

# PH0015 Supply of Isolated Phase Bus

## 1. Package Description

**1.1 Scope of Work Summary** This contract package includes design, fabrication; shop testing, packaging, delivery and warranty of four (4) sets of 3-phase isolated phase bus assemblies for connection of generators, generator circuit breakers, station service transformers, excitation transformers and generator step-up (GSU) transformers.

**1.2 Work Included** Connection housing and flanges for generator, generator circuit breaker, excitation transformer and GSU transformer terminals;

Three (3) single-phase main isolated phase bus connections between generator terminals and generator circuit breakers;

- Three (3) single-phase main isolated phase bus connections between generator circuit breakers and GSU transformers;
- Three (3) single-phase isolated phase bus tap connections to the excitation transformer cubicle;
- Three (3) single-phase isolated phase bus tap connections with isolated phase bus removable links to the station auxiliary service transformer cubicle;
- All necessary braided flexible connectors and accessories for the connection of the GSU transformer, excitation transformer, station auxiliary services transformer and generator circuit breaker;
- Support structures for the isolated phase bus;
- Equipment grounding terminations;
- One (1) set of recommended spare parts;
- One (1) set of special devices, handling tools and testing equipment required for the installation, testing, commissioning and maintenance of the above isolated phase bus;
- O & M Manuals;
- Factory and site test procedures and test reports;
- Supervision of the site installation of the isolated phase bus;
- Supervision of site testing and commissioning of the supplied equipment;

## 1.3 Approximate Quantities (only major items are included)

Item	Description	Unit	Quantity
1	12,000 A isolated phase bus	m	4 x 9
2	12,000 A isolated phase bus 90° elbow	ea	4 x 1
3	12,000 A isolated phase bus wall seal-off	ea	4 x 3
4	12,000 A isolated phase bus floor seal-off/fire barrier	ea	4 x 3
5	600 A isolated phase bus	m	4 x 6
6	600 A isolated phase bus 90° elbow	ea	6 x 3
7	600 A isolated phase bus wall seal-off	ea	4 x 3
8	600 A isolated phase bus floor seal-off/fire barrier	ea	4 x 3

