



POWER SUB STATION – SUSWA, KENYA



PROJECT BACKGROUND

The largest substation in Kenya currently under construction is being built to harness power & feed into the national grid from the following areas.

- Bi National HVDC eastern interconnector transmission from Ethiopia. Transmission line 1,068 km long.
- Olkaria – Geo Thermal power
- Lake Turkana – Wind power

TRANSEAST SCOPE OF WORK

- Transeast to transport all transformers & accessories from Kilindini port to Suswa site (without oil)
- Establish appropriate trailer configuration in line with KENHA (Kenya National Highways Authority) legal requirements. Stability calculations to support trailer combination.
- Assess all route / site surveys and document.
- Carry out risk analysis and document.
- Ensure daily tool box talks are carried out and documented.
- Implement & follow Method Statement.
- Receive all transformers from heavy lift vessel via direct discharge.
- Apply abnormal permits with KENHA.
- Transport & stage surplus transformers, jack down to the ground for temporary storage awaiting transport in nominated area.
- Auto Transformers (3 units in convoy) to be transported to site on modular trailers.
- Jack up and load HVDC Transformers from temporary storage for onward transport to site.
- HVDC Transformers convoy to be transported on drop deck to site.
- HVDC Transformers to be jacked and skidded to final storage position on plinth.

CARGO DETAILS

Mass:

- 9 x 84 mt Auto Transformers
- 4 x 172 mt HVDC Transformers
- 3 x 190 mt HVDC Transformers
- 2 x 33 mt Smoothing Reactors
- 1 x 40 mt Smoothing Reactor.

EQUIPMENT

2 X 600 HP Mercedes Titans

1 x 360 HP MAN 8x8.

Goldhofer hydraulic modular trailers + drop deck.

Scheuerle hydraulic trailers



ROUTING

Kenya – Kilindini port via Nairobi, down Mai-Mahiu escarpment down to Suswa substation off the Mai Majiu Narok road 600 km.

