



Response to Pre-Bid Queries

Tender Enquiry No. TPNODL/OT/2021-22/129 Dtd.18/12/2021

Tender Description: One Year Rate contract for supply of Pin and Disc Insulators Polymer 33KV

The pre-bid queries as received against the referred tender enquiry and TPNODL's responses on the same are placed below:

S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
01.	Doc. Title: SPECIFICATION FOR 33kV POLYMERIC PIN INSULATORS Doc. No: ENG-EHV-010 Page 3 of 11 4. GENERAL TECHNICAL REQUIREMENTS Sr. No 6. (b), PDF Page. No 25/120	Please confirm required Minimum failing load 10KN is Tensile load or Cantilever (Bending) load. We cannot achieve 10KN cantilever load on 24mm FRP.	FRP Rod dia should be 33.5mm
02.	Doc. Title: SPECIFICATION FOR 33kV POLYMERIC PIN INSULATORS Doc. No: ENG-EHV-010 Page 3 of 11 4. GENERAL TECHNICAL REQUIREMENTS Sr. No 6. (c), PDF Pg. No 25/120	If your required minimum failing load is Cantilever (Bending) load, then 24mm is not sustainable. FRP diameter with minimum 33.5mm is required to get bending (cantilever) load 10KN.	Accepted
03.	Doc. Title: SPECIFICATION FOR 33kV POLYMERIC DISC INSULATOR B&S TYPE 120 KN Doc. No: ENG-EHV-012 Page 04 of 12 Sr. No 6. (a), PDF Pg. No 37/120	120KN is not possible with 16mm FRP. Minimum 20mm or 24 mm FRP diameter is required to achieve 120KN.	20mm FRP Rod is required.
04.	Pin Polymer Insulator 33 KV ENG-EHV-010, CLAUSE NO. 17 d. length OF frp Rod is mentioned as 300 mm.	IT may vary from manufacturer to manufacturer and is not a parameter to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted.
05.	Pin Polymer Insulator 33 KV ENG-EHV-010, CLAUSE NO. 17 e. Diameter of Weather Sheds is mentioned as 110 mm.	IT may vary from manufacturer to manufacturer and is not a parameter to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted.



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06.	Pin Polymer Insulator 33 KV ENG-EHV-010, CLAUSE NO. 17 3. No of insulators in each box is mentioned as 20	If we will put 20 isolators of 33kv in a box the weight of the box will be very high and will create problem in transportation, loading and un-loading, therefore it should be reduced to minimum 9 pcs per box	Accepted
07.	Polymeric 33kv disc insulator 120kn ENG-EHV-012, CLAUSE NO. 7.1,.7.2,7.3, 7.4 & 7.5 All Type test on composite polymeric insulators(7.1), Type Tests on silicon rubber(7.2), Type tests on FRP Rods(7.3), Type tests on En d Fittings are mentioned wrongly and not mentioned as per requirements of standard IEC :61109 & IEC: 62217	Those type tests must be mentioned which are required as per IEC: 61109-2008-05 & IEC: 62217. A number of tests mentioned in clasue no. 7.1, 7.2, 7.3 & 7.4. All tests mentioned at clause no, 7.2 & 7.3 are basically those tests which are required to be conducted on silicon rubber and FRP Rods during the testing of these raw materials during in house testings. These tests must be removed from the technical specification and only those tests should be put which are required as per IEC:61109 or referred standard therein.	Not accepted
08.	Polymeric 33kv disc insulator 120kn ENG-EHV-012, CLAUSE NO. 17 6a. Diameter of FRP Rod is mentioned as 16 mm.	It is not possible to get 120 KN rating load in 16mm dia FRP Rod, therefore it should be minimum 20mm.	Accepted
09	Polymeric 33kv disc insulator 120kn	IT may vary from manufacturer to manufacturer and is not a parameters to be fixed in the GTP, therefore it	Not accepted



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	NG-EHV-012, CLAUSE NO. 17 6b. Diameter of Weather Sheds is mentioned as 110 mm.	should be removed from GTP.	
10	Polymeric 33kv disc insulator 120kn ENG-EHV-012, CLAUSE NO. 17 6c. Nos of Weather Sheds is mentioned as 8.	IT may vary from manufacturer to manufacturer and is not a parameters to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted
11	Polymeric 33kv disc insulator 120kn ENG-EHV-012, CLAUSE NO. 17 6h. length oF frp Rod is mentioned as 425 mm.	IT may vary from manufacturer to manufacturer and is not a parameters to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted
12	Polymeric 33kv disc insulator 120kn Misc Designation of ball & socket fittings is not mentioned in the Technical specification'	It is highly recommended and required that for 120KN load requirement the designation must be 20mm.	Accepted as per IS: 2486 (Part-II).
13	Polymeric 33kV ball & socket disc insulator 90 kn ENG-EHV-014, CLAUSE NO. 7.1,7.2,7.3, 7.4 & 7.5 All Type test on composite	Those type tests must be mentioned which are required as per IEC: 61109-2008-05 & IEC: 62217. A number of tests mentioned in clause no. 7.1, 7.2, 7.3 & 7.4. All tests mentioned at clause no, 7.2 & 7.3 are basically those tests which are required to be conducted on silicon	Not accepted



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	polymeric insulators(7.1), Type Tests on silicon rubber(7.2), Type tests on FRP Rods(7.3), Type tests on End Fittings are mentioned wrongly and not mentioned as per requirements of standard IEC :61109 & IEC: 62217	rubber and FRP Rods during the testing of these raw materials during in house testings. These tests must be removed from the technical specification and only those tests should be put which are required as per IEC:61109 or referred standard therein.	
14	Polymeric 33kV ball & socket disc insulator 90 kn ENG-EHV-014, CLAUSE NO. 17 6b. Diameter of Weather Sheds is mentioned as 110 mm.	IT may vary from manufacturer to manufacturer and is not a parameter to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted
15	Polymeric 33kV ball & socket disc insulator 90 kn ENG-EHV-014, CLAUSE NO. 17 6c. Nos of Weather Sheds is mentioned as 8.	IT may vary from manufacturer to manufacturer and is not a parameters to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted
16	Polymeric 33kV ball & socket disc insulator 70 kn ENG-EHV-013, CLAUSE NO. 7.1,.7.2,7.3, 7.4 & 7.5 All Type test on composite polymeric insulators(7.1), Type	Those type tests must be mentioned which are required as per IEC: 61109-2008-05 & IEC: 62217. A number of tests mentioned in clause no. 7.1, 7.2, 7.3 & 7.4. All tests mentioned at clause no, 7.2 & 7.3 are basically those tests which are required to be conducted on silicon rubber and FRP Rods during the testing of these raw	Not accepted



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	Tests on silicon rubber(7.2), Type tests on FRP Rods(7.3), Type tests on End Fittings are mentioned wrongly and not mentioned as per requirements of standard IEC :61109 & IEC: 62217	materials during in house testing's. These tests must be removed from the technical specification and only those tests should be put which are required as per IEC:61109 or referred standard therein.	
17	Polymeric 33kV ball & socket disc insulator 70 kn ENG-EHV-014, CLAUSE NO. 17 6b. Diameter of Weather Sheds is mentioned as 110 mm.	IT may vary from manufacturer to manufacturer and is not a parameter to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted
18	Polymeric 33kV ball & socket disc insulator 70 kn ENG-EHV-014, CLAUSE NO. 17 6c. Nos of Weather Sheds is mentioned as 8.	IT may vary from manufacturer to manufacturer and is not a parameter to be fixed in the GTP, therefore it should be removed from GTP.	Not accepted

Note: - This document shall form an integral part of tender and should be submitted along with the tender document.