

	Process Specifications for LT Condenser		Drg.No	BD27150213405
			Date	31-08-2017
			Product	CP
1.0	APPLICATION: LT condenser for High Voltage apparatus			
2.0	SPECIFICATIONS:			
2.1	Configuration: Central Pipe: Length: 5000(±100) mm, ID: 100mm OD: 110mm Dia of Taping insulation over central pipe: up to 350mm approx. (laterally) : up to 3500mm approx.(longitudinally)			
2.2	Material: Insulation paper – (0.25 to 0.5) mmX20mm wide Aluminum Foil-- 0.25mmX25mm wide Semiconducting Tape—0.25mmX20mm wide Crepe Paper--0.25mmX40mm wide			
2.3	Exposure to high current arcing should not damage the material or impair the dielectric strength of the material.			
2.4	The taping of LT condenser should be uniformly distributed, free from occlusion and air pockets suitable for High Voltage Applications.			
2.5	Tan δ terminals should be provided.			
2.6	Drawing (Dwg.No:BD27150213405) is attached in separate sheet.			
2.7	The LT condenser shall be impregnated with suitable resin hardener mix to achieve good insulation properties. Suitable filler should be added to ensure mechanical strength.			
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2.8	The LT condenser should be cured properly and supplied to BHEL R&D			
2.9	This filler shall improve surface hardness, stiffness, and to reduce the starting coefficient of friction and steady-state wear. Its effect on electrical and chemical properties must be negligible.			
2.10	Sample Model for evaluation: <u>Small scale model (two or three layers)</u> for evaluation shall be provided at the beginning for evaluation of properties and quality of the material used.			
2.11	Test Reports: The test reports shall be furnished for the following: 1. Dimensional report 2. Report for evaluation of following properties ▪ Tan δ and PD ▪ Breakdown level of insulation material ▪ Insulation resistance value should be greater than 100 MΩ/kV ▪ Capacitance			
2.12	Precautions: Material must be free from defects, cavities, pin holes and the same shall be ensured by the supplier. Uniform composition of the material shall be ensured. The finished primary condenser shall not have any ovality, bend and the outer surface should be free from dents/visible surface defects. The component shall be free from dirt, grease and moisture.			
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2.13	Qualifying Criteria: The supplier shall be of national / International repute with proven record and should have supplied similar material for CT applications. The supplier must submit along with the quotation a few references to whom the supplier has supplied a similar material.			
2.14	Guarantee: Against faulty material and workman ship.			
2.15	Packing: Final Product should be wrapped in polyethylene and packed in separate high density, dust free card board boxes. It should be supplied in shock proof, unbreakable containers.			
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