DURBAN POINT MPT

Document Title:
SCOPE OF WORK

Project Title:
EH170U TEST BENCH SCOPE OF WORK

REVISION 00:

1. INTRODUCTION

Transnet Port Terminals BBC, Terminals is a material handling facility that imports and exports bulk cargo, containers and auto units. TPT MPT DBN utilizes various Equipment to load and offload cargo which are Mobile Harbour Cranes, Spreaders, Reach Stackers, Haulers, Trailers, and Forklifts etc.

2. EMPLOYER OBJECTIVE

The employer's objective for this project is to conduct repairs on two Bromma Spreader Test Bench EH170U as per the detailed scope of work below.

3. EH170U TEST BENCH SCOPE OF WORK

The contactor MUST conduct repairs as per the OEM Specifications.

3.1. Structure

3.1.1. Refurbish structure, sandblast and paint.
3.1.2. Stainless steel plate with engraved commands/indications.

3.2. Install all mechanical and electrical components.

3.2.1. Tripple pole circuit breaker
3.2.2. 2x Double pole circuit breaker
3.2.3. Contactor
3.2.4. Isolator
3.2.5. ODU plug
3.2.6. Terminals
3.2.7. Transformer (2.6KVA)
3.2.8. Four x Castor 360^0 turning wheels with brakes.
3.2.9. Emergency stop
3.2.10. Buttons, selector switches, led lamps.
3.2.11. 4x Panel locks

3.3. Commissioning

Cold_Commissioning will include functional testing of the completed test panel prior to handing over MPT.

Hot Commissioning will include fitting the fully tested electrical panel onto spreader in MPT.

4. INFORMATION TO BE SUBMITTED

A data package will be supplied by the Contractor. The package will include all documentation and not limited to the ff:
Electrical drawings (laminated and soft copy)

5. HEALTH AND SAFETY REQUIREMENTS

- The contractor shall comply with Transnet Port Terminals Healthy and Safety Environmental Specifications: Operations – SHE Contractor Specification SHERQ PRO 021.
- The contractor shall ensure that Permit to work before commencing any work within the premises of TPT.
- The contractor should ensure that the Hot Work Permit is signed before commencing any hot work within TPT premises.

6. TECHNICAL EVALUATION

The contractor must ensure that all documents requested on Annexure B are submitted together with the quotation.

7. EMPLOYER'S STANDARDS AND SPECIFICATIONS

- EEAM-Q-002: Hydraulic equipment.
- EEAM-Q-004: Greasing, shaft, bearings, brakes, lubrication, vee-belts, keys, and keyways.
- EEAM-Q-006: Structural steelwork.
- EEAM-Q-008: Corrosion protection.
- EEAM-Q-009: Quality management.
- EEAM-Q-013: Commissioning and hand over Rev 1.
- ANSI/AWS D1.1: Structural welding code – steel.
- BS-EN 287 Part 1: Approval testing of welders/fusion welding
- BS-EN 288 Part 3: Specification and approval of welding procedure for metallic material.
- BS 5135: Metallic arc welding of carbon and carbon manganese steels.
- BS 4360/SABS 1431: Weldable structural steel.
- BS 3923: Methods for ultrasonic examination of welds.
- BS 2600: Radiographic examination of fusion welded butt joints in steel.
- BS 5493: Code of practice for protective coating of iron and steel structures against corrosion.
- DIN 1026: Metric channels.
- ISO R657: Angles.
- SANS 094: The use of high strength friction grip bolts and nuts
- Sans 135: ISO Metric bolts, screws, and nuts (hexagon and squares) (Coarse threads and free fit series).
- SANS 136: ISO Metric precision hexagon-head bolts and screws, and hexagon nuts (coarse thread medium fit series).
- SANS 064: Preparation of steel surface for coating.