Eorma	t for Pre-Bid Queries				
		TPCODL/P&S/23-24/ 1000000398			
Tender Name		Supply of LA			
Note:	Pre-Bid Query has to be sent in editable Exc	cel file fomat only			
	Detailed Reference to TPCODL Technical				
Sr. No.	Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response dtd. 26.07.2023	
1	2	3	4	5	
1	Annexure I sr.no. 2	Lightning arrester 33kV 30kV 10kA	Kindly comfrim the discharge class	SL Class-II	
2	EHV-HV- 2015 , sr.no. 11.a	Standard rested short duration power frequency frequency withstand voltage (Dry/Wet) as per IS 2165	As per IEC 60099-4 2014, Dry power frequency withstand test is not applicable for station class arrester as per IEC 60099-4 2014	shall be as per tender specifications	
3	EHV-HV- 2015 , sr.no. 13 a & b	Long duartion current peak current :75A virtual duration of peak T 1000 micro sec	As per IEC 60099-4 2014, long duartion current impulse chnaged to repetitve charge transfer rating Qrs .	shall be as per tender specifications	
4	EHV-HV- 2015 , sr.no. 29	Material of insulating base - UV resistant fire retardant DMC	Insualting bracket material : ABS	shall be as per tender specifications	
5	EHV-HV- 2015 , sr.no. 30 & clause 5.4	Disconnector (optional)	Kindly confirm the requirement for disconnetcor , disconnector lead	Disconnector is required & Bidder to quote with disconnector	
6	EHV-HV- 2015 , sr.no. 31 clause 5.1	Insualting terminal cap- Polyolefin	Silicone polymer insulating terminal cap will be provided	Shall be as per TS	
7	EHV- HV-205 , clause 5 & clase 5.5	This shall be self supporting type, structure mounting type	Kindly confirm whether requierement is for strcuture mounting or bracket type	Mounting bracket is required as per Tender specification	
8	EHV-HV-2015 clause 7.1	The above mentioned test shall be made 100% of arrester to be supplied	As per IEC 60099-4, sampling is cube root of total quantity.	Accepted	
	EHV-HV-2015 clause 7.3	Internal partial discharge test	Not a type test as per IEC 60099-4 2014	shall be as per tender specifications	
10		Seal leak rate test	Not applicable for polymer design B arresters as per IEC 60099-42014	shall be as per tender specifications	
11	EHV-HV-2015 clause 8	Type test should have been conducted the period not exceeding 5 years	As per CEA guidelines type test validity is 10 years.	Shall be 5 years as per latest CEA guidlines	
12	EHV-HV-2015 clause 13	One sample to be submitted	Kinldy confirm whether sample is required	Not Required	
	33kV 10kA				
13	ENG-HV-1021 sr.no. 11.b	Standard rested short duration power frequency frequency withstand voltage (Dry/Wet) as per IS 2165	As per IEC 60099-4 2014, Dry power frequency withstand test is not applicable for station class oytdoor arrester as per IEC 60099-4 2014	shall be as per tender specifications	
14	ENG-HV-1021 sr.no. 13a & b	Long duartion current peak current :400A virtual duration of peak T 2000 micro sec	As per IEC 60099-4 2014, long duartion current impulse chnaged to repetitve charge transfer rating Qrs . For SL surge arresters it is 1C	shall be as per tender specifications	
15	ENG-HV-1021 sr.no. 22	maxim cantilever strnegth - 325kgf	For polymer Surge arresters 150kgf.	shall be as per tender specifications	
16	ENG-HV-1021 sr.no. 29	Material of insulating base - UV resistant fire retardant DMC	Insualting base material iP: HDPE (High density polyethylene)	shall be as per tender specifications	
17	ENG-HV-1021 sr.no. 30	Insualting terminal cap- Polyolefin	Silicone polymer insulating terminal cap will be provided	shall be as per tender specifications	
	30kV 10kA SM				
18	ENG-EHV-1021 sr.no. 10	Standard rested short duration power frequency frequency withstand voltage (Dry/Wet) as per IS 2165	As per IEC 60099-4 2014, Dry power frequency withstand test is not applicable for station class oytdoor arrester as per IEC 60099-4 2014	shall be as per tender specifications	
19	ENG-EHV-1021 sr.no. 13 a & b	Long duartion current peak current : virtual duration of peak T 2400 micro sec	As per IEC 60099-4 2014, long duartion current impulse chnaged to repetitve charge transfer rating Qrs .	shall be as per tender specifications	
	ENG-EHV-1021 sr.no. 22	maxim cantilever strnegth - 325kgf	For polymer Surge arresters 150kgf.	shall be as per tender specifications	
21	ENG-EHV-1021 sr.no. 29	Material of insulating base - UV resistant fire retardant DMC	Insualting base material iP: HDPE (High density polyethylene)	shall be as per tender specifications	

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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 dtd. 26.07.2023
22	ENG-EHV-1021 sr.no. 30 clause 5.1	Insualting terminal cap- Polyolefin	Silicone polymer insulating terminal cap will be provided inline with polymer housing.	shall be as per tender specifications
23	ENG-EHV-1021 clause 5.4 sr.no. f	RTV silicone sealant to be used		shall be as per tender specifications
24	ENG-EHV-1021 clause 8	Type test should have been conducted the period not exceeding 5 years	As per CEA guidelines type test validity is 10 years.	Shall be 5 years as per latest CEA guidlines
	1.7 f) Qualification Criteria (page 7 of 85)	f) Bidder must have successfully executed the supply of Lightening Arrester within last 5 Year. Copy of completion certificates to be submitted in this regard.	Quantity is mentioned as sets (UOM). Clarify it is nos or sets	Kinldy read this as EA (Nos)
	3.9 Type tests (page 11 of 85)	The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids.	As per Central Electricity Authority (CEA) guidelines, validity of type test reports shall be 10 years	Shall be 5 years as per latest CEA guidlines
	Annexure I Schedule of Items (page 15 of 85)	Sl. no. 2: LIGHTINING ARRESTER 33 KV, 30 KV 10 KA.	Clarify requirement is Class 2 or Class 3	SL Class-II
	Cluase no. 4 GENERAL TECHNICAL REQUIREMENTS: Specification no. ENG-HV- 2015	GENERAL TECHNICAL REQUIREMENTS: sl. no. 30 Disconnector (optional)	Disconnector is mentioned as optional, clarify whether disconnector is required or not	Disconnector is required & Bidder to quote with disconnector
		a. Disconnector connecting lead - Insulated flexible tinned plated copper braid with lugs	Clarify whether disconnector connecting lead is required or not since disconnector is optional, requirement of lead is also not required.	
		b. Size of Insulated Tinned copper braid - 25 sq.mm	Not applicable if disconnector is not required	
		c. Length of Insulated Tinned copper braid - 300 mm	Not applicable if disconnector is not required	
	Cluase 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 Insluating 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 tender specifications
	Cluase no. 5.4 DISCONNECTORS (OPTIONAL): Specification no. ENG-HV-2015	5.4 DISCONNECTORS (OPTIONAL): Disconnector shall be suitable for screwing directly	Clarify whether disconnector is required or not as it is mentioned as optional If disconnector is applicable, terminal can be M12 also	Disconnector is required & Bidder to quote with disconnector
	Clause no. 6, Marking Specification no.	to LA with terminal of M10. A stainless steel rating plate, of at least 1 mm thickness,	which is more robust than M10 Due to limitations in manufacturing, Name plate	shall be as per tender specifications
	ENG-HV-2015	shall be fitted to each Lightning Arrester	thickness will be 0.3mm	
	Cluase 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	Accepted
		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	Accepted if SS hardware is used instead of HDG Hardware. Same should be mentioned in the Type Test Reports.

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31.110.	Clause No / Page No	Description as per blu Document	Remarks - Query / Clarification	TPCODE Response did. 20.07.2023
	Clause NO / Page NO	I) Seal leak rate test	As per IEC / IS standard, this test is applicable for	shall be as per tender specifications
		ij Jean leak rate test	arresters having an enclosed gas volume and a seperate	Shall be as per tender specifications
			sealing system. Polymer arrester doesn't use any sealing	
	Cluase no. 7.3 TYPE TESTS			
	Specification no. ENG-HV-2015		/ 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.	
		m) Tests on arrestor disconnectors- Time current	If disconnector is not applicable, then this test is also	Disconnector is required & Bidder to quote with disconnector
		characteristics (optional)	not applicable	bisconnector is required a bidder to quote with disconnector
		characteristics (optional)	посарысаме	
	Cluase no. 7.4 SPECIAL THERMAL	Special thermal stability test	Since this is part of operating duty test and type test	Noted
	STABILITY TEST	openia memia otazimty test	report (operating duty test) will be submitted, hence it is	
	Specification no. ENG-HV-2015		not applicable	
	Cluase no. 8 TYPE TEST CERTIFICATES:	8. TYPE TEST CERTIFICATES:	not applicable	Shall be 5 years as per latest CEA guidlines
	Specification no. ENG-HV-2015	Type tests should have been conducted during the period	As per guidelines of Cetral Electricity Authority (CEA),	Shan be by carb ab per ratebre car garannes
	5,000	not exceeding 5 years from the date of	validity of type test reports are for 10 years, hence the	
		opening the bid.	same is to be accepted	
	Clause no. 11, Guarantee	Guarantee :	Jame 13 to be accepted	Noted
	Specification no. ENG-HV-2015	The bidder shall further be responsible for ' free	Not applicable as lightning arresters are protective	Inoteu .
	Specification no. ENG-TIV-2013	replacement' for another period of THREE years	equipment and are subjected for surge streas	
		•	1	
		from the end of gurantee period for any 'latent defects' if	frequently. If the intensity of the surge is more than the	
		noticed by the company.	arrester withstand capability, it will self sacrifise while	
	Cl		protecting the equipment.	N. D
	Clause no. 13, TENDER SAMPLE	One sample to be submitted during technical bid	Since we are regular suppliers to TPCODL and have	Not Required
	Specification no. ENG-HV-2015	submission. This shall be Non-returnable basis.	supplied 12kV 10KA Lightning Arresters, sample	
			submission is not applicable	
	Clause no. 4, General Technical	Max. Cantilever Strength - 325 KgF	Normally 325 KgF strength is applicable for Porcelain	shall be as per tender specifications
	Requirements SI. no. 22 (Technical		type LAs due to its high strength ceramic housing. Since	
	Particulars Class SL Class - II & SM Class -		Polymer LA housing is of Rubber type, cantilever	
	III) - Specification no. ENG-EHV-1021		strength will be > 150 KgF	
	0			
	Clause no. 5.4, Surge counter Specification	Surge Counter	Clarify whether surge counter is required or not for Class	Required
	no. ENG-EHV-1021	-\ C	2 & Class 3 LAs Our design has 6 digit counter which is better than 5	A
		a) Cyclometric 5 digit, non-resetting type counter, dial type surge counter shall be provided for each lightning arrestor		Accepted
		surge counter shall be provided for each lightning arrestor	digits.	
		d) The connecting conductor from lightning creater conth	As insulated cable / conductor is standard design with	Annyound make shall be as you tonday specifications
	Clause no. 5.4, Surge counter Specification	d) The connecting conductor from lightning arrester earth terminal to the discharge counter,	As insulated cable / conductor is standard design with ISI marking, equivalent make will be supplied. Since ISI	Approved make shall be as per tender specifications
	no. ENG-EHV-1021	Approved Make for this Cable is	marking will be printed, the cable will be able to meet	
	(If Surge Counter is applicable)	7.7		
	(ii surge counter is applicable)	Polycab/KEI/KEC/Sterlite/Finolex/Havells.	the requirements of the standard which is irrespective of	
			the manufacturer.	
		d) Bimetallic strips must be provided along with Surge	There is no bi-metalic connection between arrester and	shall be as per tender specifications
		Counter for bimetallic connections.		sitali pe as per refluer specifications
		counter for billietallic conflections.	surge counter, hence the same is not applicable	
	Clause no. 6, Marking	A stainless steel rating plate, of at least 1 mm thickness,	Due to limitations in manufacturing, Name plate	shall be as per tender specifications
	Specification no. ENG-EHV-1021	shall be fitted to each Lightning Arrester	thickness will be 0.3mm	January De us per tenuer specifications
	opecinication no. Eng-Env-1021	g) Measurement of power-frequency voltage on the	This test is same as a) Measurement of reference voltage	shall he as ner tender specifications
		arrester at the reference current	test.	Situal se as per tender specifications
		arrester at the reference currellt	Hence not applicable	
	Clause no. 7.1, Acceptance tests	h) Lightning impulse residual voltage on the arrester at	Wet Power frequency is different from impulse test. As	shall be as per tender specifications
	Specification no. ENG-EHV-1021	nominal discharge current (wet power frequency voltage	per IEC / IS standard, dry power frequency is applicable,	Shall be as per tender specifications
		test)	hence wet power frequency test is not applicable	
		ecot)	inches wer power frequency test is flor applicable	
	l		l .	

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	Clause no. 7.2, Routine tests Specification no. ENG-EHV-1021	1, , , ,	This test is same as a) Measurement of reference voltage test. Hence not applicable	shall be as per tender specifications
	1	not exceeding 5 years from the date of opening the bid.	As per guidelines of Cetral Electricity Authority (CEA), validity of type test reports are for 10 years, hence the same is to be accepted	Shall be 5 years as per latest CEA guidlines
	Specification no. ENG-EHV-1021	replacement' for another period of THREE years from the end of gurantee period for any 'latent defects' if	Not applicable as lightning arresters are protective equipment and are subjected for surge streas frequently. If the intensity of the surge is more than the arrester withstand capability, it will self sacrifise while protecting the equipment.	Noted
	Checklist			Bidder to must submit the filled all Checklist for technical bid submission. (excel sheet attached)