

**FORMAT B.1****Format for Technical Pre-Bid Queries****Tender No**      **TPSODL/OT/2022-23/100****Package Name**    **Rate Contract for LA 9KV, 10KA Polymer Distribution class (DH)****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 Documents

**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 / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	Clause no. 3.9, page no. 11 - Type tests of applicable	The type tests specified in TPSODL specifications should have been carried out within five years prior to the date of opening of technical bids	As per CEA latest guidelines, validity of type test reports shall be 10 years	Noted subject to meeting the requirement of Technical Specifications
2	Clause no. 4 General requirements Sl. no. 10 of document no. ENG-HV-2004-01 page 3 of 14	Requirement mentioned as Station class - DH	Requirement falls under Distribution Class - DH, hence station class DH classification is not applicable	Ok noted
3	Clause no. 4 General requirements Sl. no. 11 of document no. ENG-HV-2004-01 page 3 of 14	Repetitive charge transfer withstand (Qrs) > 0.4C	As per IEC / IS standard for DH class it is specified as $\geq 0.4C$	Ok noted
4	Clause no. 4 General requirements Sl. no. 12 of document no. ENG-HV-2004-01 page 3 of 14	Repetitive charge transfer withstand (Qth) > 1.1C	As per IEC / IS standard for DH class it is specified as $\geq 1.1C$	Ok noted
5	Clause no. 5.1 Assembly Sl. no. 9 of document no. ENG-HV-2004-01 page 5 of 14	The arrester disconnector shall be suitable for screwing directly to L.A with terminal of M10.	The terminal can be of M12 also which will not affect the performance	Ok noted
6	Clause no. 5.3 Mounting Bracket Sl. no. 2 of document no. ENG-HV-2004-01 page 6 of 14	additionally one mounting bracket shall be provided	As Arrester is supplied with DMC mounting bracket which can be directly used to fix on Galvanized MS material, additional mounting bracket is not required	Specification to be complied
7	Clause no. 7.1 Type tests Sl. no. 12 of document no. ENG-HV-2004-01 page 7 of 14	Mechanical tests on Disconnector	As per IEC / IS standard, mechanical tests are applicable for disconnectors used with NGLA, hence the same is not applicable in this application	Specification to be complied
8	Clause no. 7.1 Type tests Sl. no. 13 of document no. ENG-HV-2004-01 page 7 of 14	Temperature cycling and seal pumping test on Disconnector	As per IEC / IS standard, these tests are applicable for disconnectors used in special application such as TLA, hence the same is not applicable in this application	Specification to be complied
9	Clause no. 7.1 Type tests Sl. no. 16 of document no. ENG-HV-2004-01 page 8 of 14	Seal leak rate test	As per IEC / IS standard, seal leak test is applicable for arresters having an enclosed gas volume and a separate sealing system. For Polymer LA s, there is no seals or enclosed gas volume / air gap (tube design), hence this test is not applicable.	Ok noted
10	Clause no. 7.1 Type tests Sl. no. 17 of document no. ENG-HV-2004-01 page 8 of 14	Radio interference voltage (RIV) test	As per IEC / IS standard, this test is applicable for arresters > 72.5kV system, hence not applicable	Ok noted as per IEC 60099-4 2014
11	Clause no. 7.1 Type tests Sl. no. 18 of document no. ENG-HV-2004-01 page 8 of 14	Test to verify the dielectric withstand of internal components	This is part of Operating duty test, hence not applicable	Ok noted as per IEC 60099-4 2014
12	Clause no. 7.1 Type tests Sl. no. 19 of document no. ENG-HV-2004-01 page 8 of 14	Test of internal grading components	As there are no internal grading components used in the assembly, this test is not applicable	Ok noted

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13	Clause no. 7.1 Type tests Sl. no. 20 of document no. ENG-HV-2004-01 page 8 of 14	Thermal cyclic test	As there are no internal grading components used in the assembly, this test is not applicable	Ok noted
14	Clause no. 7.2 Routine tests Sl. no. 5 of document no. ENG-HV-2004-01 page 8 of 14	For arrester for arrester units with an enclosed gas volume and separate sealing system the sealed housing leakage check shall be made on each unit by any sensitive method adopted by the manufacturer on the arrester and on surge monitor.	As there are no seals used / no enclosed gas volume for polymer LA, this test is not applicable	Ok noted
15	Clause no. 7.3 Acceptance tests Sl. no. 5 of document no. ENG-HV-2004-01 page 9 of 14	On disconnecter used in combination with NGLA, bending moment and tensile load tests shall be performed.	As application is not for NGLA, this test is not applicable	Specification to be complied
16	Clause no. 7.3 Acceptance tests Sl. no. 9 of document no. ENG-HV-2004-01 page 9 of 14	Thermal stability test	This is part of Operating duty test, hence not applicable	Ok noted
17	Clause no. 7.4 Special test as Acceptance test of document no. ENG-HV-2004-01 page 9 of 14	Special thermal stability test	This is part of Operating duty test, hence not applicable	Ok noted
18	Clause no. 8 Type test certificates of document no. ENG-HV-2004-01 page 9 of 14	Type tests should have been conducted during the period not exceeding 5 years from the date of opening the bid	As per CEA latest guidelines, validity of type test reports shall be 10 years	Noted subject to meeting the requirement of Technical Specifications
19	Clause no. 11 Guarantee of document no. ENG-HV-2004-01 page 10 of 14	The bidder shall further be responsible for ' free replacement' for another period of THREE years from the end of guarantee period for any 'latent defects' if noticed by the company.	As Lightning Arresters are protective equipment, hence latent defect clause is not applicable	Specification to be complied
20	Annexure - I, Sl.no. 1 no. ENG-HV-2004-01 page 14 of 14	Power Frequency reference Voltage test - Wet condition	As per IEC / IS standard, only dry test is applicable, hence wet test is not applicable	As per IEC 60099-4 2014 clause no. 8.2.8, Power Frequency voltage test for outdoor use shall be tested in wet condition.
21	Annexure - I, Sl.no. 3 no. ENG-HV-2004-01 page 14 of 14	Partial discharge test in Wet condition	As per IEC / IS standard, only dry test is applicable, hence wet test is not applicable	Specification to be complied
22	Annexure - I, Sl.no. 8 no. ENG-HV-2004-01 page 14 of 14	On disconnecter used in combination with NGLA, bending moment and tensile load tests shall be performed.	As application is not for NGLA, this test is not applicable	Specification to be complied
23	Annexure - I, Sl.no. 9 no. ENG-HV-2004-01 page 14 of 14	Thermal stability test	This is part of Operating duty test, hence not applicable	Ok noted
24	Clause no. 13.6 of General Conditions of Contract for supply orders page no. 18 of 48	Latent defect	As Lightning Arresters are protective equipment, hence latent defect clause is not applicable	Specification to be complied
25	Clause no. 13.7 of General Conditions of Contract for supply orders page no. 18 of 48	The Associate shall ensure availability of spares and necessary support for a period of atleast 10 years post completion of guarantee period of equipment supplied against the contract.	As Lightning Arresters are not serviceable equipment, this clause is not applicable	Specification to be complied

**FORMAT B.1****Format for Technical Pre-Bid Queries****Tender No** TPSODL/OT/2022-23/100**Package Name** Rate Contract for supply of LA 9kV 10kA Polymer distribution class (DH) 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

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1	2	3	4	5
1	Page 11 of 25 clause 3.9 & page 9 of 14 clause 8.0	Type test validity 5 years	As per CEA Guidelines type test validity is 10 years, please consider the same.	Noted subject to meeting the requirement of Technical Specifications
2	page 3 of 14 clause 4.0 sr.no. 10	Distribution class - Station class -DH	DH arresters comes under distribution class	Ok noted
3	page 4 of 14 clause 4 sr.no. 15.1, 15.2 & 15.3 & page 5 of 14 clause 5.1 sr.no. 1	Disconnecter connecting lead - Insulated flexible tinned plated copper braid with lugs	PVC insulated copper cable will be provided	Specification to be complied
4	page 4 of 14 clause 4 sr.no. 15.1, 15.2 & 15.3 & page 6 of 14 clause 5.3 sr.no. 1	Material of insulating bracket - UV resistance fire retardant DMC	Offered insulating bracket is UV resistance fire retardant ABS material which is better than DMC	Specification to be complied
5	page 4 of 14 clause 4 sr.no.26	Material of insulating terminal cap- Polyolefin	Terminal cap material silicone polymer in line with surge arresters housing material	Specification to be complied
6	page 7 of 14 clause 7.1 sr.no. 1	Power frequency reference voltage test (both in Dry and wet condition )	Dry power frequency not applicable for outdoor surge arresters as per IEC 60099-4 2014	Ok noted
7	Page 7 of 14 clause 7.1 sr.no. 10	operating withstand test for disconnector	Test report performed at OBLUM witnessed by TPDDL will be submitted for review	Will be decided during Tender Evaluation
8	Page 7 of 14 clause 7.1 sr.no. 12 & 13	Mechanical test , temperature cycling testes on disconnector	Not applicable for distribution disconnectors	Specification to be complied
9	Page 8 of 14 clause 7.1 sr.no. 16	Seal leak rate test	Not a type test for design B polymer surge Arresters as per IEC 10.8.13.1.	Ok noted
10	Page 8 of 14 clause 7.1 sr.no. 18 & 19	Test to verify the dielectric withstand of internal components	Performed as a part of operating duty test	Ok noted as per IEC 60099-4 2014
11		Test of internal grading components	Not applicable as there is no internal grading components	Ok noted
12	Page 8 of 14 clause 7.1 sr.no. 20	Thermal cyclic test	Not applicable for distribution disconnectors	Ok noted
13	Page 8 of 14 clause 7.3 sr.no. 5	On disconnector used in combination with NGLA, bending moment and tensile load tests shall be performed	Not applicable for distribution disconnectors	Specification to be complied
14	Page 8 of 14 clause 7.3 sr.no. 8	Peel off test (removal of housing )	Peel off test will be performed on one sample hence one surge arrester used for testing against order quantity	Samples to be selected as per IEC 60099-4 2014
15	Page 10 of 14 clause 13	Tender sample	kindly let us know whether tender sample is required or not	Not required
16	page 14 of 14 Annexure-I sr.no. 8	On disconnector used in combination with NGLA, bending moment and tensile load tests shall be performed	Not applicable for distribution disconnectors	Specification to be complied