

DURBAN BBC TERMINALS

Document Title:

SCOPE OF WORK

Project Title:

**Provision of Services for
90kW Danfoss Drive Maintenance**

REVISION 01: FOR QUOTATION

SCOPE OF WORK

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1. Background

Transnet Port Terminals Agriport comprises of sheds, office buildings, the grain elevator and quayside equipment. The quayside equipment comprises of ship unloader, a ship loader and quayside conveyor belts.

The grain elevator is highly dependant on bucket elevator conveyors. These elevators are driven by 90kW motor and gearbox arrangements. The VSD`s for these drives require a major service.

2. Proposed solution and Engineering Work to be Provided

A competent service provider is required to conduct the following:

- Open and fully clean the 7x 90kW Danfoss FC302 VSD`s and 2x 90kW Danfoss soft starters.
- Replace all internal heat sink, door and mixing fans on the VSD`s and internal fans on the soft starters,
- Fully clean and maintain the internals of each VSD panel
- Replace all door fans and install new filters
- Install new panel door rubber seals
- Replace all 7x VSD LCP`s with new rubber seals
- Sweep and wipe clean the MCC floor and walls
- Install a heavy duty, galvanised pad bolt latch on MMC main door
- Replace automatic door closure on MCC main door.

3. Safety

The following safety procedures together with the terminal standard operating conditions are to be always adhered to. No exceptions will be tolerated.

- i. All Technical personnel to be kitted with the appropriate personal protective equipment and to be kept clean all the time.
- ii. Vehicles used to be fitted with rotating flashing light and proper company signage when accessing the terminal.
- iii. All Technical personnel that are required to operate equipment must be certified to do so.
- iv. All and any TPT owned equipment or property before exiting the terminal should be signed off by TPT representative.
- v. Mess and ablution facilities provided and must always be kept clean.
- vi. All discipline irregularities will not be condoned. Offenders will be requested to leave the terminal immediately pending a full investigation.
- vii. Notification of arrival will be mandatory.
- viii. All work done within Transnet substations should be done under the supervision of an A-Brown qualified Transnet employee where relevant work and safety permits are issued by "CONTROL".

4. Operating hours

The Durban BBC terminals operate 24 hours a day. The infrastructure maintenance team mainly works a day shift (06h45 – 15h15 weekdays) and all work should be done during this period. Any work requiring irregular hours should be communicated timeously to a TPT representative and required approvals obtained.

5. Access Permits

Site meeting:

For the site meeting, all suppliers are required to bring with them the following in order to apply for the required permit:

- Hardcopy of the RFQ;
- Proof of identification for all employees attending;
- Letter from the relevant company stating the names and surnames of the employees requesting access and reason for access;
- Minimum PPE. Safety vest, COVID mask, hard hat and safety shoes;
- Suppliers are advised to bring any/all required measuring tools for proper pricing.

Conducting the work:

In order to acquire access permits for conducting work, external contractors will need to attend safety induction (valid for a year). Safety would also advise for submitting a safety file. Thereafter application for permits from security can be submitted. For vehicle access, all vehicles are required to have a company sign and a revolving light and access will also be applied for at the security office.