

Consolidated reply to pre-bid queries

Tender Reference No		TPCODL/CCG/23-24/100000542		
Tender Name		Rate Contract for Supply of Lightning Arresters of various ratings for 1 Year.		
Sr. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
1	2	3	4	5
1	Clause no. 5.1.2 page 13 of 36 of tender document	The type tests specified in technical specifications should have been carried out within five years	As per Central Electricity Authority (CEA) guidelines, validity of type test reports shall be 10 years	Noted. However, the design has to be 100 % identical as per the type test. Same has to be given in undertaking.
2	-	Technical specification of 9kV DH Class is not available in the tender document	To be provided	Refer ENG-HV-2015 Technical Specification for 11KV Lightning Arrester (10 KA) (12kV,10kA, Station class SL, (class-II) Metal Oxide Gap less Polymeric LA)
3	Clause no. 4 GENERAL TECHNICAL REQUIREMENTS: Specification no. ENG-HV-2015	GENERAL TECHNICAL REQUIREMENTS: sl. no. 30 Disconnecter (optional) a. Disconnector connecting lead - Insulated flexible tinned plated copper braid with lugs b. Size of Insulated Tinned copper braid - 25 sq.mm c. Length of Insulated Tinned copper braid - 300 mm	Disconnecter is mentioned as optional, clarify whether disconnector is required or not Clarify whether disconnector connecting lead is required or not since disconnector is optional, requirement of lead is also not required. Not applicable if disconnector is not required Not applicable if disconnector is not required	Disconnecter is mandatory & required.
4	Clause no. 5.1 Assembly Specification no. ENG-HV-2015	Assembly - a) The 12kV 10kA station class Lightning Arrester shall have L-shaped terminal clamp suitable for conductor size of 148 sqmm.	Normally arresters with bracket mounting are provided with studs on both ends of LA which will provide robust connection for line and ground leads. Also Insulating terminal cap will fit tightly on the LA with stud design on line side. Hence, L shaped terminal clamp is not applicable.	Shall be as per technical specification
5	Clause no. 5.4 DISCONNECTORS (OPTIONAL): Specification no. ENG-HV-2015	5.4 DISCONNECTORS (OPTIONAL): Disconnecter shall be suitable for screwing directly to LA with terminal of M10.	Clarify whether disconnector is required or not as it is mentioned as optional If disconnector is applicable, terminal can be M12 also which is more robust than M10	Disconnecter is mandatory & required. Shall be as per technical specification, however better can be accepted
6	Clause no. 6, Marking Specification no. ENG-HV-2015	A stainless steel rating plate, of at least 1 mm thickness, shall be fitted to each Lightning Arrester	Due to limitations in manufacturing, Name plate thickness will be 0.3mm	Shall be as per technical specification
7	Clause no. 7.1 ACCEPTANCE TESTS Specification no. ENG-HV-2015	Acceptance tests : All acceptance tests shall be witnessed by TPCODL/TPWODL/TPNODL/TPSODL / the purchaser's or his authorized representative. The above mentioned tests shall be made on 100 % of arrestors to be supplied.	All acceptance tests shall be performed on the cuberoot of the lot quantity which is as specified in IS / IEC standard. Hence 100% testing as acceptance test is not applicable	Acceptance test shall be made on the nearest lower whole number to the cube root of the number of arresters to be supplied as per IEC-60099-4.
8	Clause no. 7.3 TYPE TESTS Specification no. ENG-HV-2015	i) Hot dip Galvanizing test on exposed steel parts.	Since our design uses Stainless Steel hardware and since no MS parts are used, this test is not applicable	For Stainless Steel hardware said test is not applicable
		l) Seal leak rate test	As per IEC / IS standard, this test is applicable for arresters having an enclosed gas volume and a separate sealing system. Polymer arrester doesn't use any sealing / o ring (like in porcelain type) in the manufacturing and are directly moulded and doesn't has any gap between housing and blocks. Hence this test is not applicable.	Noted
		m) Tests on arrester disconnectors- Time current characteristics (optional)	If disconnector is not applicable, then this test is also not applicable	Disconnecter is mandatory & required.Hence mentioned test is applicable
9	Clause no. 7.4 SPECIAL THERMAL STABILITY TEST Specification no. ENG-HV-2015	Special thermal stability test	Since this is part of operating duty test and type test report (operating duty test) will be submitted, hence it is not applicable	Noted

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10	Clause no. 8 TYPE TEST CERTIFICATES: Specification no. ENG-HV-2015	8. TYPE TEST CERTIFICATES: Type tests should have been conducted during the period not exceeding 5 years from the date of opening the bid.	As per guidelines of Central Electricity Authority (CEA), validity of type test reports are for 10 years, hence the same is to be accepted	Noted. However, the design has to be 100 % identical as per the type test.
11	Clause no. 11, Guarantee Specification no. ENG-HV-2015	Guarantee : 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.	Not applicable as lightning arresters are protective equipment and are subjected for surge stresses frequently. If the intensity of the surge is more than the arrester withstand capability, it will self sacrifice while protecting the equipment.	Shall be as per technical specification
12	Clause no. 13, TENDER SAMPLE Specification no. ENG-HV-2015	One sample to be submitted during technical bid submission. This shall be Non-returnable basis.	Since we are regular suppliers to TPCODL and have supplied 12kV 10KA Lightning Arresters, sample submission is not applicable	In case of new BA to TATA power Odisha Discom, Sample Submission is applicable
13	Clause no. 4, General Technical Requirements Sl. no. 22 (Technical Particulars Class SL Class - II & SM Class - III) - Specification no. ENG-EHV-1021	Max. Cantilever Strength - 325 KgF	Normally 325 KgF strength is applicable for Porcelain type LAs due to its high strength ceramic housing. Since Polymer LA housing is of Rubber type, cantilever strength will be > 150 KgF	Shall be 325 kgF
14	Clause no. 5.4, Surge counter Specification no. ENG-EHV-1021	Surge Counter	Clarify whether surge counter is required or not for Class 2 LAs	Not Required for 30kV, 10kA Station Class, Class 2
15	Clause no. 5.4, Surge counter Specification no. ENG-EHV-1021 (If Surge Counter is applicable)	a) Cyclometric 5 digit, non-resetting type counter, dial type surge counter shall be provided for each lightning arrester	Our design has 6 digit counter which is better than 5 digits.	Shall be as per technical specification, however better can be accepted
		d) The connecting conductor from lightning arrester earth terminal to the discharge counter, Approved Make for this Cable is Polycab/KEI/KEC/Sterlite/Finolex/Havells.	As insulated cable / conductor is standard design with ISI marking, equivalent make will be supplied. Since ISI marking will be printed, the cable will be able to meet the requirements of the standard which is irrespective of the manufacturer.	Shall be as per technical specification
		d) Bimetallic strips must be provided along with Surge Counter for bimetallic connections.	There is no bi-metallic connection between arrester and surge counter, hence the same is not applicable	Shall be as per technical specification
16	Clause no. 6, Marking Specification no. ENG-EHV-1021	A stainless steel rating plate, of at least 1 mm thickness, shall be fitted to each Lightning Arrester	Due to limitations in manufacturing, Name plate thickness will be 0.3mm	Shall be as per technical specification
17	Clause no. 7.1, Acceptance tests Specification no. ENG-EHV-1021	g) Measurement of power-frequency voltage on the arrester at the reference current	This test is same as a) Measurement of reference voltage test. Hence not applicable	Noted
		h) Lightning impulse residual voltage on the arrester at nominal discharge current (wet power frequency voltage test)	Wet Power frequency is different from impulse test. As per IEC / IS standard, dry power frequency is applicable, hence wet power frequency test is not applicable	Lightning impulse residual voltage on the arrester at nominal discharge current and power frequency voltage test Shall be performed as per IEC 60099-4
18	Clause no. 7.2, Routine tests Specification no. ENG-EHV-1021	e) The power-frequency voltage	This test is same as a) Measurement of reference voltage test. Hence not applicable	Noted
19	Clause no. 8, Type test certificates Specification no. ENG-EHV-1021	Type tests should have been conducted during the period not exceeding 5 years from the date of opening the bid.	As per guidelines of Central Electricity Authority (CEA), validity of type test reports are for 10 years, hence the same is to be accepted	Noted. However, the design has to be 100 % identical as per the type test. Same has to be given in undertaking.
20	Clause no. 11, Guarantee Specification no. ENG-EHV-1021	Guarantee : 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.	Not applicable as lightning arresters are protective equipment and are subjected for surge stresses frequently. If the intensity of the surge is more than the arrester withstand capability, it will self sacrifice while protecting the equipment.	Shall be as per technical specification