P G CLAMP

1. SCOPE

This specification covers Design, manufacture, testing at works and supply of Aluminum Alloy Parallel Groove Clamps(P G Clamps) having not less than the current capacity of the conductor for which it is used.

2.0 Technical Details :

Al. Alloy parallel groove clamps shall apply in all respects with the Indian Standard or any other authorized standard.

Aluminum Alloy used in manufacture shall conformed to IS-617/1959 & IS-1307 of 1961. Nuts and bolts used will conformed to IS-1363 of 1967 and its latest amendments.

The clamps shall be smooth and free from cavity. Blow holes and such other defects which would cause unsatisfactory service. These shall have finish avoiding sharp edges curvatures, ridges & damage the conductors in service.

All parts of the clamp shall either be internally resistant to atmospheric corrosion or be suitably protected during storage and service. All ferrous metal parts shall be hot deep galvanized as per IS-2633/ 196. The threads of nuts and bolts shall be cut after galvanizing and shall be well oiled or greased.

The current rating of the clamps shall not be less than the current capacity of the conductor for which it is used. The rated short time current shall be 30 KA(rms). The frequency of the power supply is 50 Hz.

The conductivity of PG clamps shall be above that of power conductor. The tensile strength of the clamp shall be as per requirement of IS:5561-

1970. Clamp shall be capable of safely withstanding stress due to short circuit effect atmospheric condition or vibration both on conductor and clamps.

The clamps shall be indelibly marked with rated current or any identifying marked to enable full particulars of the clamps.

The material shall be inspected as per Test plan made by QA&I Dept. POWERGRID before dispatch.