

PH0014 Supply of Generator Step-Up Transformer

1. Package Description

1.1 Scope of Work Summary

This contract package includes design, fabrication, shop testing, packaging, delivery and warranty of four (4) 175/230 MVA ONAN/ONAF generator step-up (GSU) transformers complete with 315 kV lightning arresters and accessories and one (1) spare generator step-up (GSU) transformer.

1.2 Work Included

- Five (5) three-phase, 315/15 kV, 60 Hz, oil-immersed, 175/230 MVA, natural and forced air cooled (ONAN/ONAF), GSU transformers, complete with conservator tank, off-load tap changer, H.V. bushings, lightning arresters, control panels, all necessary fittings and accessories. Four (4) transformers shall be connected to the generator circuit breakers through Isolated Phase Bus (IPB) ducts, which are covered in a separate Contract. One (1) transformer will be a spare unit, which will not be energized;
- Insulating oil for first filling of the transformers, which are to be delivered in drums;
- HV terminal lugs for ACSR overhead line connections;
- One (1) set of mandatory spare parts;
- One (1) set of special devices, handling tools and testing equipment required for the installation, testing, commissioning and maintenance of the above transformers;
- The transportation of the transformers, materials, equipment and accessories from place of manufacturer to Site;
- Offloading of the transformers on their concrete bases; Supervision of the erection for the correct, safe and proper installation of the transformers and accessories at Site;
- O&M Manuals;
- Factory and site test procedures and test reports;
- The commissioning and acceptance testing at Site;