

**FORMAT B.1**

Format for Technical Pre-Bid Queries

Tender No **TPSODL/OT/2023-24/54**Package Name **Rate Contract for supply of Lightning Arrester 9KV, 10KA Polymer Distribution class**

Bidder :

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	<b>CEA guideliness for type test for major equipment of power sector to be followed</b> (Refer Annex-II, Distribution system) <b>Specifications to be complied</b>
2	Clause no. 4 General requierments Sl. no. 5 of document no. ENG-HV-2004-02 page 3 of 14	Rated voltage mentioned as 12kV (for 9kV LA)	Arrester rating (Ur) will be 9kV	<b>Already specified Clause-4 Sl. No-8</b>
3	Clause no. 5.1 Assembly Sl. no. 9 of document no. ENG-HV-2004-02 page 5 of 14	The arrester disconnecter 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	Accepted if the design is type tested <b>within 5years.</b>
4	Clause no. 5.3 Mounting Bracket Sl. no. 2 of document no. ENG-HV-2004-02 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	Accepted if the design is type tested <b>within 5years.</b>
5	Clause no. 7.1 Type tests Sl. no. 1 of document no. ENG-HV-2004-02 page 7 of 14	Type test : Power Frequency reference Voltage test(Both in Dry and Wet condition)	As per IEC:60099-4 / IS:3070 (Part 3), this is routine and acceptance test and is not type test, hence not applicable as a type test.	<b>Refer table 7 of IS: 3070 (iii)- Lightning Arresters for Alternating Current Systems</b> Design shall be type tested within 5years
6	Clause no. 7.1 Type tests Sl. no. 2 of document no. ENG-HV-2004-02 page 7 of 14	Type test : Lightning impulse residual voltage on complete arrester	As per IEC:60099-4 / IS:3070 (Part 3), this is routine and acceptance test and is not type test, hence not applicable as a type test.	<b>Refer table 7 of IS: 3070 (iii)- Lightning Arresters for Alternating Current Systems</b> Design shall be type tested within 5years
7	Clause no. 7.3 Acceptance tests Sl. no. 3 of document no. ENG-HV-2004-02 page 8 of 14	Partial Discharge Test (Both in Dry and Wet condition)	As per IEC:60099-4 / IS:3070 (Part 3), this test is to be performed in dry condition and test to be conducted in wet condition is not specified, hence not applicable.	<b>Refer clause 6.1 of IS: 3070 (iii)- Lightning Arresters for Alternating Current Systems</b> Design shall be type tested within 5years
8	Clause no. 8 Type test certificates of document no. ENG-HV-2004-02 page 8 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	<b>CEA guideliness for type test for major equipment of power sector to be followed</b> (Refer Annex-II, Distribution system) <b>Specifications to be complied</b>
9	Clause no. 11 Guarantee of document no. ENG-HV-2004-02 page 9 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.	Lightning arresters are protective equipment and are susceptible to surge stress frequently. If the intensity of the surge is more than the arrester withstand capability, it will self sacrifice while protecting the equipment, hence latent defect cluase is not applicable.	Tender requirement should be complied
10	Annexure - I, Sl.no. 1 no. ENG-HV-2004-02 page 13 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	<b>Refer clause 6.2.8 of IS: 3070 (iii)- Lightning Arresters for Alternating Current Systems</b> Design shall be type tested within 5years
11	Annexure - I, Sl.no. 3 no. ENG-HV-2004-02 page 13 of 14	Partial discharge test in Wet condition	As per IEC / IS standard, only dry test is applicable, hence wet test is not applicable	Refer tender tecnical specification Annex-I, <b>result should withstand Should withstand as per Specification requirements.</b> (As per IEC60099 part4 cl.9.1)
12	Clause no. 13.6 of General Conditions of Contract for supply orders page no. 18 of 48	Latent defect	Lightning arresters are protective equipment and are susceptible to surge stress frequently. If the intensity of the surge is more than the arrester withstand capability, it will self-sacrifice while protecting the equipment, hence latent defect clause is not applicable.	Clause 13.6 for Latent defect is for manufacturing defect which is not identified during test. Tender requirement should be complied.

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13	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 at least 10 years post completion of guarantee period of equipment supplied against the contract.	As Lightning Arresters are not serviceable equipment, hence this clause is not applicable	Will be finalised during detailed engineering.