

FORMAT B.1

Format for Technical Pre-Bid Queries

Tender No **TPSODL/OT/2022-23/049**

Package Name **Rate Contract for Supply of CT and PT at TPSODL**

Bidder :

Note : The said format to be used only for Technical Pre-Bid Query. Any Commercial Query has to be strictly in Format B2 Format for Commercial Pre-Bid Query and sent separately

Format to be used for query regarding Technical Pre-Qualification Requirement, Safety Pre-Qualification Requirement, Technical Set of Document

Pre-Bid Query has to be sent in editable Excel file format only

Pre-Bid Query has to be sent through e-mail in TPSODL E-Tender System

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Page No/ Clause No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.4 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.4	As per TS, for both 11kV & 33kV CTs, the first core is class 'PS' and maximum value of secondary winding resistance for this core i.e. Rct is required to be maximum 6Ω.	Kindly note that with the required core size, meeting the required Vk values as called in TS, tRct≤6Ω is not technically feasible / makes the design excessively bulky. We request to kindly check the suitability of following values of Rct (for class PS cores):- a. Rct≤16Ω for 11kV CT (800-400-200/1-1-1A) b. Rct≤12Ω for 33kV CT (600-300-150/1-1-1A)	Specification to be complied
2	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.1 & 12.2 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.1 & 12.2	For both 11kV & 33kV CTs, metering core accuracy class is 0.2S at rated burden 30VA.	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 equipment impose a very low burden of less than 2VA, and including to and fro lead drops the imposed burden will still be limited to 5VA. b. Note that accuracy of a metering class core is guaranteed from 25% to 100% of rated burden. Hence, at 30VA rated burden, results of ratio & phase errors within 0.2 class parameters shall be guaranteed within a range of 7.5VA to 30VA. Whereas the actual imposed burden is likely to be within 5VA. Hence, with rated 30VA burden, at the actual imposed burden, the errors within 0.2class are not guaranteed and hence the purpose of taking such a high precision accuracy will be failed.	Revised VA Requirement is given below - 33KV 600/300/150/1-1-1(0.2S 5P20 15VA) 11KV 800/400/200/1-1-1 (0.2S 5P20 15VA) BA shall ensure to comply the tender requirement with the above revised burden.
			c. In view of above points, the rated burden of such precision class (class 0.2) must be kept close to the actual burden that the secondary winding will see during its service. We there request to kindly review this point & consider metering cores of accuracy class 7.5VA/ 0.2S instead of 30VA/ 0.2S.	
3	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.6 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 3 of 16, Clause 4.0, Point No. 12.6	TS calls for ISF<5 for metering cores of 11kV & 33kV CTs.	Kindly confirm the ISF<5 shall be applicable for lowest ratio tap.	

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4	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 7 of 16 , Clause 7.2, Point No. 5 & 7 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 7 of 16 , Clause 7.2, Point No. 5 & 7 c) Specification of 11KV & 33KV Outdoor Type Potential Transformer Page No. 6 of 16, Clause 7.1	TS refers to Partial Discharge test, Tan Delta test & provision of capacitance test tap.	Kindly note that for 11kV & 33kV outdoor oil immersed CTs & PTs, the above tests are not applicable (as per IS:2705 & IS:3156 for CTs & PTs respectively). Kindly confirm.	Noted
5	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 4 of 16, Clause 5.1 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 4 of 16, Clause 5.1 c) Specification of 11KV & 33KV Outdoor Type Potential Transformer	TS refer to Tank material of GI 3mm thick.	Kindly note that tank fabrication with GI sheets is not feasible. Hence, tanks shall be manufactured using 3mm MS sheet. Kindly confirm your acceptance.	Specification to be complied
6	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 7 of 16, Clause 8.0 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 7 of 16, Clause 8.0 c) Specification of 11KV & 33KV Outdoor Type Potential Transformer	TS calls for Type test certificates from CPRI/ ERDA testing laboratories.	Kindly confirm acceptance of type test certificates from other NABL accredited testing laboratories as well.	Specification to be complied
7	a) Specification for 11KV Outdoor Current Transformer (800-400-200 / 1-1-1 A) Page No. 5 of 16, Clause 5.4 b) Specification for 33KV Outdoor Current Transformer (600-300-150 / 1-1-1 A) Page No. 5 of 16, Clause 5.4 c) Specification of 11kV and 33kV PTs Page 5/16	CTs & PTs are required with Junction Box.	Please clarify whether CTs & PTs are required with Junction Box, i.e. 1 Junction Box against a set of 3CTs or 3PTs, or prices are to be quoted without junction box.	FOR EACH 3 NOS CT'S:1 JUNCTION BOX FOR EACH 3 NOS PT'S:1 JUNCTION BOX
8	NIT page 15/25 Specification of 11KV & 33KV Outdoor Type Potential Transformer Page No. 3 of 16, Clause 4.0	11kV & 33kV PTs shall be single phase PTs	Kindly confirm that both 11kV & 33kV PTs required in this tender are Single Phase PTs (and not Three Phase PTs).	Specification to be complied
9	Specification of 11KV & 33KV Outdoor Type Potential Transformer Page No. 4 of 16, Clause 4.0, Point No. 12 & 13	Both 11kV & 33kV PTs are with 3 no. secondary windings, i.e. 3P/3P/0.2 class, 100VA.	Kindly note that generally two secondary windings are sufficient; i.e. 3P/0.2 class. Hence, kindly review and confirm whether PTs are required with 3 or 2 secondary windings.	Specification to be complied

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10	Specification of 11KV & 33KV Outdoor Type Potential Transformer Page No. 4 of 16, Clause 4.0, Point No. 12 & 13	As per TS, both 11kV & 33kV PTs are with metering winding of accuracy class 0.2 at a rated burden of 100VA.	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 equipment impose a very low burden of less than 2VA, and including to and fro lead drops the imposed burden will still be limited to 5VA.	<p style="text-align: center;">Revised VA Requirement is given below - 33KV 600/300/150/1-1-1(0.2S 5P20 15VA) 11KV 800/400/200/1-1-1 (0.2S 5P20 15VA) BA shall ensure to comply the tender requirement with the above revised burden.</p>
		b. Note that accuracy of a metering class winding is guaranteed from 25% to 100% of rated burden. Hence, at 100VA rated burden, results of ratio & phase errors within 0.2 class parameters shall be guaranteed within a range of 25VA to 100VA. Whereas the actual imposed burden is likely to be within 5VA. Hence, with rated 100VA burden, at the actual imposed burden, the errors within 0.2class are not guaranteed and hence the purpose of taking such a high precision accuracy will be failed.		
			c. In view of above points, the rated burden of such precision class (class 0.2) must be kept close to the actual burden that the secondary winding will see during its service. We there request to kindly review this point & consider metering winding of accuracy class <u>10VA/ 0.2</u> instead of 100VA/ 0.2.	
11	Specification of 11KV & 33KV Outdoor Type Potential Transformer Page No. 4 of 16, Clause 4.0, Point No. 12, 16 & 17	Ratio-Phase error accuracy test of metering / protection purpose secondary winding of PTs.	Kindly confirm that while conducting ratio-phase error accuracy test of metering purpose secondary winding of PTs, only metering winding shall be loaded (at 100% burden & at quarter burden), while other secondary windings shall be unloaded. Similarly, when protection type secondary winding of PT is being tested for ratio & phase error, it shall be loaded (100% & quarter burden), but other windings shall be unloaded. Limits of errors shall be as per IS 3156 for the respective class of winding.	Noted

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Package Name: **Rate Contract for Supply of CT and PT at TPSODL**

Bidder Name:

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Pre-Bid Query has to be sent in editable Excel file format only**Pre-Bid Query has to be sent through e-mail in TPSODL E-Tender System**

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1	2	3	4	5
1	NIT Page No. 13 , Clause 7.1	PBG of value equal to 5% of rate contract value	TS calls for submission of PBG of value equal to 5% of rate contract value. However, due to post covid impact, small scale industries are hit badly, there is slowdown in economy and financial crunch is observed. Hence, we request to review this clause & kindly consider PBG value as 3% of rate contract value. (Kindly refer Government of India, Ministry of Finance Department of Expenditure Procurement Policy Division; notification copy attached)	Tender terms and conditions shall prevail
2	Cl.No:1.3 e , P.No:5	Bid Submission Due Date - 02-07-2022 @ 17:00 Hrs	We would like to inform you that,we are interested to participate in your above NIT. But kindly note that to prepare an exact estimation as per your requirement and to make our best competitive offer we need few more times and accordingly, we are requested to extend the due date of the bid submission by at least 3-5 days time.	Kindly check website for updates.
3	Cl.7.1, P.NO:13	Delivery period shall be 45 days from date of receipt of release order/CAT-A issuance, whichever is later	Please check/confirm delivery period required within 120 days from PO/Date of Drawings approvals . Please review and amend the same.	Tender terms and conditions shall prevail
4	Cl.No:8, P.No:56	The bidder shall furnish the type test certificates 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 test shall have been conducted in CPRI / ERDA Laboratories during the period not exceeding 5 years from the date of opening the bid	We inform you that, Type tests mandatory for all ratios or higher ratio with a similar design will suffice ?. Please check/confirm the same.	Tender terms and conditions shall prevail
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