**FORMAT B.1**
**Format for Technical Pre-Bid Queries**

**Tender No** **TPSODL/OT/2022-23/128**

**Package Name** **Rate Contract for RING TYPE CT.**

**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 seperately
Format to be used for query regarding Technical Pre-Qualifcation Requirement, Safety Pre-Qualifcation Requirement, Technical Set of Documnt
**Pre-Bid Query has to be sent in editable Excel file fomat 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 / Clause No / Page No | Description as per Bid Document | Remarks - Query / Clarification | TPSODL Response |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Technical specn. Clause no. 4.7, page 3 of 8 | Rated Output (VA) Burden 10VA @ 0.8pf (lag) | **The burden of 10 VA is very high for the use with static energy meter, which has burden of less than 1 VA. Even if we consider lead burden of 1VA, the specified Burden should be Max. 5VA. Most of the utilities use CTs with burden varying from 1VA to 5VA ( Copy of Specification of various utilities attached).Also IS: 4201 (application guide of CT) very clearly states that the CT Burden should be near to the actual connected burden, otehrwise the accuracy may suffer (IS copy attached). Additionally the cost & size of the CT, particularly 100/5A will increase drastically without serving any additional purpose. ( In your technical specification of tender no. 069 The CTs are called with the burden of 5VA.) ( In Technical specification of TPCODL -Year 2022, the VA burden mentioned is 5 VA)** | The Burden is decided as per the requirement of Utilities, **TPSODL has the requirement for 10VA**. Considering the VA of CT+Cable+Measuring Inst. The burden calculation is more than 5VA. **(Specification to be complied)** |
| 2 | Technical specn. Clause no. 17 page 4 of 8 | The current Density is asked @ 1.6 Amp per Sq.mm (Max.). | **Kindly specify whether the current density is required for Primary Conductor for the purpose of Short Time current testing or whether it is required for secondary winding. For secondary winding of 1.6Amp per Sq.mm density, the area will be 3.125 mm Sq. which is very high. Area of 1.6mm Sq. will be more than adequte for carrying 120% of rated Secondary current continiously.** | Primary winding **Specification to be complied** |
| 3 | Technical specn. Clause no. 20 page 4 of 8 | Internal Diameter of 45mm for 100/5A C.T | **For 100/5A CT, the Alu. cable of 95mm Sq. area or Busbar of 20 x5 mm Alum. Is normally used and accordingly the inner dia of 25mm/30mm should be adequate. For 45mm ID the cost and size of the CT will be prohibitively high. ( In your technical specification of tender no. 069 The CTs are called with the busbar of 20 x 5 mm only.)** | **Accepted-** Internal Dia. only for 100/5A is 30mm (or as per specification) (*For others specification needs to be complied)* |
| 4 | Technical specn. Clause no. 26 page 5 of 8 | Min. degree of Protection IP-54 | **The CTs are to be placed inside the box, hence this clause will not be applicable.** | **Specification to be complied** |

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|---|---|---|---|---|
| 5 | Clause 5 of General construcion Page 5 of 8 | Secondary lead shall be terminated with tinned copper rose contact | Kindly let us know the length of the secondary leads which will have effect on design of the core. | Finalisation at the time of detailed Engineering (bidder's sample based on technical note for design calculation of core) |
| 6 | Clause 5 of General construcion Page 5 of 8 | Testing Range mentioned id 5 % to 120% OF Ratio Current | The Range should be 1% to 120% for Acc. Cl. 0.5S. | **Tech. specification to be complied.** However better offer is accepted. |
| 7 | Clause 8 Page 6 of 8 | TYPE TEST CERTIFICATE | You have called for Type Test Reports along with the offer. Please note that these specification are not used by most of the utilities of the country for metering purpose (Burden of 10VA and ID = 45mm in 100/5A, Ratio CT). The Type Test will take minimum 5 to 6 weeks in any of the given laboratories. We therefore, request you to kindly give us time extension for the submission of Type Test Report or extend the tender suitably. | **Refer Sl. No-3** for 100/5A Internal Dia. ***No change considered in Terms & Conditions for type test/tender from technical POV*** **(Specification to be complied)** |
| 8 | Clause no. 13 page no. 7 of 8 | TENDER SAMPLE | We require atleast 3 weeks time to design and manufacture the CTs after freezing Technical Specification, hence suitable time extension is required for the submission of sample or the tender should be extended suitably. | **Accepted** however sample needs to be received, before commencement of technical evaluation |
| 9 | Page no. 3 of 25 | TENDER NOTIFICATION - Due Date of Tender submission 21.03.2023 | Tender May be extended suitably after freezing of the final specification. | **N.A** (for technical discussion) |