

**CENTRALIZED CONTRACTS GROUP**

Response to Pre-Bid Queries  
NIT No.: TPCODL / CCG / 23-24 / 016

Tender Description: Rate Contract for Supply of Current Transformers & Potential Transformers of various ratings.  
The pre-bid queries as received against the referred tender enquiry and CCG/CEQG (TP-Odisha) responses on the same are placed below:  
Rate Contract for Supply of Current Transformers & Potential Transformers for TPCODL/TPNODL/TPWODL/TPSODL

Sl. No.	Tender Reference	Description as per Tender Doc.	Pre-Bid Query raised by Bidder	CCG/CEQG (TP-Odisha) response
1	Clause No. 1.7 (III), Qualification Criteria	The bidder should have supplied a similar or higher size and rated Current Transformer & Potential Transformer for a minimum of 25% of Current Transformer & Potential Transformer of same or higher sizes of the respective quantities of the tendered items in the immediate past five financial years	We have supply details of 33kV & 11kV Combiend Units, but not for Outdoor Type Single Phase CTs & PTs. But regularly supplng 33kV & 11kV CTs & PTs indoor type. Please consider	Qualification Criteria shall be as per Tender Specification
2	ENG-EHV-1015 / Clause No. 4, Table 12.4 of Guaranteed Technical Requirements	Resistance of Secondary winding as 6Ω	Please clarify whether the Resistance of secondary winding limit is for 400/1A tap.	Yes
3	ENG-EHV-1015 / Clause No. 4, Table 13 of Guaranteed Technical Requirements	Tan Delta Value shall be within 0.7% for new & shall remain less than 1% for at least 5 years	Kindly note that, the Tan Delta test is applicable for Instrument transformers with voltage class more than 72.5kV system voltage. In case if this test is applicable for these CT's, we propose to provide solid insulation for secondary windings. Please clarify.	Tan Delta is not applicable
4	ENG-EHV-1015 / Clause No. 5.1, General Construction of Current Transformer	It is mentioned that the Current Transformers shall be of dead tank design and the tank material shall be made of GI with 3mm Thickness.	Please clarify whether the material used shall be of GI material or the material shall be fabricated with 3mm MS sheet and Hot dip Galvanized.	Tank shall be as per TS. It shall be HDG Only
5	ENG-EHV-1014 / Clause No. 4, Table 5 of Guaranteed Technical Requirements	Rated one Minute Power Frequency dry withstand voltage	As per Clause 9.3.2.1 of IS 3156 (Part-I):1992, for earthed transformers, a test voltage of only 3kV is to be applied between Primary winding & earth. Please clarify.	One Min Power freq shall be 70KV for 33KV instrument and 28KV for 11KV insprument done on primary side.
6	ENG-EHV-1014 / Clause No. 4, Table 6 of Guaranteed Technical Requirements	Rated one Minute Power Frequency wet withstand voltage	As per Clause 9.3.2.1 of IS 3156 (Part-I):1992, for earthed transformers, a test voltage of only 3kV is to be applied between Primary winding & earth. Please clarify.	One Min Power freq shall be 70KV for 33KV instrument and 28KV for 11KV insprument done on primary side.
7	ENG-EHV-1014 / Clause No. 23, Table 6 of Guaranteed Technical Requirements	It is mentioned that tank material shall be made of GI with 3mm Thickness.	Please clarify whether the material used shall be of GI material or the material shall be fabricated with 3mm MS sheet and Hot dip Galvanized.	Tank shall be HDG
8	ENG-EHV-1015 / Clause No. 7.1 & 7.2, Routine Test & Acceptance Test	Partial Discharge Measurement	As per IS 11322:1985, for Partial discharge measurement, partial discharge test for liquid immersed insulation is applicable for system voltage of 72.5kV & above. Please clarify.	PD is not applicable
9	ENG-EHV-1014 / Clause No. 7.1 & 7.2, Routine Test & Acceptance Test	Partial Discharge Measurement	As per IS 11322:1985, for Partial discharge measurement, partial discharge test for liquid immersed insulation is applicable for system voltage of 72.5kV & above. Please clarify.	PD is not applicable
10	Clouse 4: -12 (12.2 )	Burden : 30/30VA	15/15 VA	Burden shall be as per Tender Specification
11	Clouse 4: -13	Tan delta Shall be within 0.7% for new and shall remain less than 1% for at least 5 years	Tan delta applicable for 33 KV above	Tan Delta Not Applicable
12	Clouse 5: -5.6	Steel surfaces exposed to the weather shall be given a priming coat of zinc chromate and two coats of final paint of shade RAL 7032/ Shade 631 as per 15-5.	Tank Shall be painted OR Hot dip galvanized	Tank shall be Hot Dip Galvanized
13	Clause 7 : 7.1- (e)	Partial discharge measurement	Partial discharge applicable for 66 KV above	Accepted
14	Clause 7 : 7.2- (v)	Partial discharge measurement	Partial discharge applicable for 66 KV above	Accepted
15		Junction Box	YES/NO	Junction Box shall be as per Tender Specification
16	Clouse 4: -13	Burden : 100/100/100VA	50/50/50 VA	Burden shall be as per Tender Specification
17	Clause 4, point 12	We understand that PTs are with three secondary winding	Generally two secondary winding are sufficient, one for metering and the other for protection purpose. We therefore request to review and reconfirm the no. of secondary winding.	This shall be as per Tender Specification
18	Clause 4, point 13	Rated burden = 100VA	Note that 100VA rated burden is excessively high and is technically not recommended/not appropriate for the following reasons:- a. Class 0.2 is a high precision accuracy class and the associated digital meters /relays at utility end are also of equivalent precision accuracy class. Such digital meters impose a very low burden of less than 1VA, and including to and fro lead	This shall be as per Tender Specification

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Sl. No.	Tender Reference	Description as per Tender Doc.	Pre-Bid Query raised by Bidder	CCG/CEQG (TP-Odisha) response
19	Clause 4, point 12 & 13	Metering class 0.2 at 100VA rated burden (DESIGN FEASIBILITY)	Design or metering class 0.2 winding is technically feasible at following maximum rated VA burdens- (a) for 11KV PTs, maximum VA burden of 20VA. (b) for 33KV PTs, maximum VA burden of 50VA ( however technically recommended rated VA is still lower).	This shall be as per Tender Specification
20		Accuracy test of secondary windings	Kindly confirm that ratio- phase error accuracy test of each secondary winding shall be done with only winding under test loaded ( 25% and 100% rated burden) and other secondary windings unloaded. Limits of errors shall be as per IS 3156 for the respective class of winding..	As per Standard.
21	Clause 4, point 22, 23 & clause 5.5	Tank - Fabrication with G7/3mm Finish painted	Tank fabrication is done with uncoated bare MS sheet and after fabrication the tank can be either painted or it can be hot dip galvanized. Hence, kindly rectify incorporating fabrication with "MS (3mm)".	Tank shall be Hot Dip Galvanized
22	Clause 7.1(iv) & 7.2 (iv)	Partial Discharge Measurement	This test is not applicable on outdoor oil filled PTs upto 33KV (as per IS:3156). Hence please eliminate this test.	Partial Discharge is not Applicable
23	Clause 8.0	Type Test Certificates are required from CPRI/ERDA	We request to accept type test report not only from CPRI & ERDA, but also from other NABL accredited testing Laboratories.	This shall be as per Tender Clause
24		Scope of supply	Please confirm that supply of <u>junction boxes</u> against a set of 3no. PTs is <u>not required</u> .	TS asks for PT with its Terminal Box
25	Clause 5.1	Capacitance test tap.	This is not required in outdoor oil filled PTs upto 33KV (as per IS:3156). Hence please eliminate this test.	Not Applicable
26				
27				
28	Tender Document Annx. I and Technical Specifications	33KV CT Ratio : 800-400-200/1-1-1A OR 400-200-100/1-1-1A	As per tender documents, Annx-I, Price schedule ratio of 33KV CT is 400-200-100/1-1-1A, whereas as per Technical Specification No. ENG - EHV- 1013 clause 4, point 5, and point 8, ratio of 33KV CT is 800-400-200/1-1-1A Kindly clarify the CT ratio required. In case if required CT ratio of 33KV CTs is 400-200-100/1-1-1A, Please clarify/confirm Vk, Rct and Ia values associated with CT ratio as which it is to be supplied with.	CT ratio shall be as per Technical Specification
29	Clause 4, 12.4 & 12.5	Rct & Ia Values	Kindly confirm that Rct<6Ω and Ia (max)=30mA at Vk/2 is applicable for ratio tap 400/1A.	At Highest Tap
30	Clause 4, 12.2 (Rated Burden)	Rated burden =30VA	Note that 30VA rated burden is excessively high and is technically not recommended/not appropriate for the following reasons:- a. Class 0.2 is a high precision accuracy class and the associated digital meters /relays at utility end are also of equivalent precision accuracy class. Such digital meters impose a very low burden of less than 1VA, and including to and fro lead	This shall be as per Tender Specification
31	Clause 12.6	ISF<5	Kindly confirm that ISF<5 shall be applicable on lowest CT ratio tap, as acceptable by other utilities.	At lowest Tap.
32	Clause 5.1, 5.6	Tank - Fabrication with G7/3mm Finish painted	Note that tank fabrication is not possible with GI sheet. Tank fabrication is done with uncoated bare MS sheet and after fabrication the tank can be either painted or it can be hot dip galvanized. Hence, kindly rectify incorporating fabrication with "MS (3mm)".	Tank Shall be Hot Dip Galvanized. Painting shall be done over it
33	Clause 5.1/5.2	Capacitance test tap / Tan Delta Test	This is not required for CTs upto 33KV range.	Not Required
34	Clause 7.1 ( e ) & 7.2 ( v ), (vii)	Partial Discharge Measurement / Tan Delta Test	This is not required for CTs upto 33KV range.	Not Required
35	Clause 8.0	Type Test Certificate CPRI / ERDA	We request to accept type test report not only from CPRI & ERDA, but also from other NABL accredited testing Laboratories.	Test to be done at CPRI/ERDA/Govt Labs

Note: This document shall be an integral part of the tender and bidder shall submit signed/stamped copy of this document along with technical bid, as a token of acceptance. The tender document stands modified to the extent stipulated herein above in this document. All other terms & conditions shall be strictly followed as per Bid documents.