

## MANTAKRAF CROSS CONVEYOR GEARBOX OVERHAULING

### 1. The Scope of Work

#### 1.1. Removal of gearbox

- 1.1.1. Boom conveyor gearbox to be overhauled.
- 1.1.2. Remove the gearboxes from the Shiploader.
- 1.1.3. Contractor will have to arrange and clean the area if necessary for hot work permit.

#### 1.2. Gearbox overhauling

- 1.2.1. Strip the shafts for purpose of replace all seals
- 1.2.2. Replace all bearings
- 1.2.3. Replace all seals and gaskets
- 1.2.4. Replace worn-out input shafts.
- 1.2.5. Dress all components to be used.
- 1.2.6. Replace keys, fasteners, plugs, and sight glass
- 1.2.7. Perform crack detection testing (NDT) on casing, shafts and gears to be re-used.
- 1.2.8. Line bore housing and repair all shaft seal journals
- 1.2.9. Repair worn input and output shafts
- 1.2.10. Fill unit with the test oil and test run gearbox on test bench rig verified by TPT personal
- 1.2.11. Blast prime paint gearbox to TPT specifications
- 1.2.12. Provide full detail report of replaced parts.
- 1.2.13. Use OEM or SABS parts
- 1.2.14. Deliver all replaced part to TPT.

#### 1.3. Gearbox installation

- 1.3.1. Install repaired gearbox.
- 1.3.2. Conduct laser alignment.
- 1.3.3. Function test conveyor after gearbox installation.
- 1.3.4. All gearbox work shall be completed within 5 days inclusive weekends/holidays (removal, off-site work, logistics, and installation & commissioning)

**All works shall be as per existing and all dimensions shall be confirmed onsite**

### 2. General Service

- 2.2.1 All Structural components must be full painted according to Transnet specification
- 2.2.2 All fasteners on the repaired portion must be HT and hot dip galvanised.
- 2.2.3 TPT to supply rigging services for onsite work.

**NB.** Any deviation from this scope should be authorised by TPT management before work can be carried out.


### 3. Specifications

Quality Management Specification for supplier	EEAM-Q-009 (Rev. 0)
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## 4. Authorization Signatures

**Compiled by:**

 26/08/2024

Mndeni Mthethwa  
Engineering Technician

**Approved by:**

 26/08/2024

Mondli Xaba  
Engineering Manager