

1. PURPOSE

Ogies terminal invites suitably qualified and registered electrical contractors to submit quotations for the inspection, repair, rewiring, testing, commissioning, and certification of the electrical installation at the Ogies Terminal.

The objective of this project is to improve the reliability and safety of the electrical infrastructure, eliminate recurring power disturbances, restore non-functional electrical outlets, improve external & internal lighting, inspect the Main distribution box, and obtain a valid Certificate of Compliance (CoC) in accordance with the Occupational Health and Safety Act and SANS 10142.

2. BACKGROUND

The Ogies Terminal has experienced recurring electrical problems, including:

- Frequent power dips affecting operations.
- Electrical plugs and socket outlets that are not functioning.
- Possible deterioration of electrical wiring.
- Inadequate and unreliable external lighting.
- Concerns regarding the condition of the electrical distribution system and substation.
- Requirement to obtain a valid Electrical Certificate of Compliance (CoC).

These issues present operational and safety risks and require a comprehensive assessment and corrective action by a competent electrical contractor.

3. SCOPE OF WORK

The successful contractor shall provide all labour, supervision, materials, tools, testing equipment and transport necessary to complete the works.

The scope includes, but is not limited to:

3.1. Electrical Assessment

Conduct a comprehensive inspection of the entire electrical installation, including:

- Main Distribution Board (MDB)
- Distribution Boards (DBs)
- Electrical circuits
- Internal wiring
- Socket outlets
- Lighting circuits
- Earthing system
- Bonding
- Electrical protection devices
- Cable routes
- External electrical installations

Provide a detailed inspection report identifying defects and recommended corrective actions.

3.2 Rewiring

Remove and replace defective electrical wiring where required.

The contractor shall:

- Replace damaged cables.
 - Replace damaged conduit where necessary.
 - Replace defective junction boxes.
 - Replace damaged isolators.
 - Replace damaged switches.
 - Replace defective socket outlets.
 - Ensure all wiring complies with SANS 10142.
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3.3 Plug Points

Inspect all plug points throughout the facility.

The contractor shall:

- Repair all non-functional plugs.
 - Replace damaged socket outlets.
 - Test polarity.
 - Test earth continuity.
 - Test insulation resistance.
 - Clearly label repaired circuits.
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3.4 Lighting

Inspect all internal and external lighting.

The contractor shall:

- Repair faulty lighting circuits.
 - Replace defective fittings where required.
 - Replace damaged switches.
 - Restore full functionality.
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3.5 External High Mast / Flood Lighting

Inspect and repair all external lighting around the facility.

Work includes:

- Replacement of defective floodlights (LED).
- Replacement of damaged fittings.
- Replacement of photocells if required.
- Replacement of damaged wiring.
- Adjustment and testing of lighting.

Ensure adequate illumination for security and safe movement during night operations.

3.6 Main distribution box Inspection

Carry out a detailed inspection of the electrical Main distribution box, including:

- Incoming supply
- Transformers (where applicable)
- Switchgear
- Protection systems
- Earthing
- Cable terminations
- Busbars
- Electrical panels

The contractor shall identify defects and recommend repairs where necessary.

3.7 Testing and Commissioning

Upon completion of repairs, perform all statutory electrical tests, including:

- Earth continuity
- Earth loop impedance
- Insulation resistance
- Polarity
- Earth leakage
- Voltage tests
- Functional testing
- Distribution board testing

Submit test results with the final report.

3.8 Certificate of Compliance (CoC)

Upon successful completion of all repairs and testing, the contractor shall issue:

- Electrical Certificate of Compliance (CoC)

The CoC shall comply with:

- Occupational Health and Safety Act 85 of 1993
- Electrical Installation Regulations
- SANS 10142-1

The CoC shall be signed by a Registered Installation Electrician or Master Installation Electrician.

3.9 Earthing of Mobile Generators

The appointed contractor shall inspect, design, install, test, and certify the earthing systems for all mobile generators used to operate underground water pumps in the field.

The scope shall include, but not be limited to:

- Inspect all existing mobile generators and their electrical connections.
- Assess the adequacy of existing earthing arrangements in accordance with SANS 10142-1 and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).
- Supply and install compliant earthing systems, including earth electrodes (earth spikes/rods), earth conductors, clamps, and associated fittings where required.
- Ensure all generator frames, distribution boards, and associated electrical equipment are correctly bonded and earthed.
- Verify the continuity and effectiveness of the earthing system by conducting the required electrical tests, including earth resistance and earth continuity tests.
- Clearly identify and label all earthing points and connections.
- Rectify any defects identified during the inspection to ensure safe operation of the generators.
- Provide test reports confirming compliance of each earthing installation.
- Include the earthing installations within the final Electrical Certificate of Compliance (CoC) where applicable or provide separate compliance documentation where required by legislation.

The contractor shall ensure that all mobile generator earthing systems are suitable for field conditions and provide adequate protection against electric shock, fault currents, and equipment damage during operation.

4. DELIVERABLES

The successful contractor shall provide:

- Electrical inspection report.
- Defect list.
- Repair report.
- Electrical test certificates.
- Electrical test results.
- Updated single-line diagrams (if required).
- Certificate of Compliance (CoC).
- Completion report.
- Warranty on workmanship and materials.
- Inspection and assessment report for all mobile generators.
- Installation of compliant earthing systems for all mobile generators used to pump underground water.
- Earth resistance and earth continuity test results.
- Updated electrical drawings (where applicable).
- Compliance certificates and inclusion of the generator earthing systems in the final Electrical Certificate of Compliance (CoC), where applicable.

5. HEALTH AND SAFETY REQUIREMENTS

The contractor shall comply with the Occupational Health and Safety Act (Act 85 of 1993) and all applicable regulations. Prior to commencing work, the contractor shall submit a Health and Safety File containing:

- Company Safety Policy
- Risk Assessment
- Method Statement / Procedure
- Letter of Good Standing (COIDA)
- Proof of employee competency
- Electrical Trade Certificates
- Registration with the Department of Employment and Labour
- Public Liability Insurance
- Medical Certificates (where applicable)
- PPE Compliance
- Emergency Procedures

No work may commence until the Health and Safety File has been approved by SANPC.

6. CONTRACTOR REQUIREMENTS

The contractor shall provide proof of:

- Registration with the Department of Employment and Labour.
- Qualified Installation Electrician or Master Installation Electrician.
- Valid Wireman's Licence.
- Experience with industrial electrical installations.
- Minimum three (3) contactable references for similar work.
- Valid COIDA Letter of Good Standing.
- Public Liability Insurance

8. WARRANTY

The contractor shall provide a minimum 12-month warranty on all workmanship, repairs, and materials supplied.

9. EVALUATION CRITERIA

Quotations will be evaluated based on:

- Compliance with the scope of work.
- Relevant experience.
- Contractor competency.
- Price.
- Availability.
- Health and Safety compliance.
- Ability to issue a valid Certificate of Compliance.

10. COMPULSORY SITE INSPECTION

A compulsory site briefing and inspection may be conducted before submission of quotations. Failure to attend the compulsory site inspection may result in disqualification.

