

REQUEST FOR PREQUALIFICATION

Construction of 400/220/33 kV Substations and Installation of two line bays

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Country: Tanzania

Description:

Construction of Sumbawanga, Tunduma, Kisada, and Mbeya 400/220/33 kV Substations and the installation of two line bays and associated shunt reactors at Iringa substation.

Lot Number	Description of works
Lot 1	Design, supply and installation of 400/220/33kV Iringa substation and 400/220/33kV Kisada Substation.
Lot 2	Design, supply and installation of 400/220/33kV Mbeya Substation and 400/220/33kV Tunduma substation.
Lot 3	Design, supply and installation of 400/220/66/33kV Sumbawanga substation

Scope of Work:

LOT 1:

Iringa Substation

- Iringa substation is an existing 220/33 kV substation that is located about 5 km east of the city of Iringa. The substation will be extended and will include the required 400 kV switchgear and 400/220/33kV power transformers. The 400kV substation scope will include construction of a control room. four transmission line bays and associated protection and control systems.
- The substation will consist of 400kV double busbar, bus-coupler, four (4) line bays, line shunt reactors, two (2) 400/220/33kV transformer bays, and 2x250 MVA, 400/220/33kV autotransformers. Further, the existing 220kV substation shall be extended to accommodate two new 125 MVA 22/33kV power transformers and a new 33kV switchgear room.

Kisada Substation

The proposed Kisada substation is a greenfield substation that will be located about 13 km north of Nyororo village in Iringa Region.

The proposed Kisada substation will be equipped with a 400kV double busbar, 400kV bus-coupler, four (4) 400kV line bays with line shunt reactors, two (2) 200 MVA 400/220/33kV auto-transformers and associated transformer bays. The substation will also be equipped with a 220kV double busbar with bus coupler, two (2) 60MVA 220/33kV power transformer and associated 220kV bays, and a 33kV switchgear room.

LOT 2:

Mbeya Substation

- The proposed Mbeya substation will be located in Uyole approximately 9 km east of existing 220 kV substation in Mbeya and about 15 km east of Mbeya township.
- The proposed Mbeya substation is a greenfield 400/220/33kV substation that will be equipped with a 400kV double bus bar including bus-coupler, four (4) 400kV line bays including shunt reactors, and two (2) 250 MVA 400/220/33kV auto-transformer and associated bays. The substation will also be equipped with a 220kV double busbar, bus-coupler, two (2) 220kV line bays for the cut in connection of the existing 220kV Mbeya-Makambako transmission line, two (2) 60 MVA 220/33kV power transformer and associated bays, , and 33 kV switchgear room.

Tunduma Substation

- The proposed 400/220/33kV Tunduma substation will be located about 18km northwest of Tunduma township in the Songwe Region.
- The proposed Tunduma substation is a greenfield 400/220/33kV substation that will be equipped with a 400kV double busbar, bus coupler, three (3) 400kV line bays including shunt reactors, two (2) 250 MVA 400/220/33kV auto-transformer and associated bays, and three (3) bays for the 400/330kV auto-transformer bays to be installed under a separate contract. The substation will also be equipped with a 220kV double busbar, bus-coupler, two 125 MVA 220/33kV power transformers, and 33kV switchgear room.

LOT 3:

Sumbawanga Substation

- The proposed Sumbawanga substation will be located about 5km west of Sumbawanga Township in Rukwa Region.
- The proposed Sumbawanga substation is a greenfield 400/220/66/33kV substation that will be equipped with a 400kV double busbar, bus coupler, two (2) 400kV line bays including shunt reactors, and two (2) 150 MVA 400/220/33kV auto-transformers and associated bays. The substation will also be equipped with a 220kV double busbar, bus-

coupler, and two (2) 90MVA 220/66/33kV power transformers and associated bays. Also, the substation will be equipped with 66kV single busbar divided in two sections, two (2) 66kV line bays for the cut-in connection of the existing 66kV line from Zambia to Old Sumbawanga substation, and 33kV feeders for reinforcement of local distribution. Included in this package is the diversion of existing 66kV line from Zambia to the Old Sumbawanga substation.

For more information about the bidding details, please contact:

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Lot 1: Design, supply, and installation of 400/220/33kV Iringa substation and 400/220/33kV Kisada substation

Lot 2: Design, supply, and installation of 400/220/33kV Mbeya substation and 400/220/33kV Tunduma substation

Lot 3: Design, supply, and installation of Sumbawanga Substation (400/220/66/33kV)