

3.0 SUPPLY OF POWER TRANSFORMERS

Project Objective

The objective of this project is to

- a). provide a single contingency firm transformer capacity at all substations
- b). procure strategic spare power transformers as replacements for over-aged transformers.
- c). procure additional transformers to meet expected large increase in load.

Scope of Works

The scope of this project is made up of the design, manufacture, test, delivery to site and installation of the following power transformers:

- 1No.161/34.5kV, 50/66MVA for New Tema
- 3Nos. 161/6.64/11.5, 25/25/15 (33/33/20) MVA for Obuasi
- 1No. 161/11.5/6.64, 13.3/13.3/4.47MVA for Konongo
- 1No. 161/34.5kV, 25/33MVA for Nkawkaw
- 1No. 161/34.5kV, 25/33MVA for Asawinso
- 1No. 161/11.5/6.63kV, 25/25/15 (33/33/20)MVA for Dunkwa
- 1No.161/34.5/11.5kV, 25/25/15 (33/33/20)MVA for Akwatia
- 2Nos.161/34.5kV, 50/66MVA for Takoradi
- 1No. 69/34.95kV, 10/13MVA for Kpeve
- 1No. 161/34.5/11.5kV,25/19.9/9.5 (33/25/12.5)MVA Spare Transformer for Techiman and Sunyani

Project Benefits

- Increase in the reliability of supply
- Improvement in security of supply
- Enhancement of operational flexibility
- Routine maintenance on transformers can be undertaken on schedule thus prolonging transformer life, defer investment and reduce unexpected failures.
- Transformers will be loaded to their optimum limits thus reducing transformer losses and overall system losses.
- Substations can meet future load growth.

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 90% completed.

Funding

No funding has been secured for this project. GRIDCo is awaiting some other sources of funding for the project.