteria:**

3. The bidder must have supplied for same or higher rating (33/11 kV Power Transformer also consider);

a. A minimum order of 30% of tender qty. during last 3 years Or,

b. A single order of 20% of tender qty. nos. in last 3 years Or,

c. Two orders of 10% of tender qty. in each, whichever is maximum in last 3 years.

4. The bidder should have performance certificate from at least 2 reputed companies for satisfactory performance of Distribution Transformer. The issued certificate should have been against the Purchase Order issued to the bidder within 7 years from the bidding date. In case the bidder has got previous association with Tata Power / TPCODL / TPNODL / TPWODL 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.

Annexure-I Schedule of Items (Price Bid) in page no 33 & 34 of tender document is made (attached below)

All other terms and conditions of the above tender shall remain unaltered.

Yours faithfully,

-sd-

Head-Contracts
CCG, Bhubaneswar

ANNEXURE I

Schedule for Items (Price Bid)

S. No.	Item Desc.	Rating	UOM	Quantity					Unit Rate (Rs.) (A)	Freight Charges / Unit (Rs.) (B)				GST (in %)	All-inclusive Unit Price (C= Landed Price)				All-inclusive Price (D= C * Qty)				All inclusive Total Price (Rs.)
				TPNODL	TPSODL	TPCODL	TPWODL	Total		TPNODL	TPSODL	TPCODL	TPWODL		TPNODL	TPSODL	TPCODL	TPWODL	TPNODL	TPSODL	TPCODL	TPWODL	
1	Lot-1	25 KVA- 11/0.230kV	EA	674	0	20	0	694															
2		25 KVA- 11/0.433kV	EA	376	21	250	749	1396															
3		63 KVA- 11/0.433kV	EA	380	52	100	1,030	1562															
4		100 KVA- 11/0.433kV	EA	571	80	100	150	901															
5		250 KVA- 11/0.433kV	EA	241	14	200	303	758															
6	Lot-2	315 KVA- 11/0.433kV	EA	0	0	0	70	70															
7		400 KVA- 11/0.433kV	EA	28	0	0	0	28															
8		500 KVA- 11/0.433kV	EA	5	9	150	150	314															
9		630 KVA- 11/0.433kV	EA	2	0	0	0	2															
10		800 KVA- 11/0.433kV	EA	2	0	0	70	72															
11		1000 KVA- 11/0.433kV	EA	2	0	0	8	10															
12	Lot-3	100 KVA- 33/0.433kV	EA	8	5	23	20	56															
13	Lot-4	500 KVA- 33/0.433kV	EA	5	5	3	5	18															
14		630 KVA- 33/0.433kV	EA	0	0	0	8	8															
15		800 KVA- 33/0.433kV	EA	2	0	0	0	2															
16		1000 KVA- 33/0.433kV	EA	2	0	0	0	2															
17		1250 KVA- 33/0.433kV	EA	3	0	4	6	13															
18		1600 KVA- 33/0.433kV	EA	3	0	0	0	3															

NOTE:

- All rates are to be quoted on delivered basis at Discom Sites / Store, Odisha, and should be inclusive of freight, insurance, loading & unloading, handling charges and any other charges which may be applicable.
- The quantity mentioned above is for evaluation purpose only and may vary during the execution.
- It is mandatory to quote the price in line items basis for all Discoms. However, bidder may mentioned about his capacity to deliver in Commercial Deviation. RC will be awarded accordingly.
- The overall period of the Rate Contract / PO shall be for a period of 1 year. PO/ Release Order shall be issued as per requirement of TPCODL / TPNODL / TPSODL / TPWODL.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.
- The bidder must fill each and every column of the above format. ***Mentioning "extra/inclusive" in any of the column may lead for rejection of the price bid.***
- No cutting / overwriting in the prices is permissible.

Packa Rate Contract for Supply of Various Capacity of Distribution Transformers for TPCODL / TPNODL / TPSODL / TPWODL

Pre-Bid Query

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
1	2	3	4	5
Pre-bid queries - Technical				
1Phase 11/0.250kV, 25kVA Distribution Transformers				
1	ENG-HV-2004	**As per Clause No.4: General Technical Requirements:** 30. No Load Current at Rated Voltage - 3% 31. No Load Current at 112.5 % Rated Voltage - 6% & **As per Clause 5.1: Core** X. The No-load current shall not exceed 2% of the Full Load Current and will be measured by energizing the transformer at rated voltage and frequency. Increase of 12.5% of rated voltage shall not increase the no load current by 5% maximum of full load current.	We wish to bring to your kind notice that these two clauses are contradicting to each other, We will Proceed per Clause No 8.9.2 of IS: 1180 (Part-I): 2014, and as per Clause No. 4.30 & 4.31 of Technical Specification. Kindly Confirm	The No-load current shall not exceed 3% of the Full Load Current and will be measured by energizing the transformer at rated voltage and frequency. Increase of 12.5% of rated voltage shall not increase the no load current by 6% maximum of full load current.
2	ENG-HV-2004	**As per Clause 5.1: Core** I. Transformer core shall be wound type, constructed from high grade cold rolled, non-ageing, grain oriented, silicon steel lamination which shall be properly annealed (under inert atmosphere, if required) to relieve stresses.	The tender specification calls for CRGO core only. In this regard, we wish to bring to your kind notice that, many power utilities/ State Electricity Boards in India are procuring the transformers with Amorphous core under equal opportunity basis. Hence, please review and give option for Amorphous core material.	Shall be as per Tender Specification.
3	ENG-HV-2004	**As per Clause 5.2 & 5.4: Windings** Primary and secondary windings shall be constructed from high- conductivity (aluminium conductors), Double Paper Covered (DPC) aluminium conductor of grade 2(Al 99.6%) as per IS 5484 with min. 25% overlap per layer of paper. Epoxy diamond dotted Kraft paper to be used for DPC conductor all rating.	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).Kindly allow us for both super enamel/paper covering.	Shall be as per Tender Specification.
4	ENG-HV-2004	**As per Clause 5.2 & 5.4: Windings** Primary and secondary windings shall be constructed from high- conductivity (aluminium conductors), Double Paper Covered (DPC) aluminium conductor of grade 2(Al 99.6%) as per IS 5484 with min. 25% overlap per layer of paper. Epoxy diamond dotted Kraft paper to be used for DPC conductor all rating.	Plain Kraft paper shall be used for DPC covering on Conductor and is sufficient for Class-A insulation. If EDD paper is used for covering of strip, paper shall break during winding stage and not possible for round condutors with EDD covering. Kindly confirm.	Shall be as per Tendered Specification.

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
5	ENG-HV-2004	**5.5 TRANSFORMER TANK AND TANK CONSTRUCTION** I.The transformer tank shall be hermetically sealed, round type and shall be built up of electrically tested welded mild steel plates of thickness 5 mm (min.) for bottom, top, and 3.15 mm (min) for the sides. The tolerances as per IS 1852 shall be applicable. **4. GENERAL TECHNICAL REQUIREMENTS:** 70. Top and Bottom - 5 mm (Minimum) 71. Side - 3.15 mm (Minimum)	We wish to bring to your kind notice that, Kindly Allow us for Top & Bottom Plate:2.5 mm Min.(Sheet thickness tolerance applicable as per IS 1852) and For sides:2.2mm Min.(Sheet thickness tolerance applicable as per IS 1852). And with the above thickness we will meet the pressure and vacuume test as per technical specification. Kindly Confirm.	Non sealed type. Thickness shall be as per tender specifications.
6	ENG-HV-2004	**5.6 Lifting Lugs & Mounting Lugs**	We Wish to bring to your kind notice that, Kindly Provide the Information about Lifting Lugs (Enclosed type) Construction. Kindly Confirm.	Query not clear
7	ENG-HV-2004	**5. GENERAL CONSTRUCTION:** I. The transformer shall be double wound, aluminium coil, oil immersed, naturally cooled (ONAN) and non sealed type. The Tank construction shall be round type. **5.5 TRANSFORMER TANK AND TANK CONSTRUCTION** I.The transformer tank shall be hermetically sealed, round type and shall be built up of electrically tested welded mild steel plates of thickness 5 mm (min.) for bottom, top, and 3.15 mm (min) for the sides. The tolerances as per IS 1852 shall be applicable.	We wish to bring to your kind notice that, these two clauses are contradicting to each other, kindly confirm the transformer is of sealed type or non sealed type?	Non sealed type. Thickness shall be as per tender specifications.
8	ENG-HV-2004	**DRAIN VALVE AND FILTER VALVE**	We wish to bring to your kind notice that, DRAIN VALVE AND FILTER VALVE are not applicable for single phase transformers as per IS 1180, kindly confirm.	Drain Valve is to be provided along with Filter/oil filling valve
9	ENG-HV-2004	**As per Clause No 5.14: Explosion Vent** i. Explosion vent shall be provided on the top cover. & As per Clause No.5.20: Pressure Release Device	We wish to bring to your kind notice that, these two clauses are contradicting to each other, As per IS:1180(Part-I) latest amendment clause No.20. either Explosion vent or Pressure relief device (for sealed type transformers (for all ratings) and non sealed type transformers (for ratings above 200kVA). Kindly Confirm.	Pressure relief device to be provided
10	ENG-HV-2004	**As per Clause No. 5.9 LV box with MCCB**	Please provide the LV connection diagram (sketch) to clarify each and every part of connection from LV bushing to MCCB and MCCB to further. Similarly on neutral side.	This is to be submitted by bidder during Detailed enegineering for approval. Bidder to comply tender requirements.
11	ENG-HV-2004	**As per Clause No. 5.9.4** The Single phase MCCB box shall be provided with suitable size of Al bus bar w.r.t minimum current density (Calculated) of 1 A / sq.mm. Inside for further distribution of supply.	Kindly amend as "Single phase MCCB Box shall be provided with suitable size of Al busbar w.r.t. maximum current density (calculated) of 1 A/sq. mm, inside for further distribution of supply."	The Single phase MCCB box shall be provided with suitable size of Al bus bar w.r.t **maximum current density (Calculated) of 1 A / sq.mm.** Inside for further distribution of supply.

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
12	ENG-HV-2004	**As per Clause No.5.10: MAKE OF THE MAJOR COMPONENT & MATERIAL** 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.	M/S AK Steels, POSCO, Kawasaki,JFE, Nippon Steel, Thyssenkrupp
3Phase 11/0.4kV, 25kVA to 100kVA Distribution Transformers (Al)				
1	ENG-HV-2001	**As Per Document title** TECHNICAL SPECIFICATION FOR 11/0.4KV DTR(ALUMINIUM) 25-100KVA **&** **1. SCOPE:** This Specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing forwarding, supply and unloading at site/store and performance of Oil immersed, non-sealed, naturally cooled, three Phase 11/0.433 kV, 50Hz, outdoor conventional type, aluminium winding, Distribution Transformer of 25kVA to 100 KVA ratings.	We wish to bring to your kind notice that these two clauses are contradicting to each other. Kindly confirm the voltage class.	Shall be as per scope of the tender specifications i.e. **11/0.433 kV**
2	ENG-HV-2001	**"As per Clause No.4.0 General Technical Requirements:** 20.Normal flux density (at rated voltageand frequency) – 1.6T 21.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)	Shall be as per Tender Specification.
3	ENG-HV-2001	**Clause No.:5.1(I): CORE** **I** Transformer core shall be stack type, constructed from high grade cold rolled, non-ageing, grain oriented, silicon steel lamination which shall be properly annealed (under inert atmosphere, if required) to relieve stresses.	The tender specification calls for CRGO core only. In this regard, we wish to bring to your kind notice that, many power utilities/ State Electricity Boards in India are procuring the transformers with Amorphous core under equal opportunity basis. Hence, please review and give option for Amorphous core material	Shall be as per Tender Specification.
5	ENG-HV-2001	**Clause 5.2 (I)Winding** Primary and secondary windings shall be constructed from high-conductivity(aluminium conductors), Double Paper Covered (DPC) aluminium conductor of grade 2(Al 99.6%) as per IS 5484 with min. 25% overlap per layer of paper. Epoxy diamond dotted Kraft paper to be used for DPC conductor all rating.	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). Kindly allow us for both super enamel/paper covering.	Shall be as per Tender Specification.
6	ENG-HV-2001	**Clause 5.2 (I)Winding** Primary and secondary windings shall be constructed from high-conductivity(aluminium conductors), Double Paper Covered (DPC) aluminium conductor of grade 2(Al 99.6%) as per IS 5484 with min. 25% overlap per layer of paper. Epoxy diamond dotted Kraft paper to be used for DPC conductor all rating.	Plain Kraft paper shall be used for DPC covering on Conductor and is sufficient for Class-A insulation. If EDD paper is used for covering of strip, paper shall break during winding stage and not possible for round condutors with EDD covering. Kindly confirm.	Shall be as per Tender Specification.

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
7	ENG-HV-2001	**Clause no.5.7** For Pole mounted transformers: For Plinth mounted transformers:	Kindly confirm requirment of transformers i.e. plinth mounted or pole mounted.	25kVA-100 kVA shall be pole mounted. Higher ratings shall be plinth mounted
8	ENG-HV-2001	**Clause no.5.12** EXPLOSION VENT	We wish to bring to your kind notice that As per IS:1180(Part-I) latest amendment clause No.20 .. Explosion vent or Pressure relief device (for sealed type transformers (for all ratings) and non sealed type transformers (for ratings above 200kVA). Hence for ratings below 200kVA Explosion vent is not required .Kindly Confirm	Explosion vent to be provided
9	ENG-HV-2001	**Clause no. 5.20** DRAIN VALVE AND FILTER VALVE	We wish to bring to your kind notice that As per IS:1180(Part-I) latest amendment clause No.20 . Fittings,filter valve (for ratings above 200kVA).and drain cum sampling valve shall be provided for ratings above 500kVA. Hence for ratings below 200kVA filter valve and drain valve is not required .Kindly Confirm	Drain Valve is to be provided along with Filter/oil filling valve
10	ENG-HV-2001	**As per Clause No.5.23: MAKE OF MAJOR COMPONENTS & RAW MATERIALS** b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel or equivalent on approval of bidder.	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.	M/S AK Steels, POSCO, Kawasaki,JFE, Nippon Steel, Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik
3Phase 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)				
1	ENG-HV-2002	**As Per Document title** TECHNICAL SPECIFICATION FOR 11/0.4KV 250 to 2000KVA DTR(Copper) & **1. SCOPE:** This Specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing forwarding, supply and unloading at site/store and performance of Oil immersed, non-sealed, naturally cooled, three Phase 11/0.433 kV, 50Hz, outdoor conventional type, copper winding, Distribution Transformer of 250kVA to 2MVA ratings.	We wish to bring to your kind notice that these two clauses are contradicting to each other. Kindly confirm the voltage class.	Shall be as per scope of the tender specifications i.e **11/0.433 kV**
2	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)	Shall be as per Tender Specification.
3	ENG-HV-2002	**As per clause No.5.1 -Core** 1. Transformer core shall be stack type, 2D, constructed from high grade cold rolled, non-ageing, grain oriented, silicon steel lamination which shall be properly annealed (under inert atmosphere, if required) to relieve stresses..	The tender specification calls for CRGO core only. In this regard, we wish to bring to your kind notice that, many power utilities/ State Electricity Boards in India are procuring the transformers with Amorphous core under equal opportunity basis. Hence, please review and give option for Amorphous core material	Shall be as per Tender Specification.

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
4	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.	Noted
5	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.	Shall be as per Tender Specification.
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 copper conductor also. Kindly confirm	Shall be as per Tender Specification.
7	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.	Noted
8	ENG-HV-2002	**As per Clause no.5.17(7),** 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(24)**	We wish to bring to your kind notice that, these two clauses are contradicting to each other .Kindly confirm requirement of MOG rating wise.	For DTs upto 1600 kVA magnetic float switch to be used. For Dts above 1600 kVA MOG to be used.
9	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's are required for above 500 kVA DTR. CT parameters should be as per Technical specifications.
10	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.	HV side should be outdoor type bushing on top with bird guard provision.

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
11	ENG-HV-2002	**As per Clause No.5.32: 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.	M/S AK Steels, POSCO, Kawasaki,JFE, Nippon Steel, Thyssenkrupp
3Phase 33/0.4kV 100kVA to 2000kVA Distribution Transformer (Cu)				
1	ENG-EHV-1004	**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)	Shall be as per Tender Specification.
2	ENG-EHV-1004	**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.	Shall be as per Tender Specification.
3	ENG-EHV-1004	**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.	Noted
4	ENG-EHV-1004	**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's are required for above 500 kVA DTR. CT parameters should be as per Technical specifications.
5	ENG-EHV-1004	**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.	Noted
6	ENG-EHV-1004	**Clause 5.29.WTI** I.WTI shall be Provided in one Winding of each phase.	It is mentioned WTI shall be Provided in one Winding of each phase, but in general WTI is provided only on one winding,one phase of LV. Please clarify.	WTI to be provided only on one winding,one phase of LV
7	ENG-EHV-1004	**Clause 5.17 Conservator:** III. The connecting pipe of the conservator shall be so fitted to transformer tank that the pipe can be detached from the tank.	We wish to bring to your kind notice that detachable conservator is not provided for small rating transformers and is mostly provided for power transformers. So we will provide welded type conservator tank. Kindly confirm.	For transformers upto 100KVA Welded Type Conservator is Acceptable For above 100 kVA detachable conservator is required.
8	ENG-EHV-1004	**As per Clause No.5.32: 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.	M/S AK Steels, POSCO, Kawasaki,JFE, Nippon Steel, Thyssenkrupp

Sr. No.	Detailed Reference to TPCODL Technical	Description as per Bid Document	Remarks - Query / Clarification	CEQG Response
Pre-bid queries - Commercial				
1	Clause no. 1.7 Qualification Criteria/Page no. 9 of 32	3. The bidder must have supplied for same or higher rating ; a. A minimum order of 50% of tender qty. during last 3 years Or, b. A single order of 25% of tender qty. nos. in last 3 years Or, c. Two orders of 15% of tender qty. in each, whichever is maximum in last 3 years.	We bring to your kind notice that, there are very less tenders floated by the DISCOMs in INDIA to call for procurement of transformers with rating above 500kVA, so it would be difficult to submit the credentials of 500 kVA or above rating Distribution transformers. We kindly request you to allow us to submit the supply and performance credentials pertaining to power transformers with voltage class of 33/11kV including the tendered items (for 11kV and 33kV Class) as a part of qualification criteria, which enable us to qualify and being a competitive in this particular tender. please review and confirm your acceptance for the same.	As per Corigendum
2	Clause no. 1.7 Qualification Criteria/Page no. 9 of 32	4. 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 / TPCODL / TPNODL / TPWODL 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.		
3	Clause no. 8.2. Payment Terms/Page no. 24 of 32	100% payment will be made within 60 days for Non-MSME bidders and 45 days in case of MSME bidders on receipt of materials in good condition, verification thereof, subject to inspection of materials by authorized officials & after successful delivery.	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.	As per NIT
4	Clause no. 3.9. Type Tests (if applicable)/Page no. 17 of 32	The type tests specified in CCG specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with CCG.	We request you to kindly allow us to submit the type test reports of Similar or higher rating /voltage class for tender evaluation purpose. However we will conduct and submit the type test reports as per the tender specifciation and offered design upon receipt of order without affecting the delivery schedule at our cost. Please review and confirm your acceptance.	Noted, Please provide undertaking for same in bid document