

TPNODL/OT/2021-22/207 Lightning Arrester

Sr. No.	Detailed Reference to Tata Power Tender Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response
1	2	3	4	5
1	Page 2 & Page 6 & Page 16	Rate contract for supply of 9kV 5kA Distribution class-II Lightning arrester in TPNODL	Class-II is belongs to station class Arresters. Nominal discharge current for class-II surge Arresters is 10kA. 9kV, class-II with 5kA nominal discharge current is not possible.	Yes. We need 10KA Class-II only
2	Page 12 clause 3.9 & Page 7 of 12 ENG-EHV-005	Type tests specified in TPNODL specifications should have been carried out within five years	As per CEA Guidelines type test validity is 10 years, please consider the same. (CEA guidelines are attached)	OK.Kindly send Type test reports for confirmation
3	page 4 of 12 Doc.No. ENG-EHV-005 sr.no. 21	Max. Cantilever strength - 325kgM	For polymer surge Arresters cantilever strength is 150kgf	Polymer is acceptable
4	Page 5 of 12 ENG-EHV-005	MO resistor shall be near to 100mm	For class-3 Zno block dia 62±2mm	we are asking CLASS II
5	Page 6 of 12 ENG-EHV-005	All routine/ acceptance tests shall be witnesses by the purchaser/ his authorised representative	All routine tests shall be performed at manufacturer end and reports submitted for review. Acceptance tests shall be performed on cube root of total quantity in the prsenece of purchaser/ his authorised representative	Accepted
6	Page 6 of 12 ENG-EHV-005	Acceptance tests- Measurement of power frequency reference voltage and lightning impulse voltage test (Insulation withstand test)	Measurement of power frequency reference voltage performed as acceptance test. Lightning impulse Insulation withstnad test comes under type test , report will be submitted for review.	Accepted.Please submit Lightning Impulse withstand test
7	Page 6 of 12 ENG-EHV-005	All acceptance tests shall be witnessed by the purchaser's representatrive. The above mentioned test shall be made on 100% of arrester to be supplied	Acceptance tests shall be performed on cube root of total quantity as per IEC 60099-4 2014	Accepted
8	Page 7 of 12 ENG-EHV-005 &	Moisture ingrfess test and water immersion test	It is a part of bending moment test	Comply as per TS
9	Page 7 of 12 ENG-EHV-005	Dry & Wet power frequency voltage test	For outdoor surge Arresters dry power frequency test is not applicable.	Acceptable
10	Page 7 of 12 ENG-EHV-005	Seal leak Rate test	Not appliacble for design B cage arresters as there is no enclosed gas volume and separate sealing arrangement	ok
11	Page 7 of 12 ENG-EHV-005	Pressure relief test	It is nothing but short circuit test	yes please do
	9kV 5kA Distribution class-II polymer lightning arrester			
1	Page 3 of 9 ENG-HV-036 clause 4.0 sr.no. 2	Arrester type - Metal Oxide distribution type	Class-2 Surge arresters comes under station class type. These arresters can be used for distribution application	ok
2	Page 3 of 9 ENG-HV-036 clause 4.0 sr.no. 10	Arrester class and distribution discharge - Discharge class-2	Class-2 Surge arresters comes under station class type.	ok
3	Page 4 of 9 ENG-HV-036 clause 5.1	MO resistor shall be near to 100mm	For class-2 Zno block dia 52±2mm	ok
4	Page 4 of 9 ENG-HV-036 clause 5.0	Self supporting , strcture mounting type	If surge arrester with disconnecter rquired self supporting is not possible. Arrester should be mounted with help of mounting bracket/ Insulating bracket	vendor has to supply base plate and along with mounting bracket
5	Pge 4 of 9 ENG-HV-036 clause 5.2	Earthing pads - Suitable earthing pads shall be provided in the lightning arrester and surge counter for earthing	Surge counter not offered.	Surge counter along with neseccary insulator support and earthing need to be provided
6	page 5 of 9 ENG-HV-036	All routine/ acceptance tests shall be witnesses by the purchaser/ his authorised representative	All routine tests shall be performed at manufacturer end and reports submitted for review. Acceptance tests shall be performed on cube root of total quantity in the prsenece of purchaser/ his authorised representative	Acceptable

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7	page 5 of 9 ENG-HV-036 clause 7.2	Acceptance tests- Measurement of power frequency reference voltage and lightning impulse voltage test (Insulation withstand test)	Measurement of power frequency reference voltage performed as acceptance test. Lightning impulse Insulation withstand test comes under type test , report will be submitted for review.	Accepted.Please submit Lightning Impulse withstand test
8	page 5 of 9 ENG-HV-036 clause 7.2	All acceptance tests shall be witnessed by the purchaser's representative. The above mentioned test shall be made on 100% of arrester to be supplied	Acceptance tests shall be performed on cube root of total quantity as per IEC 60099-4 2014	Accepted
9	page 5 of 9 ENG-HV-036 clause 7.2	Dry & Wet power frequency voltage test	For outdoor surge Arresters dry power frequency test is not applicable.	Acceptable
10	page 5 of 9 ENG-HV-036 clause 7.2	Seal leak Rate test	Not applicable for design B cage arresters as there is no enclosed gas volume and separate sealing arrangement	OK
11	page 5 of 9 ENG-HV-036 clause 7.2	Pressure relief test	It is nothing but short circuit test	yes please do
12	Page 6 of 9 ENG-EHV-005	Type tests specified in TPNODL specifications should have been carried out within five years	As per CEA Guidelines type test validity is 10 years, please consider the same. (CEA guidelines are attached)	OK.Kindly send Type test reports for confirmation
13	ENG-EHV-005 Page 79 of 142	IS-2633:1986 Reaffirmed 2006 - Method for testing uniformity of coating on zinc coated particles	Company follows Standard ISO 1461 for Galvanizing	ok
14	ENG-EHV-005 Page 79 of 142	MO resistor diameter shall be near to 100mm and bidder shall mention energy handling capability	60mm for Class3 (SM)	ok
15	ENG-EHV-005 Page 79 of 142	The connecting conductor from lightning arrester earth terminal to the discharge counter incoming terminal shall be insulated for a minimum of 4 kV and this insulated conductor shall be supplied along with the arrester by the bidder. The surge arrester to surge counter connection shall be done by means insulated multi strand copper cable of minimum size 35 sq.mm to withstand the fault currents during severe operating conditions.	35 sq. mm. 1.5 metre 3.3 kV Insulated copper Cable as per standard. (35 sq. mm. 1.5 metre 1.1kV Insulated copper Cable is sufficient)	ok

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16	ENG-EHV-005 Page 80 of 142	The Name plate shall be embossed with "PO no. with date" & "PROPERTY OF TPNODL". The following information shall be mentioned on the Name Plate <input type="checkbox"/> Continuous operating Voltage <input type="checkbox"/> Rated Voltage <input type="checkbox"/> Rated Frequency <input type="checkbox"/> Nominal Discharge Current <input type="checkbox"/> Pressure relief rated current in kA (rms) <input type="checkbox"/> Manufacturer's Name <input type="checkbox"/> Type and Identification of the complete arrester <input type="checkbox"/> Year/Month of Manufacture <input type="checkbox"/> Serial Number. <input type="checkbox"/> Warrantee/Guarantee clause	Due to limitation of Space on end fittings Name Plate details as per below can only accomodate- 3. The Name plate/product shall have marking of "PO no. with date"- we can incorporate few numerical digits of PO Instead of "Property of TPSODL" we will provide "TPSODL" 4. The following information shall be mentioned on the Name Plate: i. Continuous operating Voltage ii. Rated Voltage iii. Rated Frequency iv. Nominal Discharge Current v. Manufacturer's Name vi. Type and Identification of the complete arrester vii. Year of Manufacture viii. Serial Number iX. Warrantee/Guarante will be mentioned as "WP 12/18 M"	<p align="center">comply as per specs along with surge counter and bracket and basplate for fittings</p>
17	ENG-EHV-005 Page 80 of 142	Satisfactory absence from partial discharges and contact noise shall be checked on each unit by any sensitive method adopted by the manufacturer	These test on applicable as per IEC 60099-4	ok
18	ENG-EHV-005 Page 80 of 142	For arrester units with 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	Seal leak test not applicable for design B arresters as there is no separate sealing arrangement as per IEC 60099-2014	ok
19	ENG-EHV-005 Page 81 of 142	Galvanizing Test on exposed steel metal parts	Hot Dip Galvanizing in not part of Type Test as per IEC Standard 60099-4, we will be providing vendor test certificate during Inspection	ok
20	ENG-EHV-005 Page 81 of 142	Seal Leak Rate Test	Seal leak test not applicable for design B arresters as there is no separate sealing arrangement as per IEC 60099-2014	ok
21	ENG-EHV-005 Page 81 of 142	Pressure Relief Test	It is nothing but short circuit test.	ok
22	ENG-EHV-005 Page 81 of 142	The bidder shall furnish the type test certificates as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA as per the relevant standards. Type tests should have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the test reports, i.e. any test report not acceptable same shall be carried out without any cost implication to Purchase	As per latest guidelines issued by Central Electricity Authority, Type Tests conducted within 10years are valid for Lighting Arresters, hence the same needs to be accepted.	<p align="center">please submit report</p>
23	ENG-EHV-005 Page 82 of 142	Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit	Company will provide standard Company packing which ensure no damage in transit	<p align="center">As per TS</p>

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24	ENG-EHV-005 Page 88 of 142	IS-2633:1986 Reaffirmed 2006 - Method for testing uniformity of coating on zinc coated particles	Company follows Standard ISO 1461 for Galvanizing	ok
25	ENG-EHV-005 Page 90 of 142 Clause 5.1	MO resistor diameter shall be near to 100mm and bidder shall mention energy handling capability	less than 100mm	ok
26	ENG-EHV-005 Page 91 of 142 Clause 6.0	<p>The Name plate shall be embossed with "PO no. with date" & "PROPERTY OF TPNODL". The following information shall be mentioned on the Name Plate</p> <ul style="list-style-type: none"> <input type="checkbox"/> Continuous operating Voltage <input type="checkbox"/> Rated Voltage <input type="checkbox"/> Rated Frequency <input type="checkbox"/> Nominal Discharge Current <input type="checkbox"/> Pressure relief rated current in kA (rms) <input type="checkbox"/> Manufacturer's Name <input type="checkbox"/> Type and Identification of the complete arrester <input type="checkbox"/> Year/Month of Manufacture <input type="checkbox"/> Serial Number. <input type="checkbox"/> Warrantee/Guarantee clause 	<p>Due to limitation of Space on end fittings Name Plate details as per below can only accommodate-</p> <p>3. The Name plate/product shall have marking of "PO no. with date"- we can incorporate few numerical digits of PO</p> <p>Instead of "Property of TPSODL" we will provide "TPSODL"</p> <p>4. The following information shall be mentioned on the Name Plate:</p> <ul style="list-style-type: none"> i. Continuous operating Voltage ii. Rated Voltage iii. Rated Frequency iv. Nominal Discharge Current v. Manufacturer's Name vi. Type and Identification of the complete arrester vii. Year of Manufacture viii. Serial Number 	ok
27	ENG-EHV-005 Page 91 of 142 Clause 7.1	Satisfactory absence from partial discharges and contact noise shall be checked on each unit by any sensitive method adopted by the manufacturer	These test on applicable as per IEC 60099-4	ok
28	ENG-EHV-005 Page 91 of 142 Clause 7.1	For arrester units with 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	Seal leak test not applicable for design B arresters as there is no separate sealing arrangement as per IEC 60099-2014	ok
29	ENG-EHV-005 Page 91 of 142 Clause 7.2	For arrester units with 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	Seal leak test not applicable for design B arresters as there is no separate sealing arrangement as per IEC 60099-2014	ok
30	ENG-EHV-005 Page 91 of 142 Clause 7.3	Galvanizing Test on exposed steel metal parts	Hot Dip Galvanizing in not part of Type Test as per IEC Standard 60099-4, we will be providing vendor test certificate during Inspection	ok
31	ENG-EHV-005 Page 92 of 142	Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit	Company will provide standard Company packing which ensure no damage in transit	ok
32	ENG-EHV-005		Confirm the required Arrester Type for 11kV arrester	class II-station class
33	ENG-EHV-005		Instead of requirement of COV 8kV for rating Ur 9kV can will provide Arrester with COV 9.6kV for rating Ur 12kV	ok