

P3455

27 September 2013

Muhle Unlimited Designs  
P.O Box 3481  
Durban 4000

Attention: Mr Vitalis Z. Mubika

Dear Sir

**WCS 054579: SOUTHERN REGION: PIETERMARITZBURG: COGTA: WHITBY LODGE: REPAIRS AND RENOVATIONS**

1. INTRODUCTION

This report covers the electrical installation requirements for the above mentioned project.

2. SCOPE OF WORKS

The scope of work regarding the electrical installation required for this project entails the following:

- The supply, delivery and installation of a complete electrical system including lighting, small power points, lightning protection, telephone points and Data points.
- The electrical installation will be carried out in the following areas
  - The Whitby Lodge AA section

3. DESIGN PROPOSALS

3.1 STANDARDS

The Statutory and Building Regulations for public buildings will be followed. The relevant standards are as follows:

- SANS 0400 - The application of the National Building Regulations.
- SANS 10142 – Code of practice for the Wiring of Premises (as amended)
- KZNPA- Department of Public Works – General Electrical Specification
- Occupational Health and Safety Act
- Requirements of the Local Authority
- Requirements of the Local Fire Department.

4. EXISTING INSTALLATION

- The existing installation is old and outdated and in need of replacing.

**ELECTRICAL & MECHANICAL ENGINEERS • PROJECT & FACILITIES MANAGERS**

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VAT Reg. No.: 4520234610

Company Reg. No.: 2007/000416/07

Non Executive Directors:

Executive Directors: CEO – BS Ngamlane (Pr. Tech Eng, B. Tech, MSAIEE, MIPET); CFO – BJP Rossouw (Pr. Eng, C.E.M., C.M.V.P., B.Eng, B.Sc (Hons), B.Com, MAEE); COO – PJ Janse van Rensburg (Pr. Tech Eng, M. Dip Tech, MSAIME, MIPET).

Company Secretary: Q Botha (B. Acc (Hons.), CTA)

## 5. EXTERNAL INSTALLATION

### 5.1 Lighting

- All light fittings shall be of the energy saver fluorescent type and shall comply with the SANS 1041 and shall be 4 300'K warm white.
  - External lighting will be by means of a round slimline type luminaire with 2x16W compact fluorescent lamps and die-cast aluminium base with acrylic diffuser or other approved will be used.

### 5.2 Lightning Protection

- The lightning Protection will be done in accordance with SANS 10313: 1999.

## 6. INTERNAL INSTALLATION

### 6.1 Lighting

- Round slimline luminaires with 2x9W compact fluorescent lamps and die-cast aluminium base with acrylic diffuser bulkhead light fittings, or other approved will be used.
- A surface mounted fluorescent luminaire complete with lamps and electronic control gear with telescopic lamp holders, or other approved will be used in the storerooms.
- A Lowbrite aluminium diffuser fluorescent luminaire complete with lamps and electronic ballast control gear, or other approved shall be used in the office blocks.

### 6.2 Power

- The power skirting to be installed shall comply with SANS IEC 61084-2-1. The power skirting shall be of the "LEGRAND DLP CV 65 Fixed Partition" 2 compartment power skirting including internal divider and all bends, or other approved.

### 6.3 Distribution Boards and Reticulation Routes

- The distribution boards will be according to the Department of Works regulations and in accordance to SANS 10142-1, reticulation will be by means of appropriately sized underground cables.

### 6.4 Telephone Installation

- The Telephone installation will be done according to the Telkom requirements And the Client Department needs to apply to Telkom for telephone services as and when required.

### 6.5 IT Installation

- RJ 45 points will be provided in power skirting in accordance with the Standards requirements for computers etc.

### 6.6 Intruder Alarm System

- Client to advise on Intruder alarm installation

### 6.7 Air-conditioning

- We have not as yet received appointment as Mechanical engineers for the project.

## 7. COST ESTIMATE

The estimated cost for the project is based on the following:

- VAT is excluded
- Builder's markup is excluded
- All builder's work in connection with the services is excluded.

### **Estimate of the internal and external electrical installation**

Total Estimate for the works R 315 000.00

The above does not include the following:

1. VAT
2. Professional fees
3. Builder's markup
4. Telkom connection fees
5. Builder's work in connection with the services
6. Escallation.