

SL No.	Requirement	Compliance Yes/No.
1	Confirm that the tests on Bushings quoted are as per IS 2099.	
2	Confirm that the tests on Bushings quoted are as per IS & also confirm that 1) Tan Delta value shall be not more than 0.004 at ambient temperature. 2) The short time current shall be 40KA for 3 seconds. Testing shall be done as per both IS:2009 and IEC: 60137.	
3	Confirm that minimum creepage distance for condenser type Bushings shall be 25mm/KV or 31 mm /KV as per requirement.	
4	Confirm that di-electric creepage (BIL) of condenser bushing shall be in accordance with IEC:60137 latest amendment.	
5	Confirm that material, dimensions and surface finish of oil end terminal of solid stem for 52 and 72.5 kv bushing shall be in accordance with IS 12676.	
6	Confirm that IS 12676 shall apply to oil end terminal of 245 kv bushings in which corona shield is necessary.	
7	Confirm that dimensions tolerance shall have medium class tolerance given in IS 2102 (PART 1) : 1989.	
8	Confirm that surface finish shall be nickel plated (electro plated)	
9	Confirm that material of Solid Stem Terminal is of Copper/Copper Alloy.	
10	Confirm that all the edges of Solid Stem are De-burred.	
11	Confirm that mounting dimensions of the bushings flange will be as per IS 12676 and other dimensions as per stated nomenclatures of IS12676 are given by us in table attached. Flange thickness shall be minimum 20mm thick.	
12	Confirm that all dimensions are in millimeters.	
13	Confirm that no positive tolerance shall apply where maximum is specified and no negative tolerance where minimum dimensions is specified.	
14	Confirm that details of lead joint provided on draw lead and draw rod of bushings are as per IS 12676.	

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15	Confirm that details of oil end terminal of 52/72.5 kv bushings are as per IS 12676. Fig 3.	
16	Confirm that details of oil end terminal and shield fixing arrangement for 245 kv 2000 A stem type of bushing shall be as per IS 12676. Fig 4.	
17	Confirm that oil level gauge of condensor bushing of 245 KV or lower rating shall be provided with graduated oil sight windows and shall be so designed and dimensioned that oil level shall be clearly visible with naked eye from ground level.	
18	Confirm that bushing shall have provision for fixing of arcing horns.	
19	Confirm that type tests certificate (not older than 3 years) has been submitted as per IEC 60137 (latest amendment) along with offer and the same shall also be submitted later on as per our requirement. If required, bushing shall be type tested for specific customer.	
20	Confirm that in case of draw lead type bushing, the complete lead joint with air end portion of the draw lead shall be supplied by the bushing manufacturer.	
21	Confirm that in case of draw rod type bushing complete rod up to the joint with free end of the rod forming one portion of the joint along with nuts and bolts shall be supplied by the bushing manufacturer.	
22	Confirm that marking on the condensor bushing shall be in accordance with clause no. 10.1 of IS 2099 : 1986.	
23	Confirm that wooden case packing of bushings shall be robust and suitable to stop ingress of moisture and shocks during transport.	

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Tender Qualifying Requirement			
SL No.	Requirements	Evaluation Criteria	Compliance Yes/No.
1	Should have type tested at least one OIP Condenser Bushing in the KV Class for which quoted. Type Test Report for the highest ampereage rating for the given KV class to be submitted.	Mandatory	
2	Should have been manufacturing and supplied Bushings (of the KV Class for which quoted) for period of at least 36 Months prior to date of issue of Enquiry. Also Bushings (of the KV Class for which quoted) should have been in service for a period of at least 24 months from date of issue of enquiry. Purchase order copies in support of Proof of supply and Customer's Certificate mentioning service period is required.	Mandatory	

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