



DIKGATLONG LOCAL MUNICIPALITY

TECHNICAL WORKSHOP AND

WATER TREATMENT PLANTS AND ADMINISTRATIVE OFFICES

REPAIRS, TESTING AND ISSUING OF ELECTRICAL CERTIFICATE OF

**COMPLIANCE AS PER REQUIREMENTS OF THE DEPARTMENT OF
LABOUR**

ELECTRICAL INFRASTRUCTURE AND EQUIPMENT

SCOPING AND CONDITIONING REPORT

PREPARED BY:

ISSUED BY:

09 MAY 2015

CLOSING DATE: 18 MAY 2016

DIKGATLONG LOCAL MUNICIPALITY

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ELECTRICAL INFRASTRUCTURE AND EQUIPMENT:

SCOPING AND CONDITIONING REPORT

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DIKGATLONG LOCAL MUNICIPALITY

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**REPAIRS, TESTING AND ISSUING OF ELECTRICAL CERTIFICATE OF
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ELECTRICAL INFRASTRUCTURE AND EQUIPMENT

SCOPING AND CONDITIONING REPORT

CONTROL AND APPROVAL PAGE

ISSUE	DESCRIPTION	DATE
0	SCOPING AND CONDITIONING REPORT FOR THE REPAIRS, TESTING AND ISSUING OF ELECTRICAL CERTIFICATE OF COMPLIANCE	10 May 2016

APPROVED BY: DIKGATLONG LOCAL MUNICIPALITY			
NAME	DESIGNATION	SIGNATURE	DATE

1. DISTRIBUTION COMMUNICATION AND ROLE PLAYERS

1.1 DISTRIBUTION AND COMMUNICATION

DISTRIBUTION AND COMMUNICATION:			
1			
2			
3			

1.2 REVIEWED BY: DIKGATLONG LOCAL MUNICIPALITY

REVIEWED BY:			
NAME	DESIGNATION	SIGNATURE	DATE

1.3. ROLE PLAYERS

This relates to personal that has a direct involvement on the project

DIKGATLONG LOCAL MUNICIPALITY:				
NAME	DESIGNATION	FAX NUMBER	TEL NUMBER	ROLE
Mr Christian Mokeng	CFO	053 531 0624	053 531 6500	SCM
Mr Abram Nthoba	Technical Manager	053 531 0624	053 531 6500	TECHNICAL
Mr Vreis Castel	Technician	053 531 0624	053 531 6500	Electrical
Mr Joseph Marupelo	Superintended	053 531 0624	053 531 6500	Electrical

1.3. PROFESSIONAL TEAM

This relates to personal that has a direct involvement on the project

NAME	ORGANISATION	FAX NUMBER	TEL NUMBER	ROLE

2. **EXECUTIVE SUMMARY**

The purpose of this report serves to define the scope of work, documentation for the:

- Electrical Engineering Services for the provisioning of repairs, testing and issuing of Electrical Compliance Certificates for the facilities of Dikgatlong Local Municipality namely:
 1. Administrative Offices.
 2. Technical Workshop.
 3. Water Purification Plants.

The facilities are fully functional facilities and all the repair and testing works will be undertaken with due care and prior planning with the contractors and the facilities management.

We envisage that minimum disruption will occur during the duration of the contract and such disruption will be of mutual agreement between the facilities management representatives, the principal agent and the contractor amongst others.

The report is based on the following:

- The Department of Labour report received on the 11th January 2016.
- The Department of Labour report received on the 09th March 2016.

The electrical installation has been divided into the following generic installation:

Installation1: Electrical Installation and Infrastructure in buildings.

This report shall describe the scope of works and will be categorised as follows:

CATEGORY 1: REPAIRS AND ALTERATIONS

The electrical installation will be repaired accordingly in this contract. The repair work will include the following amongst others:

- The servicing and or replacement of obsolete (old) electrical distribution boards equipment and switchgear.
- The replacement of obsolete electrical distribution boards.
- The servicing of electrical installation in services buildings.
- The servicing and refurbishment of the LV distribution board.
- The servicing and or replacement of damaged and obsolete perimeter lighting.
- The replacement of obsolete and damaged light fittings.
- Re wire the electrical wiring according to the electrical installation SANS 10142.
- Labelling of Electrical Installation to Comply with SANS 10142.
- Testing the complete electrical installation and Issue CoC.
- Testing of the installation of earthing requirements as described by SANS 0292 and IEC 60325.
-

The repair work will include the following amongst others:

- The repair work for those areas that have suffered operational damages.
- The repair work associated with regulatory compliance, e.g. Certificates of Compliance (CoC)
- The repair work for those areas that are not maintained in the day to day maintenance.

3. ELECTRICAL INFRASTRUCTURE

The electrical infrastructure installation at the Dikgatlong Local Municipality facilities are operating optimally, and needs to be repaired accordingly to comply with the relevant statutory legislation.

This report shall detail the extend, to which the electrical infrastructure will be repaired, serviced and tested in order for the facilities to be at a fully functional state whilst complying to relevant statutory requirements and the OSHAct.

4. INSTALLATION 1: ELECTRICAL INSTALLATION IN BUILDINGS

The buildings are divided according to their use on site and hence categorised as such.

- (A) Administrative Building Offices
- (B) Technical Workshop
- (C) Water treatment Plants

A. Administrative Building Offices

This building is utilised as the office block for administrative duties. The building is classified under the G1 category in the National Building Regulations. The electrical installation is basically in a fair condition and original though it does not comply with the current regulations.

The extent of the works shall be guided as per the requirements of the tests and comply with the SANS 10142.

B. Technical Workshop Building

The original design of the building intended purpose was to be utilised as a workshop when constructed.

The extent of the works shall be guided as per the requirements of the tests and comply with the SANS 10142.

C. Water Treatment Plants

The extent of the works shall be guided as per the requirements of the tests and comply with the SANS 10142.

5. COMPLINACE

The repairs to the existing installation shall be guided by the latest revisions of the following standards:

- SANS 10400 – The applications of building regulations.
- SANS 10142 – Code of practice for the wiring of premises.
- SANS 10292 – Earthing of low voltage (LV) distribution systems.
- OHS Act – All the regulations and statutory requirements as laid down in the latest edition of the Occupational Health and Safety Act, 1993.

ANNEXURE A

**PICTURES OF CURRENT
INSTALLATION**

ANNEXURE B

COST ESTIMATES FOR THE REPAIRS AND ISSUING OF ELECTRICAL CERTIFICATE OF COMPLIANCE