

Scope of Work

1. Objective

The Contractor shall be responsible for the complete design (where applicable), manufacture, factory testing, supply, transportation, unloading, installation, testing, commissioning, and successful handover of one (01) 1000 KVA, 11/0.415 KV, Oil-Immersed Distribution Transformer, and 11KVA Industrial Protection Panel including all associated electrical, mechanical, civil, and safety works required for a complete and operational installation.

2. Scope of Work

The contractor shall be fully responsible for providing all labor, materials, tools, equipment, transportation, supervision, testing instruments, and technical expertise necessary for successful completion of the project.

The scope shall include, but not be limited to, the following:

2.1 Supply

The contractor shall supply:

- One (01) 1000 kVA, 11KV/415, 3-phase, oil-immersed distribution transformer.
- One (01) 11 kV Industrial Protection Panel equipped with 630 Amp Vacuum Circuit Breaker (VCB).
- All transformer accessories including:
 - Conservator tank
 - Buchholz relay
 - Silica gel breather
 - Oil level indicator
 - Winding temperature indicator
 - Pressure relief device
 - Marshalling box
 - Cable boxes
 - Rating and warning plates
- HT and LT cable termination kits.
- Earthing materials.
- Copper earth electrodes and earth pits.
- Transformer oil.
- All hardware, nuts, bolts, clamps, supports, and accessories required for complete installation.

2.2 Civil Works

The contractor shall:

- Construction of RCC foundation for the transformer as per size.
- 03 Earthing pits with 30 feet depth.
- Debary clearance, installation at the site.

2.3 Installation

The contractor shall carry out:

- Installation of transformer.
- Installation of protection panel.
- Installation of all accessories.

2.4 Electrical Works

The contractor shall perform:

- HV cable termination.
- LV cable termination.
- Neutral connections.
- Earthing of transformer body.
- Earthing of protection panel.
- Neutral earthing.
- Copper strip earthing.
- Interconnection between transformer and protection panel.
- Installation of danger signs and safety labels.

2.5 Testing and Commissioning

The contractor shall perform all pre-commissioning and commissioning tests including:

- Insulation Resistance (IR) Test
- Transformer Turns Ratio (TTR) Test
- Winding Resistance Test
- Oil BDV Test (if applicable)
- Functional testing of protection relays
- VCB operation test
- Earth resistance test
- High Voltage testing (where applicable)
- Phase sequence verification
- Protection coordination checks
- Complete functional testing prior to energization