

## **TECHNICAL SPECIFICATION**

For: Transnet National Ports Authority

Project Name: Assessment, repair and provision of Certificate of Compliance (SANS 10142) for various buildings

## **SPECIFICATION: Assessment, Repair and Issue Certificate of Compliance for Various Buildings at the Port of East London**

### **1. LOCATION OF WORKS**

- The works will be in the Port of East London in various buildings.
- The areas are access controlled, and all security and safety protocols must be adhered to.

### **2. SCOPE OF WORK AND REQUIREMENTS**

#### **2.1 SCOPE**

The *Contractor* shall have to conduct assessment of electrical installation and do repairs where required in order to comply with SANS 10142-1.

The buildings to be tested and certified are:

- 1) Port Control building
  - Store 1
  - Stand by plant room
- 2) Port Admin building
  - ICT Building
  - Stand by plant room
- 3) Manhattan Building
- 4) Port Rex
- 5) Marine
  - Weigh bridge
- 6) Dry Dock
  - Port Side Motor Generator room
  - Electrical workshop
  - Starboard Motor Generator room
  - Compressor room

- Pump room
- Ablution block 1(Ship crew)
- Ablution block 2(Ship crew)

#### 7) Substations

- Main sub
- Slipway
- State warehouse
- Combi
- Tanker Berth
- Pump room Dry dock Transformer room

#### 8) Entrances and Security Hut

- Main gate
- Dry dock gate
- Pantoon gate
- Prison gate
- Bridge gate
- Dry dock sliding gate
- Tanker berth
- Marine
- Ski-boat
- Admin
- Port Control

Description of building/area	Distribution board quantity
<b>Port control</b>	
Store 1	1
Stand by plant room	2
<b>Sub-total</b>	<b>3</b>

<b>Port Admin</b>	
Stand by plant room	1
ICT building	1
<b>Sub-total</b>	<b>2</b>
<b>Dry Dock</b>	
Port side motor generator room	2
Electrical workshop	1
Starboard motor generator room	2
Compressor room	1
Pump room	1
Ablution block 1(Ship crew)	1
Ablution block 2(Ship crew)	1
<b>Sub-total</b>	<b>9</b>
<b>Substations</b>	
Main Sub	1
Slipway	1
Tanker Berth	1
Pump room Dry dock Transformer room	1
State Warehouse	2
Combi	1
<b>Sub-total</b>	<b>7</b>
Manhattan Building	4
<b>Sub-total</b>	<b>4</b>
Port Rex	1
<b>Sub-total</b>	<b>1</b>

<b>Entrances and Security Huts</b>	
Main gate	2
Dry dock gate	1
Pantoon gate	1
Prison gate	2
Bridge gate	1
Dry dock sliding gate	1
Tanker berth	1
Marine	1
Ski-boat	1
Admin	1
Port control	1
<b>Sub-total</b>	<b>13</b>
<b>Marine</b>	
Weigh bridge	1
<b>Sub-total</b>	<b>1</b>
<b>Overall total</b>	<b>40</b>

## 2.2 REQUIREMENTS

- The *Contractor* shall carry out a comprehensive test in terms of SANS 10142-1 to ensure the basic safety considerations and electrical compliance of all electrical installations regarding the protection of people, property and the proper functioning of the electrical installations.

- The *Contractor* shall provide and test the buildings' earth spike thoroughly in terms of SANS 101042-1.
  - The successful *Contractor* shall provide the quote for repairing/clearing of electrical wiring faults and the replacement of equipment where necessary, subject to approval by project manager.
  - The *Contractor* shall allow for the generation of circuit diagrams. Line diagrams/drawings to be submitted in hard copy and soft copy (pdf and AutoCAD-DWG) for each building/area.
  - The *Contractor* shall ensure that the distribution boards (DB) are clearly designated or labelled.
  - The *Contractor* shall draft a report of all faults and findings found. The report shall be discussed with TNPA Electrical personnel before the repairs are done.
  - The *Contractor* shall include a certified copy of the relevant person's wireman's license with the tender document.
- 
- All remedial work regarding the closing of holes and making right any areas affected by the works will be done by the *Contractor* and approved by the Civil Supervisor before sign-off for the works.

**Note:**

The *Contractor* shall supply Transnet National Ports Authority with a Certificate of Compliance in terms of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) that requires that all electrical installations shall comply with the requirements of SANS 10142-1. It also requires that an accredited person as defined (master installation electrician / installation electrician) shall issue a Certificate of Compliance for an electrical installation.

### 3. SAFETY

The successful *Contractor* shall:

- Accept his obligation to complying fully with the Act.
- Provide a comprehensive health and safety plan detailing his proposed compliance with the regulations. The Health and Safety Management Plan must provide a systematic method of managing hazards and implementing control measures.
- Prepare and submit the Safety file to the *Project Manager* for acceptance. The Safety file will then be submitted to the TNPA SHEQ Department for approval before start of the works.
- The *Contractor* shall always be responsible for full compliance with the approved plan.
- Always keep a safety file during execution of the work.
- Needs to undergo TNPA SHE induction training before the commencement of the work.
- Keep a site diary and instruction book.

### 4. ENVIRONMENTAL RESPONSIBILITY.

The *Contractor* shall:

- Separate hazardous or non-hazardous waste and where practical, waste for recycling prior to disposing thereof.
- Minimize the amount of waste generated or released, whether it is hazardous or non-hazardous waste, as far as possible to reduce the impact on the Environment.
- Dispose all waste generated, albeit hazardous or non-hazardous waste in a responsible manner and submit proof of all disposal documents to the *Project Manager*.

## 5. PROJECT MANAGEMENT

During tendering stage, a *Contractor* shall provide a project plan including at least the following:

- Project phases.
- Time schedule.
- Approach methodology
- Responsibilities by the *Contractor* and client.

## 6. TAKE OVER PROCEDURES

The *Contractor* shall ensure that only after he/she has tested the installation and deemed it safe and issued a certificate of compliance for buildings in the presence of the TNPA electrical Personnel then only take over will happen for the *works*.

The *Contractor* to ensure that the circuit diagrams are submitted to TNPA electrical personnel and handover certificate is signed off.