

8.0 BUIPE SUBSTATION PROJECT

Background

This project is at the request of two (2) cement manufacturing companies. These companies would prefinance the cost of implementation and GRIDCo would reimburse part of this capital cost contribution on terms to be later agreed upon.

Project Objective

The Ghana Grid Company (GRIDCo) intends to construct a 161/34.5kV to supply permanent bulk power to Buipe Cement Company Ltd and Savanna Cement Company Ltd. The project also envisages converting the existing power supply system at Buipe from the Shieldwire Scheme to the conventional supply scheme to meet the anticipated growth in power demand at Buipe and its environs (including BOST and Volta Lake Transport Company (VLTC)), as a result of locating the cement plants in the area.

Scope of Works

The scope of Works included but not limited to the following:

- Turn-key construction of a new substation at Buipe under the existing 161kV Techiman – Tamale transmission line. The substation would be configured as a main-and-transfer busbar scheme with ultimate design for six (6Nos.) bays for two(2Nos.) lines, three (3Nos.) Power Transformers and a bus-coupler with provisions for creating one (1No.) additional bay in future for a line/transformer. This will involve the design, manufacture, testing, supply, installation and commissioning of 161kV balance of plant for the termination of the lines and installation of the power transformers.
- Breaking into the existing 161kV Techiman - Tamale transmission line at the Buipe Substation.
- Supply and installation of 2No 25/33MVA 161/34.5kV Power Transformers.
- Supply and installation of 2Nos. 250kVA, 34.5/0.433-0.250kV Grounding/Auxiliary Transformers.
- Provision of new communication and SCADA system at Kintampo Substation and upgrade of the SCADA and Communication systems at Techiman and Tamale Substations.
- All civil works associated with the above works including but not limited to survey, substation site clearing, leveling, filling and compaction, control building, gatehouse, drainage, fencing with gates, equipment plinths, etc.

Duration for Contract Implementation

The duration for contract implementation shall be 18 months.

Project Status

Preliminary designs, preparation of technical specifications and bidding documents about 95% completed.

Funding

This project would be pre-financed by the beneficiary cement manufacturing companies.