

	Limpopo Operating Unit: General Civil Works Scope of work	Template Identifier	240-43921804	Rev	6
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SCOPE OF WORK FOR GENERAL CIVIL WORKS

1. Site Establishment

Occupation of site, setting up of offices and storage area by contractor

2. Relocation of services

The contractor is to relocate services as specified and indicated in the drawings and those identified during construction.

3. Site clearance

This specification covers the removal of vegetation, boulders of size up to 0.15m³, and surface obstructions, and the demolition and removal of structures not directly associated with or incidental to any excavation. The contractor will perform this specification using the construction drawings given to him. The contractor shall comply with all environmental requirements as stated in the EMP when performing this scope.

4. Earthworks

This scope covers earthworks carried out with heavy plant, light plant or by hand, for general excavations, trenches, terracing backfilling and landscaping. It covers soft excavation, Intermediate excavation, Hard rock excavation and boulder excavation/blasting, ripping and compacting of platform/roadbed, backfilling and compacting pavement layers with suitable material from stockpile or imported from registered nearby borrow pit or commercial source and disposing unsuitable material to a registered nearby dumping site. The backfilling and compacting will be as per the engineer's specifications, density test will be required. The final platform levels will be checked and signed off by the engineer. The contractor shall comply with all environmental requirements when performing this scope. 26-38mm crusher stones will be used as surfacing in substations, 80mm thick paving bricks will be used for internal streets and parking Area, Asphalt and double seal surfacing will be used for Access road.

5. Concrete Works

This specification covers the requirements for structural concrete works (plain and reinforced) for civil engineering and building construction. It covers all the substation plinths, building foundations, oil-holding dams, storm water management structures, runways and slabs. The concrete structures shall meet all the design requirements i.e. concrete strength (slump test and cube test to be conducted). Admixtures shall not be used in any concrete mix without the approval of the engineer. Reinforcement shall be as per the design specifications and shall comply with the relevant requirements of SABS 920. The shuttering and reinforcement will be checked and signed off by the engineer before concrete is placed.

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6. Slope Protection and Retaining walls.

Slope protection and retaining walls to be constructed as per the engineer's design and specifications, there are various methods of slope protection and retaining walls, the most common used are Stone pitching, reinforced concrete walls, plain concrete linings, terraforce retaining blocks, grass, and compacted gravel.

7. Building

This scope includes construction and maintenance of control rooms and Eskom buildings (CNC's & other Eskom building). The construction of the building shall be as per the construction drawings and specifications from the engineer and shall comply with the requirement to SABS 0164 and SANS 10400.

8. Storm water Drainage

This scope covers the construction of storm water drainage systems. The storm water drainage systems include surface water drainage and subsurface water drainage. The contractor will construct the storm water drainagesystem as per the engineer's construction drawings.

9. Water reticulation

This scope covers the construction of portable water network connected to the borehole or municipal portable water network. This scope include the drilling and equipping of the borehole, the contractor will use his machines to detect a suitable position to drill the borehole on site.

10. Sewer Reticulation

This scope covers the construction of sewerage system including manhole, connecting sewers Lines to the conservancy tank or municipal sewer mains

11. Fencing

Fencing around the substation and Eskom buildings will be constructed as per the engineer's specification. The following types of fence are used

- Palisade Fence
- Diamond mesh Fence
- High Security Mesh Fence
- Precast concrete walls
- Masonry walls

12. Steel Works

Steel works for structures as per engineer's designs and D-DT Standards.

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