

## Consolidated Response to Technical Pre-Bid Queries - 2

## Tender No. TPSODL/OT/2023-24/051

Rate Contract for Engineering, Supply, Erection & Commissioning of 1.1 MVA Power supply to 300 bedded District Head Quarter Hospital (DHH), Koraput at Jeypore on 33 KV on "Turnkey Contract Basis".

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	<p>Document no - ENG-EHV-1004            Clause No - 5.9            Page No - 21/44</p>	<p><b>5.9 BUSHINGS AND TERMINAL CONNECTORS</b>  <b>A. HT Bushings (36 kV/250 A):</b>  <b>I.</b> The bushings shall be outdoor type, external part shall be made of porcelain material. Rods, nuts and flat washer (Tightening Nut along with Check Nut) shall be made of tinned brass material.  <b>II.</b> IS to be followed: IS 8603(Part- I) for porcelain, IS 3347 part3 section 2 for metal part and Complete bushing shall comply IS 2099.</p> <p><b>Option 1: Outdoor Bushing on Top with Bird Guard</b></p> <p><b>III.</b> The HV bushings shall have Hot Dipped Galvanized or Alu-zinc coated or SS material arcing horns with 8mm diameter. The thickness of coating shall be 86 microns (minimum at any point).  <b>IV.</b> The HV bushing shall be fitted with bird guard on the bushing connector.  <b>V.</b> Complete Tinned Brass jointless connectors shall be provided on HV bushing rods suitable for bare dog conductor connections. The connector should have large contact area. Hardware shall be Hot Dipped Galvanized or Aluzinc coated or SS material</p> <p><b>Option 2: Side bushing with Cable box</b></p> <p><b>VI.</b> Transformer shall be with HT cable box on sidewall of tank having porcelain bushing as specified above.  <b>VII.</b> In some situation Plinth mounted transformer may require outdoor bushing arrangement. This shall be decided during tender by user group.</p>	<p>Please confirm the Which one to follow option-1 or option-2</p>	<p>Option-1</p>