

Project. A similar approach will be taken for Lot 2. TANESCO currently has two substations in Kingolwira and Dodoma and an existing TL connecting them. However, because these are far from the SGR alignment, TANESCO is also planning to build a new 220 kV substation between Kingolwira and Dodoma. The new substation is intended to feed the railway lines in case of the existing substations (Dodoma and Kingolwira) malfunctioning.

2.4 Construction Timing

The construction activities for the SGR Project will be done in two phases:

- Phase 1: “Dar es Salaam - Morogoro section” (205 km); envisaged construction period from May 2017 to May 2020;
- Phase 2: “Morogoro - Makutupora section” (336 km) envisaged construction period from February 2018 to February 2021.

The commencement of SGR railway operations is envisioned shortly after completion of construction (and commissioning) works in each Phase.

2.5 Construction Works

The SGR Project will be implemented under the so-called “Design-Build” project delivery system. TRC has already entered in contract with the Turkish company Yapi Merkezi to implement the railway construction for the first 200 km between Dar es Salaam and Morogoro (already under construction).

The construction activities for the SGR Project follow the typical sequence for such projects, eg:

- Survey Works and technical testing of the route
- Expropriation and Resettlement of homes, farms, businesses in the right-of-way
- Clearance of Existing Land and Vegetation
- Earthworks and Civil Works, Construction of Culverts/drains and the track bed
- Placement of Overhead Wiring, Signalling & Telecommunication Works
- Construction of Buildings and Bridges
- Final Commissioning, including electrification of the line and fencing

The railway construction will also involve related activities such as:

- Extraction and transportation of building materials (eg rock, timber, soils, fill material)
- Establishment of temporary storage areas for spoil/overburden materials
- Construction of new railway stations; campsites; storage yards; electricity substations and power transmission systems; access roads.

The stations along the SGR are to serve as passenger and freight facilities. Dar es Salaam, Morogoro and Dodoma Stations will also include water supply infrastructure. The marshalling yards will include maintenance and assembly workshops, tank-washing points, living quarters, general office buildings and other facilities.

Related infrastructure will be constructed to keep open existing roadways and water courses, eg

- Overpasses and underpasses where the proposed SGR intersects with existing roads.
- Culverts over natural watercourses or for drainage.
- Viaducts where the proposed SGR passes through well-established towns and or cities;
- Underpasses to allow cattle (livestock) and people to cross the railway