

TPCODL

TP Central Odisha Distribution Limited

TPNODL

TP Northern Odisha Distribution Limited

TPSODL

TP Southern Odisha Distribution Limited

TPWODL

TP Western Odisha Distribution Limited

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024****Corrigendum- II****NIT No. : TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024****Rate Contract – Supply of Various Capacity of Distribution Transformers for TP Odisha Discoms****Dated 23rd August 2024****Following changes in Calendar of Events in page no 6 of tender document is made;****1.3 Revised Calendar of Events:**

(b)	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation as mentioned in “Procedure to Participate in Tender”	27-08-2024 [15:00 hrs]
(e)	Due date and time of receipt of Bids	31-08-2024 [15:00 hrs]
(f)	Date & Time of opening technical bids	31-08-2024 [16:00 hrs]
(g)	Date & Time of opening of Price of qualified bids	To be notified to the successful bidders

Pre-bid reply attached

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

Yours faithfully,**-sd-****Head-Contracts
CCG, Bhubaneswar**

Format for Pre-Bid Queries

Tender No: TPCODL / CCG / 23-24 / 100000771

Tender Description: Rate Contract - Supply of various capacity of Distribution Transformers for Tata Power Odisha Discoms

Bidder :

Sr. No.	Detailed Reference to NIT. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response
1	2	3	4	5
1	ENG-HV-2001	<p>As Per Document title 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.</p>	We wish to bring to your kind notice that these two clauses are contradicting to each other. Kindly confirm the voltage class.	11/0.433 kV
2	ENG-HV-2001	"As per Clause No.4.0 General Technical Requirements: Normal flux density (at rated voltage and 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 from the rated voltage and frequency) is 1.9T (i.e-1.9 Tesla Max/1.125%=1.6888 Tesla)	Normal flux density (at rated voltage and frequency) – 1.6T
3	ENG-HV-2001	<p>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.</p>	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	This shall be as per TS
4	ENG-HV-2001	<p>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(AI 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.</p>	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.	This shall be as per TS
5	ENG-HV-2001	<p>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(AI 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.</p>	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 conductors with EDD covering. Kindly confirm.	Kraft paper to be used For DPC Inter layer insulation shall be done using EDD Kraft paper
6	ENG-HV-2001	<p>Clause no.5.7 For Pole mounted transformers: For Plinth mounted transformers:</p>	Kindly confirm requirement of transformers i.e. plinth mounted or pole mounted	25 kVA- 100 kVA Pole Mounted 250 kVA and above Plinth mounted

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7	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	This shall be as per TS
8	ENG-HV-2001	Clause No.5.17(II)- Conservator II.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 mostly provided for power transformer .We will provide the welded type conservator. Kindly confirm	Accepted
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	Upto 100KVA Filter Valve is not required. Only Drain Valve is required As per TS, we need both Drain valve and filter valve. Same shall comply TS for 250KVA & Above
10	ENG-HV-2002	As Per Document title Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu) & 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.	11/0.433 kV
11	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 from the rated voltage and frequency) is 1.9T (i.e-1.9 Tesla Max/1.125%=1.6888 Tesla)	Normal flux density (at rated voltageand frequency) – 1.6T
12	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	This shall be as per TS

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13	ENG-HV-2002	<p>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.</p> <p>As per Clause no.5.28(24) XXIV. Magnetic Oil level Gauge (>1600kVA),</p>	We wish to bring to your kind notice that, these two clauses are contradicting to each other .Kindly confirm requirement of MOG rating wise.	<p>This shall be as per TS.</p> <p>For DTs 250 KVA & 1600 kVA the conservator shall 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.</p> <p>For DTs above 1600 kVA, MOG to be provided.</p>
14	ENG-HV-2002	<p>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.</p> <p>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.</p>	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
15	ENG-HV-2002	<p>5.16 OIL Note: Default Oil shall be Mineral oil only if not specified / asked for other oil.</p>	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.	Requirement is Mineral Oil
16	ENG-HV-2002	<p>4. GENERAL TECHNICAL REQUIREMENTS: 28. Metering CT for LV side</p> <p>5.12 METERING CURRENT TRANSFORMERS (This shall be decided during tender by user group.)</p>	Kindly confirm the requirement of Metering CT's	Metering CTs are not required
17	ENG-HV-2002	<p>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.</p> <p>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.</p>	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
18	ENG-HV-2002	<p>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.</p>	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.	C5 over C2 is accepted

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19	ENG-HV-2002	<p>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.</p> <p>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.</p>	Kindly confirm the requirement of cable box on HV side.	Bushing with Cable Box on LV Side Top Mounted Bushing on HV Side
20	ENG-EHV-1004	<p>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</p>	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)	Normal flux density (at rated voltageand frequency) – 1.6T
21	ENG-EHV-1004	<p>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.</p> <p>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.</p>	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
22	ENG-EHV-1004	<p>5.16 OIL Note: Default Oil shall be Mineral oil only if not specified / asked for other oil.</p>	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.	Mineral oil Type-II uninhibited complying to IS 335
23	ENG-EHV-1004	<p>4. GENERAL TECHNICAL REQUIREMENTS: 28. Metering CT for LV side</p> <p>5.12 METERING CURRENT TRANSFORMERS (This shall be decided during tender by user group.)</p>	Kindly confirm the requirement of Metering CT's.	Metering CTs are not required
24	ENG-EHV-1004	<p>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.</p>	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.	C5 over C2 is accepted
25	ENG-EHV-1004	<p>Clause 5.29.WTI I.WTI shall be Provided in one Winding of each phase.</p>	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.	Noted and accepted
26	ENG-EHV-1004	<p>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.</p>	We wish to bring to your kind notice that, we will submit the Type test reports of offered design before commencement of supplies, and similar or higher rating reports will be submitted at the time of tender, kindly accept.	Type tests are mandatorily required and should be submitted with the bid. Undertaking related to Type test reports will not be accepted. Bidders without a valid type test report as per TS will be rejected during tender evaluation.

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27	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.	This shall be as per TS
28	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.NOVOLPESTSK STEEL (NLMK) RUSSIA 4.VIZ STEEL LTD, RUSSIA Kindly Confirm.	Thyssenkrupp is accepted
29	Tender NIT no. TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024 Clause no. 4.0 Pre-Qualification Criteria/ a) Technical Pre-Qualification Requirements for Meter manufacturer (OEM) (Page no.7 of 401)	Bidder shall submit two nos. performance certificate of similar items during last 05 years from any reputed Discom / PSUs / Reputed Companies. In case the bidder has got previous association with any Tata Power Discom - TPCODL / TPNODL / TPWODL / TPSODL etc. for supply of similar product, performance feedback (w.r.t. both quality & past delivery) of the same will be solely considered irrespective of the performance certificate issued by bidder's other customers- Performance certificate and contact details of client's needs to be submitted.	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 & 33/0.433kV Transformers. So, it would be difficult to submit the credentials of 1000kVA 11/0.433kV & 33/0.433kV 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 item for 1000kVA DTRs & 33/0.433kV transformers. which enable us to qualify and being a competitive in this particular tender.	33/0.433 kV is also accepted
30	Tender NIT no. TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024 Clause no. 2. Experience / b) Financial Pre-Qualification Requirements (Page no.7 of 401)	Experience – The bidder must have supplied for same or higher rating (line item wise); 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. Order copies to be submitted in this regard.	please review and confirm your acceptance for the same.	33/0.433 kV is also accepted
31	Tender NIT no. TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024 Clause no. 4.0. Price Basis: (Page no. 8 of 401)	The 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. 1st August 2024 is the base date for PV calculation (IEEMA Circular – July 2024).	Many DISCOMs was floating the tenders with Prices as variable as per IEEMA formulae without ceiling on both Positive and Negative side. Even M/s. Tata Power Delhi Distribution Limited was inviting the tenders on this basis only for PV. Hence, we request you to please review and amend the clause as follows: The Prices shall remain variable as per IEEMA. PV Clause shall be applicable without ceiling on both positive side & negative side. 1st August 2024 is the base date for PV calculation (IEEMA Circular – July 2024).	As per Tender Condition

Sr. No.	Detailed Reference to NIT. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response
32	Tender NIT no. TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024 Clause no. 3. Type Test Report/ a) Technical Pre-Qualification Requirements for Meter manufacturer (OEM) (Page no.6 of 401)	The bidder should have valid BEE certification with successful Type Test Report (TTR). All the type test reports, required as per Technical Specifications validity shall as per latest CEA guidelines. Offered design / GTP must be exactly similar to the type tested design.	We request you to submit the Type Test reports pertaining to similar or higher rating and Voltage class Transformers for tender evaluation purpose only. However, we shall conduct and submit the Type test reports & BEE Star rating certificate for 1000kVA 11/0.433kV Distribution Transformer inline with the DISCOM requirement and offered design without affecting the delivery schedule at our cost. Please review and confirm your acceptance.	Type tests are mandatorily required and should be submitted with the bid. Undertaking related to Type test reports will not be accepted. Bidders without a valid type test report as per TS will be rejected during tender evaluation.
33	5.17 (Page No. 51)	Conservator It is mentioned that conservator to be provided 63 kVA and above capacity DTR	Conservator is essential for 100 kVA and above rating DTR. In 63 kVA DTR conservator is not required. Please amend the TS accordingly	We need conservator in 63 KVA. This shall be as per TS.
34	5.22 (Page No. 53)	Fittings S1 No. 3 Double diaphragm Explosion vent with oil window	Explosion vent for 25 kVA & 63 kVA DTR is not required. Please mention in TS clearly	This shall be as per TS
35	Page No. 73	List of calculatin to be provided	You are demanding 11 no. calculation sheetout of which many calculations are releated with our design. Designing part is a confidential matter for any manufacturing firms, hence, only those calculations will be submitted whose disclosure will not impact on confidentiality of design. The calculated data may vary with manufacturing data. These should have mentioned in tender documents to avoiding complication / misunderstanding in between Buyer and seller.	This shall be as per TS.
36	ENG - HV - 2001 Cl. No - 5.2 Winding Conection	Primary and secondary windings shall be constructed from high- conductivity (aluminium conductors), Double Paper Covered (DPC) aluminium conductor of grade 2(AI 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.	As per other specification of tender EC grade kraft paper is used for DPC covering & Epoxy dotted kraft paper is used for interlayer insulation. Kindly allow	Noted and accepted
37	ENG - HV - 2001 Cl. No - 5.23 Make of major components (Core)	M/S AK Steels, POSCO, Kawasaki/ JFE, Nippon Steel or equivalent on approval of bidder.	Kindly also allow below mentioned make 1. Baoshan Iron & Steel Company 2. Thyssenkrupp Electrical Steel India Pvt Ltd	Thyssenkupp is accepted
38	ENG - HV - 2001 Cl. No - 5.23 Make of major components (Bushing HV & LV)	GE, Rashtriya Electricals,Hindustan Chemicals, LAMCO	Kindly also allow below mentioned make 1. BPPL 2. BEPL 3. RP	Bidder shall submit type test of bushing as per IS 8603(HV) & IS 3347(LV) from CPRI/ERDA/Govt Labs Nabl accredited. Like NSIC/NTH/CIPET etc.
39	ENG - HV - 2002 Cl. No - 5.5 TRANSFORMER TANK AND TANK CONSTRUCTION	There must be sufficient space from the core to the top cover to take care of oil expansion.	As the transformer is provided with conservator tank, so there is no free spece between core and top cover for oil expansion. Kindly check.	Noted.

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40	Specification No: ENG-HV-2001	5.2 WINDING CONNECTIONS I. 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 are following IS which does not prescribed use of Epoxy diamond dotted Kraft paper to be used for DPC conductor. Please specify the guidelines which prescribes use of Epoxy diamond dotted Kraft paper to be used for DPC conductor as we have spoken to all our vendors who have also confirmed that it is not practical for Epoxy diamond dotted Kraft paper used in DPC of conductor.	Kraft paper to be used For DPC Inter layer insulation shall be done using EDD Kraft paper
41	ENG-HV-2001 2. List of Calculations to be submitted:	All the calculations shall be step by step showing the use of formulas and other practical considerations. Concise calculations in table or excel sheet shall not be accepted. Also, the reference (only standard sources as IS, IEC or any such standard is acceptable) of the formulas shall be mentioned.	We are agreed to comply to all your technical requirements like GTP drawings in line with type test reports but some calculation required by you post award of contract during GTP approval stage we agree to provide the same except step by step showing the use of formulas and other practical considerations which is our internal designing matter and secrecy is to be maintained by us and we cannot provide design related data and calculation to you and Public domain therefore we would request you to put forth all technical data and quires as per prescribed Standards and CEA guidelines.	Noted. But the calculations which are asked in the TS should be provided and should be self explanatory. Incase of any doubt, bidder shall explain the calculations in detail
42	Specification No: ENG-HV-2002 Specification Name: Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)	5.12 METERING CURRENT TRANSFORMERS (This shall be decided during tender by user group.)	Kindly confirm as it is cause cost implication	Metering CTs are not required
43	Specification No: ENG-HV-2002 Specification Name: Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)	BODY EARTHING: Two body earthing terminals pads boss arrangement (up to 500sq.mm) shall be provided on Transformer tank with M12 SS Bolt with 70 sq. mm lug. with SS plain washer and spring washer.	From our vast experience in manufacturing and supply of DTR's threading of SS Bolt are vulnerable to damage if used in active parts like earthing bolts over a long period. Considering the importance of Earthing and life of transformer we have suggest to use M12 Size GI Bolt with washer for all transformers instead of SS bolts with washer.	Noted and accepted
44	Specification No: ENG-HV-2002 Specification Name: Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)	5.28 FITTINGS 1000 kVA and above DT, epoxy bushing in HV and LV with tinned copper busbar shall be accepted for compact designs with top cover terminal & cable box.	From our vast experience in manufacturing and supply of DTR's we propose use of EPOXY bushing on LV side from all distribution transformers above 200 kVA as the full load current is about 266 A and we have a gurantee period of 5 years as such use of Porcilne bushing with gaskes and conicals washers are suceptable to damage due to the heat on full load condition and weather affect.	Type test of epoxy bushing busbar as per relevant standard from CPRI/ERDA/Govt Labs to be provided along with the bid. Proper supporting arrangement to support the busbar must be considered by bidder.
45	Specification No: ENG-HV-2002 Specification Name: Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)	5.32 MAKE OF MAJOR COMPONENTS & RAW MATERIALS	As per this clause 9 raw materials used in manufacturing of transformers like core , Insulation paper and Pressboards , Transformer Oil (Mineral oil) and Gaskets & Corks are to be purchase from your designated vendors . We suggests that you need to add more vendors. We propose the following vendors for the following items: 1. Core - Thysinkriupp India 2. Insulation paper and Pressboards - Umang Boards 3. Transformer Oil (Mineral oil) - Columbia 4. Gaskets & Corks - Grindbeck	Thysenkupp is accepted

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46	Specification No: ENG-HV-2002 Specification Name: Technical Specification for 11/0.4kV 250kVA to 2000kVA Distribution Transformer (Cu)	7.1 TYPE TESTS	You require type test only CPRI/ERDA labs both the labs are having rush due to which the type test process becomes very lengthy which affects our supplies. Hence we suggest to add M/s EERTO Vadodra and Vajai Electricals Hardwar both the labs are also been approved by BIS. Both the lab have provision for witnessing type test carried out by them .	This shall be as per TS
47	NIT No.: TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024		Tender dose not have any format for carrying out stage and final inspection to be carried out in our works by your authrozied inspectors we would request you to kindly incorpote a format for stage and final inspection which will also be reviwed by us before due date of submission of BID.	This shall be shared during factory evaluation stage.
48	GENERAL CONDITIONS OF CONTRACT FOR SUPPLY ORDERS 14.0 LIQUIDATED DAMAGES	For the purpose of calculating and applying LD, each delivery lot shall be considered separately. For delay of each week and part thereof, from the delivery schedule specified for the lot, 1% of the contract value corresponding to the undelivered quantity of the lot subject to a maximum of 10% of the total contract value of the subject lot. However, if full contractual quantity is not delivered within 130% of contract time for delivery, TPWODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPWODL as a proof of deduction/ recovery.	From our past experience of supplying transformers penalty @ 1 % week as per contractual terms has been deducted from our invoices for any delay beyond the contractual delivery date but most of the times there has been procedural delays like approval of inspection reports and issuance of MDCC which is not attributable to us but we suffered huge financial losses due to very high rate of penalty @ 1 % per week which should be reduced to 0.25 % per week and maximum number of days should be stipulated for in the tender and contract regarding maximum number of days of issuance of MDCC from the date of each successful lot inspected. Further despite repeated reminders and perusal the LD amount deducted at the time of payment has neither be reimbursed to us nor a GST invoice (Credit note) has been issued by TP which is not as per tender GCC. In case this GST Invoice is not issued from your end the Penalty should not be deducted from taxes (GST)	As per Tender Condition
49	NIT No.: TPCODL / CCG / 2024-25 / 1000000771 Dated. 02.08.2024	GENERAL CONDITIONS OF CONTRACT FOR SUPPLY ORDER	In the Generals conditions of tender does not specify issuance of GRN /SRV to BA's after successful supply of material at store as such BA's do not have any proof of successful supplies made by them . This is unlike other Dicsoms where it is mandatory for the concern store to issue of SRV/GRN to the suppliers. Similarly the tender does not provide any short of intimation regarding physical verification/testing at the concern store which is to be witness by BA's.	As per Tender Condition