

## **TECHNICAL SPECIFICATION OF CABLE GLANDS**

### **1.0 SCOPE**

This technical specification covers the requirements of design, manufacture, testing at works, packing and dispatch of Cable Glands. No deviation from the requirements specified in various clauses of this specification shall be allowed.

### **2.1 TYPE OF CABLE GLANDS & CABLE DATA**

~~2.1.1. NICKEL PLATED CABLE GLANDS (25mm projected) -- Type CGP for following type of Cables~~

~~2.1.2. TIN PLATED CABLE GLANDS -- Type CGT for following type of Cables~~

~~2.1.3. NICKEL PLATED CABLE GLANDS -- Type CGN for following type of Cables~~

~~2.1.4. NICKEL CHROMIUM PLATED CABLE GLANDS -- Type CGNC for following type of Cables~~

S.No	Type of cable	Qty (No.)
1	2C x 2.5 sq mm PVC/ Cu.	80
2	5C x 2.5 sq mm PVC/ Cu.	260
3	7C x 2.5 sq mm PVC/ Cu.	130
4	10C x 2.5 sq mm PVC/ Cu.	300
5	14C x 2.5 sq mm PVC/ Cu.	330
6	19C x 2.5 sq mm PVC/ Cu.	170
7	5 C x 4 sq mm XLPE/ Al	180
8	2 C x 6 sq mm XLPE/ Al	80
9	2 C x 10 sq mm XLPE/ Al	50
10	4 C x 6 sq mm XLPE/ Al	100
11	4 C x 10 sq mm XLPE/ Al	80
12	4 C x 16 sq mm XLPE/ Al	50
13	3.5 C x 35 sq mm XLPE/ Al	20
14	3.5 C x 50 sq mm XLPE/ Al	40
15	3.5C x 240 sq mm XLPE/ Al.	4

The actual cable data as guaranteed by the cable supplier will be furnished separately. However, for exact measurements, supplier should contact site for cable samples. The final supply shall be made based on actual cables supplied at site.

## **2.2 SPECIFIC TECHNICAL REQUIREMENT**

**2.2.1 Type CGN, CGT & CGNC** -- Double compression, Heavy Duty. Nickel/Tin/ Nickel-Chromium plated (coating thickness not less than 10 microns) brass cable glands shall be provided by the vendor for all power and control cables to provide dust and weather proof terminations. The cable glands shall be tested as per BS: 6121. They shall comprise of heavy duty, brass casting, machine finished and Nickel/Tin/ Nickel-Chromium plated, to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The glands shall be dust proof, screw on type, shrouded complete with necessary armour clamp and tapered washers etc.

**2.2.2 Type CGP** -- Double compression, Heavy Duty, Nickel plated (coating thickness not less than 10 microns) brass cable glands shall be provided by the vendor for all power and control cables to provide dust and weather proof terminations. The cable glands shall be tested as per BS: 6121. They shall comprise of heavy duty, brass casting, machine finished and Nickel-plated, to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The gland shall project at least 25mm above gland plate to prevent entry of moisture in cable crutch. The Nickel-plated glands shall be dust proof, screw on type, shrouded complete with necessary armour clamp and tapered washers etc. The gland shall have provision for securing armour of the cable separately and shall be provided with earthing tag. Cable glands shall be of QIEP, Sunil & Co, Comet, Arup make or Powergrid approved vendor.

## **2.3 TEST**

All valid test reports as per relevant standard shall be furnished including Proof Torque Test, Tensile Test, Seal Test and Electrical Continuity Test as per BS 6121. Cable glands shall also be tested for dust proof and weather-proof termination. Bidders shall submit valid reports of type tests carried out within five years of bid opening. These reports should have been conducted on identical / similar equipment to those offered. In case less than five years old type test reports OR valid type tests are not furnished, the tests shall be conducted free of charge. No separate type test charges shall be paid.