

Pre-Bid Queries**Tender No.TPCODL/P&S/100000032/2020-21****Rate Contract for supply of 12kV 10kA Class 2 Station Class Polymeric Lightning Arrester**

Sl. No.	Detailed Reference to Tata Power Tender Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Bidder Query	TPCODL Response
1	2	3	4	5
1	2939355430/ CI 1.7 e/6	Bidder must have executed supply of 12kv 10kA Polymeric Lightning Arrester for min of 10000 nos of qty or more in single order or 3000 qty each in 3 order within 5 years	Since 12kV 10kA Rating is only in Orissa & West Bengal in India,we would like you to amend the rating to 9kV 10kA(For 11kV System) Polymeric Lightning Arrester which is the rating in all other Utilities throughout India. Other qty & period can remain the same	Our requirement is 12KV, 10KA
2	2939355430/CI 1.0 / point no 1/ 89	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading of 9 kV,10kA, DH class and SM class Lightning Arrester at site/stores complete with all accessories for efficient and trouble free-operation.	Kindly clarify if the rating of the lightning arrester is 9kV 10kA or 12kV 10kA ?	12kV ,10kA
3	2939355430/CI 4/ point no 15.1/91	Insulated flexible tinned plated copper braid with lugs	Kindly clarify whether it is insulated cable or only tinned copper Braid	Insulated flexible tinned copper braid

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4	2939355430/ CI 4/point no 22/91	Rating of individual ZnO blocks used for assembly	As the rating of the ZnO blocks vary from manufacturer to manufacturer which can be 3kV or 4.5kV you are requested to amend the same accordingly. Apparently for 12kV rating, 4.5kV ZnO Blocks does not match the multiplying factor. Ideally it should be 3kV ZnO blocks of 4 nos in the assembly	Total ZnO blocks of 4 nos in the assembly.Each ZNO block is 3KV.
5	2939355430/ CI 5.1 /point no 9/92	The arrester disconnecter shall be suitable for screwing directly to L.A with terminal of M10.	As the Cantilever load is more on the structure when mounting, M12 terminal will be of better mechanical property compared to M10	OK, M12 terminal is accepted
6	2939355430/ CI 5.3 /point no 2/93	The 12kV 10kA Station class Lightning Arrester shall be fixed over a mounting arrangement made of Hot dip galvanized MS material and additionally one mounting bracket shall be provided	Kindly clarify the details of additional one mounting bracket	The 12kV 10kA Station class Lightning Arrester shall be fixed over a mounting arrangement made of Hot dip galvanized MS material .No additional mounting bracket required
7	2939355430/ Annx I /point no 1 /101	Power Frequency reference Voltage test (Both in Dry and Wet condition)	Power Frequency reference Voltage test is conducted in Dry condition only as per IEC 60099-4 / IS 3070 Part 3	Standard rated short duration Power Frequency withstand Voltage (Dry/Wet) as per IS:2165
8	2939355430/ Annx I /point no 3 /101	Partial Discharge Test (Both in Dry and Wet condition)	Partial Discharge test is conducted in Dry condition only as per IEC 60099-4 / IS 3070 Part 3	Partial Discharge Test to be done (Both in Dry and Wet condition)

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9	Annexure-I Schedule of Items sr.no.1 page 14 of 87	12kV 10kA distribution class and station class -II polymer lightning arrester -20000nos.	kindly confirm quantity of 12kV 10kA distribution arrester and quantity of 12kV 10kA station class II polymeric lightning arrester. As the technical parameters are different for distribution and station class arresters, price will be provided separately.	12kV 10kA polymer Lighting arrester station Class-2
10	Document no. ENG-HV-2004, clause 4.0	Requirement for 12kV 10kA station class (SM) class-II	In the document title specification of 12kV 10kA distribution class and station class II polymeric lightning arrester is mentioned, where as technical parameters not given for distribution surge Arresters, kindly provide details for distribution class arresters	Class-2(SL), Station class
11	Document no. ENG-HV-2004, clause 4.0	Requirement for 12kV 10kA station class (SM) class-II	Please note that class-2 surge Arresters come under SL not SM , please find attached IEC extract for comparison between arrester discharge class as per IEC 60099-4 2008 & IEC 60099-4 2014, for your reference. Please confirm the discharge Class-II(SL) or Class-3 (SM)	Class-2(SL), Station class
12	Document no. ENG-HV-2004, clause 4.0 , sr.no. 10	Station class- SM	Please confirm whether requirement is for class-2 or class-3. Class-3 Surge Arresters comes under SM, whereas in the document title Station class-II is mentioned.	Class-2(SL), Station class
13	Document no. ENG-HV-2004, clause 4.0 , sr.no. 11	Repetitive charge transfer rating mentioned as >1.6C	please confirm requirement is for class-2 or class-3. 1.6C for class-3 Surge Arresters as per IEC 60099-4 2014	Repetitive charge transfer as >1.0C for Class-2 , Station class(SL) as per IEC 60099-4 2014
14	Document no. ENG-HV-2004, clause 4.0 , sr.no. 12	Thermal energy withstand rating is given as 7kJ/kV .	Please confirm the requirement is for class-2 or class-3. 7kJ/kV belongs to class-3. Whereas in the document title Station class-II is mentioned	Thermal energy withstand rating is given as 4kJ/kV .for Station Class-2

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15	Document no. ENG-HV-2004, clause 4.0 , sr.no. 22	Rating of individual ZnO blocks used for assembly -4.5kV	As per IEC 60099-4 2014 block rating 3 kV to 6kV, our standard block rating is 3kV , kindly include 3kV also	Total ZnO blocks of 4 nos in the assembly.Each ZNO block is 3KV.
16	Document no. ENG-HV-2004, clause 4.0 , sr.no. 26	Material of insulating terminal terminal clamp -Polyolefin	Is it bird cap? If yes, we will provide silicone polymer	Accepted
17	Document no. ENG-HV-2004,In clause 8.0 sr.no. 3,	type tests validity mentioned as 5 years.	As per CEA Guidelines type test validity is 10 years, please consider the same. (CEA guidelines are attached)	Accepted subject to there no design change. Same has to be given in undertaking
18	page no. 13 of 87 clause no. 7.3	30 days from RO	16 Weeks from date of drawing approval & Manufacturing clearance	30 days from RO
19	2	IS-3070:1993 (Part-3)	IS-3070:1993 (Part-3) is scrapped. IS 15086 (Part 4) : 2017 is applicable for gapless surge arrester.	Ok,IS 15086(part4):2017 is modified from IS - 3070 for gapless surge arrester
20	4	Requirements for 12kV 10kA Station Class (SM)-Class-II	SM class is equivalent to class 3. class 2 is denoted with SL class. Both requirement are different	Class-2 with SL
21	4 (10)	Station Class- SM	SM class is equivalent to class 3. class 2 is denoted with SL class. Kindly confirm exact requirement?	Class-2 with SL
22	4 (11)	Repetitive Charge transfer withstand (Coulombs) Qrs >1.6 C	for SM class : Qrs >= 1.6 C for SL class : Qrs >= 1.0 C Kindly confirm exact requirement?	OK

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23	4 (12)	Thermal Energy withstand rating - > 7 KJ/kV Ur (3 shots)	for SM class : Wth >= 7 kJ/kV for SL class : Wth >= 4 kJ/kV Kindly confirm exact requirement?	SL CLASS.Thermal Energy withstand rating-4 KJ/kV Ur (3 shots)
24	4 (16)	Material of Insulating Bracket UV resistant Fire retardant DMC	SMC material bracket will be offered.	Material of Insulating Bracket UV resistant Fire retardant DMC
25	4 (23)	TOV	TOV will be as per datasheet	OK
26	4 (26)	Material of Insulating terminal cap Polyolefin	Is bird cap required? Kindly confirm? Polyethylene material is used.	BIRD CAP is required.Polyolefin material & silicon polymer is accepted
27	5.0 (6)	Each unit of arrester assembly shall be hermetically sealed, leak tested and protected against ingress of moisture.	Not applicable for type b direct moulded construction	OK
28	5.3	MOUTING BRACKET	SMC material bracket will be offered.	OK
29	6	The Name plate/product shall have marking of "PO no. with date" & "Property of TPCODL"	very limited space available on arrester for marking. Hence, only TPCODL can be marked along with standard marking details	The Name plate/product shall have marking of "PO no. with date" & "Property of TPCODL"

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30	7.1 (1)	Power Frequency reference Voltage test (Both in Dry and Wet condition)	only wet testing is done because it is more critical.	Standard rated short duration Power Frequency withstand Voltage (Dry/Wet) as per IS:2165
31	7.1 (4)	Test to verify long term stability under continuous operating voltage	it is ageing test	This tests consists of a part of the operating duty test under Type Test
32	7.1 (16)	Seal leak rate test	Not applicable for type b direct moulded construction	Accepted
33	7.1 (17)	Radio interference voltage (RIV) test	Not applicable for arrester below 77kV	Accepted
34	7.1 (18)	Test to verify the dielectric withstand of internal components	Not required if conditioning part of operating duty test performed on dielectric prorated section as per 99-4.	Accepted
35	7.1 (19)	Test of internal grading components	Not applicable as we are not using grading component	Accepted
36	7.1 (20)	Thermal cyclic test	Not applicable as per IEC 60099-4	Accepted
37	7.2 (5)	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.	Not applicable for type b direct moulded construction	Accepted
38	7.2 (6)	Disconnecter Assembly- Proper assembly of each disconnecter has to be demonstrated by either measurement of resistance / capacitance or partial discharges.	Not applicable as per IEC 60099-4	Accepted

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39	7.3 (5)	On disconnecter used in combination with NGLA, bending moment and tensile load tests shall be performed.	Not applicable for substation application. It is applicable for TLA application	Accepted
40	7.3 (9)	Thermal stability test	It is part of operating duty test. It needs special sample to conduct this test. It can't be done on surge arrester, but on sample with 6kV block and below. Need not be repeated in acceptance test. Type test report shall be referred.	Accepted
41	7.4	SPECIAL THERMAL STABILITY TEST as per As per IEC 60099-4 Ed.3 clause 9.2.2 and 8.7 or IS:3070 part3 cl.7.3- TPCODL. Reserves right to perform special thermal stability test during acceptance if required. No failure from the randomly selected sample shall qualify for acceptance.	It is part of operating duty test. It needs special sample to conduct this test. It can't be done on surge arrester, but on sample with 6kV block and below. Need not be repeated in acceptance test. Type test report shall be referred.	Accepted
42	8.0 (2)	All the tests shall be conducted at CPRI / ERDA as per the relevant standards.	Test shall be accepted for national (CPRI/ ERDA) and international third party labs	Test shall be accepted for national (CPRI/ ERDA) /NABL and international third party labs

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43	8.0 (3)	Type tests should have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid.	<p>Surge arrester type test doesn't have time validity. As per IEC 60099-4, Once conducted, need not be repeated unless there is any design change.</p> <p>3.43 type tests design tests</p> <p>tests which are made upon the completion of the development of a new arrester design to establish representative performance and to demonstrate compliance with the relevant standard</p> <p>NOTE Once made, these tests need not be repeated unless the design is changed so as to modify its performance. In such a case, only the relevant tests need be repeated.</p>	Accepted up to 10years. Subject to there is no design change. Undertaking has to be provided

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44	Technical Specs	In Tender Notification Page No. 2 you have mentioned Distribution and Station Class- II but in General Technical Requirement SI.No. 11 you have mentioned Repetitive charge transfer withstand test as >1.6 C and Thermal Energy withstand test rating as ≥ 7 KJ/KV, this parameter applicable to Class-3 (SM)	In Tender Notification Page No. 2 you have mentioned Distribution and Station Class- II but in General Technical Requirement SI.No. 11 you have mentioned Repetitive charge transfer withstand test as >1.6 C and Thermal Energy withstand test rating as ≥ 7 KJ/KV, this parameter applicable to Class-3 (SM)	AS PER IEC 60099, Thermal energy withstand test rating as >4kJ/Kv for station class-2
45	Technical Specs	Please confirm whether you required Distribution or station class-2 (SL). Repetitive charge transfer withstand test is ≥ 4 with (KJ/KV) for SL (Class-2) Arresters as per IEC99-4.	Please confirm whether you required Distribution or station class-2 (SL). Repetitive charge transfer withstand test is ≥ 4 with (KJ/KV) for SL (Class-2) Arresters as per IEC99-4.	station class-2

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46	clause no. 3.1 EMD	<p>EMD” as applicable shall be submitted. The EMD shall be valid for 210 days from the due date of bid submission in the form of Bank Guarantee / Bank Draft / Bankers Pay Order (issued from a Scheduled Bank) online NEFT/ RTGS transfer favoring ‘TP Central Odisha Distribution Limited’ payable at Bhubaneswar. The EMD has to be strictly in the format as mentioned in General Condition of Contract, failing which it shall not be accepted by TPCODL and the bid as submitted shall be liable for rejection.</p>	<p>we would like to intimate that as per the policy update from the IEEMA, under Atmanirbhar Bharat, to provide relief to the Indian Electrical Industry, it is proposed to replace the Bid security /earnest Money Deposit (EMD) with bid security declaration for existing and future contracts (copy attached for your ready reference). We request you to kindly accept the same for subject tender.</p>	<p>Bidder shall comply as per clause no 3.1 mentioned in Tender Document.</p>