



Title: **APPOINTMENT OF A  
CONTRACTOR FOR TWO  
SINKHOLE REPAIR AT  
KENDAL POWER STATION**

Unique Identifier: N/A

Alternative Reference Number: **N/A**




Area of Applicability: **Kendal**

Documentation Type: **Works Information**

Total Pages: **2**

Disclosure Classification: **CONTROLLED  
DISCLOSURE**

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# C3: Scope of Work

## 1. Works Information

The project scope is for repair of sinkhole at Kendal Power Station.

### 1.1 Project Introduction and background

There has been a sinkhole at Kendal Power Station at one of the manholes which contain demineralised water. The sinkhole is located on the road near SSB. The sinkhole was repaired late last year but the compaction and material used were not in accordance to the scope of work. This scope of work is for recovery of the collapsed sink hole and associated structures

### 1.2 Work to be performed by the contractor

Project execution shall be conducted according to scope of work and relevant SANS 1200 DB and COLTO standard

#### 1.2.2 Excavation, storage and disposal

Excavation shall be done by a TLB and man power. All excavated material shall be stockpiled in a manner which is approved by Eskom engineer. Excavation from the manhole to the road shall be done to a full depth of the manhole (6m deep) with a ramp shape resulting in lower level being on the road. Excavation shall be done such that a ramp is created on the road using TLB.

Excavated material shall be used as a berm to avoid water from entering in the excavation area. The berm can be created without compaction. The berm shall be removed after compaction of tar.

All deep excavation/trench shall be supported from collapsing by the contractor shall supporting method shall comply with SANS 1200 DB earthworks.

Contaminated material shall be disposed at hazardous landfill. (holfontein landfill)

Clean soil material can be disposed just outside Kendal power station

General waste shall be disposed in Kendal skip bins for general waste

#### 1.2.3 Compaction on the road (6m x 6m and 6m deep max)

The soil below the road shall be compacted with G5 in layers of 150mm to 98% of MOD AASHTO density. Earthworks shall comply with SANS 1200D.

Sub-base layer of 150mm shall be compacted with C3, stabilised with 3% cement and be compacted in layer of 150mm to 98% of MOD AASHTO density.

Compaction test shall be done for all layers to ensure that the specified density of 98% of MOD AASHTO is achieved.

Base layer of 150mm shall consist of G2 material and be compacted in layer of 150mm to 98% of MOD AASHTO density. Compaction shall be done with a suitable smooth roller. The contractor shall utilize a lab for testing of material to ensure quality assurance.

#### 1.2.4 Surface

The failed tar asphalt shall be removed by cutting it with saw cut in square sections. The old tar shall be removed and be disposed.

The old asphalt shall be replaced by a new hot asphalt which shall be laid and be compacted. The new asphalt shall be compacted such the strength is maximised and voids are minimised.

Laying and compaction of asphalt shall be done under supervision of Eskom engineer.  
The surface shall consist of sloping surface to match the existing slope and shall not allow ponding of water.

## 2. Quality Requirements

The *Contractor* shall comply with the Employer's Quality Requirements as specified in Eskom QM58 document and quality management system ISO: 9001:2008

- *Contractor* shall provide proof of payment and quality compliance specifications to the Engineer on every material purchased for approval.
- Comprehensive project methodology shall be issued to *Project Manager* prior commencement and be approved by the *Engineer*.
- Project QCP shall be developed and approved prior project commencement and shall be used as a quality management tool for the project till completion.

## 3. Health, Safety and Environment (SHE)

The *contractor* shall comply with the following standards and SHE:

- Eskom SHEQ policy
- SHE requirements for Eskom commercial process
- Adhere to the OHS Act 85 of 1993.
- Adhere to Eskom lifesaving rules
- All staff shall undergo Safety Induction, presented by *Employer's* Risk Management Department.
- *Contractor* shall obtain a permit and adhere to the permit to work system used at Kendal Power Station before carrying out any work.
- Kendal specific environmental policy and procedures
- Kendal specific environmental policy and procedures Environmental Management System (ISO 14001, 2004).
- Kendal Waste Management Procedure (1024012).
- Kendal Environmental Non-conformances, corrective and preventive measures (1015684).
- The *contractor* shall report any Environmental incidents that can occur, to the environmental department.