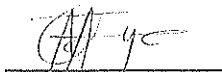


## Technical specification

All components to be supplied under this contract must be fit for purpose and match the operational life expectancy of the transformer, which is 35 - 40 years. Components must meet the minimum standards stipulated in the relevant and latest Eskom standard for each component, as well as the "SPECIFICATION FOR POWER TRANSFORMERS RATED FOR 1.25MVA AND ABOVE AND WITH HIGHEST VOLTAGE OF 2.2KV OR ABOVE", unique identifier 240-68973110. Components must have standard mountings and dimensions as indicated in the descriptions.

Item	Description	Unique identifier
1	"SPECIFICATION FOR POWER TRANSFORMERS RATED FOR 1.25MVA AND ABOVE AND WITH HIGHEST VOLTAGE OF 2.2KV OR ABOVE", unique identifier 240-68973110	240-68973110 latest revision

Approved SOW



Engineering Tech

Tshepiso Nonyane

Date: 30-05-2023

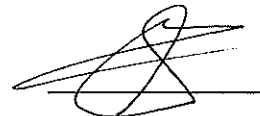


Production Manager

Patrick Campher



Date: 05/06/2023



Workshop Manager

Modise Maphosa

Date: 05/06/2023



Tel:  
Fax:  
Cell:  
E-mail:

30/05/2023

Form No: 240-9402659 Rev 0

## TRANSFORMER AND SWITCHGEAR SERVICES

### Scope of work – Supply, Refurbishment and Delivery of Marshalling kiosks

There are several components that are fitted to a power transformer as part of the electrical and mechanical system. These components have various functions related to the measurement and control of flow, pressure and temperature. Some also have of protecting the system against environmental factors and fault conditions. The various components, comprised of valves, temperature, oil level and flow indicators, etc. are installed throughout the system, in various strategic locations, and are mostly connected to the marshalling panel of the transformer, where information is forwarded to the protection equipment in the substation control room. The life expectancy of these components must match the life expectancy of the transformer unit in service, which is 35-40 years. The components must operate reliably over this lifespan, as failure of a component can result in the catastrophic failure of the whole transformer unit.

The scope of work covers the supply, refurbishment, modifications and delivery of marshalling kiosks to the Purchaser's premises in Rosherville for a period of four years. The contract does not guarantee that any specific quantity of components will be bought over the period of the contract. The transformer components will be purchased for transformer repair and rewind projects on an "as-and-when-required" basis. The scope includes the making available and providing of technical expertise and support with regards to the incorporation and use of the components that are supplied to the Purchaser under this contract. The general use of such expertise will be deemed to be included in the prices quoted for the items in the schedule.

A detailed list of all items required under this contract is given below.

### Functional specification

The transformer marshalling kiosks provide convenient connection points for various control, protection and instrumentation wires which go to, and come from, all the different substation plant. This includes cooling fans, buchholz relays, pressure devices, temperature indicators, oil level indicators and current transformer wiring and terminations.

### Performance specification

#### Delivery requirements

- Materials must be delivered to the T&SS Receipt and Dispatch premises in Lower Germiston Road, Rosherville
- All costs for delivery must be included in the quoted price for the material
- All vehicles must comply to the relevant Eskom Rotek Industries safety policies and procedures when entering the premises
- All vehicles entering and leaving the premises are subject to, and must comply with a security search
- Materials must be suitably protected against damage, moisture and dirt.
- T&SS reserve the right to inspect materials at the premises of the supplier before deliveries are affected by the supplier. Such inspections will not relegate any of the supplier's responsibilities to perform in terms of this contract.
- Offloading facilities and labour will be provided by the Purchaser



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