

PE MULTI-PURPOSE TERMINAL

DOCUMENT TITLE:
SCOPE OF WORK
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Repair C Reclaimer slew gearbox X1 (SEA side)

Document control

	Name	Title	Signature	Date
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1. PURPOSE

The purpose of this SOW is for strip, repair and fit C Reclaimer slew gearbox x1 (SEA side).

2. PE MPT BACKGROUND

Port Elizabeth Multi-Purpose Terminal (PEMPT's) core business is to import and export dry bulk cargo manganese ore. This is accomplished with terminal infrastructure such as rail wagon tippler, feeders, conveyor belts, storage facilities and ship-loaders and a network of machine mobile equipment such as excavator, sky jacks, cherry pickers and bulldozer. The reclaimers are one of the key equipment on the shipping side as they are used for scooping the ore from the bin on to the shipping conveyor belts.

3. OBJECTIVE

The main objective of this SOW is for strip, repair and fit C Reclaimer slew gearbox X1 (SEA side).

4. SCOPE OF WORK

4.1. Strip, service repair and fit back C Reclaimer slew gearbox X1 SEA side

- Position machine in such a way it will not topple in prep for removal of the slew gearbox.
- Scotch the upper deck such that wind cannot blow the machine and force it to slew.
- Strip the slew gearbox from the machine in preparation for service (the service scope should include the following as a minimum)

- Service of all bearings, supplier to ensure that the correct bearings are used as per OEM OR drawings and gearbox specifications
- Replacement of all oil seals
- Perform a full crack test or analysis on the output shafts of the gearbox.
- Repair, machine and fit x1 slew pinion.
- Repair and fit x2 locator plate / rings for the gearbox output.
- Install the newly refurb gearbox.
- Strip out all added components to secure the upper deck to be free.
- Commission and hand over the machine.
- Ensure that the encoder mountings are fitted back and in working condition.

Gearbox specifications

- Repair x1 output sections as per drawings
 - **PARAMAX® 9000 Series Reducer**
 - **TYPE PVD9075R-LL-280**
 - **Serial number H9081246**

5. TPT REQUIREMENTS

Services as outlined in the scope of work within specified lead

5.1 Lead time

The service provider will be given a lead time 8days for delivery of the services requested after received the Purchase order from our procurement department.

The service provided is expected to keep the teams onsite until the last day of the shut

Please note that cleaners are required to stay for the full duration of the shut, for the purpose of cleaning areas around the chutes and between the lines.

5.2 Quality control plan (QCP)

Contractor shall submit full QCP indicating all important points during execution of all planned activities (QCP to cover at least the following points: all hold, inspection, control, witness, verification, surveillance, test and test points).

5.3 Guarantees and warranties

TPT requires a 12-month warranty on all work done from the day of commissioning.

5.4 Project Plan:

Contractor to provide project plan before commencement of work. Contractor to show that the work is to be completed in 8 days. Plan is to be updated daily and presented at the daily 7am shut meeting.

6. Contractor to provide the following documents before starting the work.

- Quality control plan for the tasks
- Project Plan
- Indication of resource planning as per request.
- Letter confirming contractor will adhere to the shut down time frame and scope
- Letter confirming that contractor will provide TPT with a 12-month guarantee
- Letter confirming that contractor will adhere to the lead time as per requirements.
- Comprehensive risk assessment to be provided.

7. TPT to provide the following

- Any Rio-Carb liners.
- Any Rio-Carb welding rods.
- Any Rubber Skirting.
- Any standard Steel Plate
- Any Standard bolts and nuts
- Gate access to the port and ore plant
- Space for contractor site establishment

8. Contractor shall provide the following

- Services as outlined in the scope of work
- Provide their own general rigging and lifting gear needed to perform tasks.
- All lifting gear and rigging equipment shall be safety certified.
- All electrical tools shall be safely checked and certified on a regular basis.
- Contractor shall practice “good housekeeping” and leave the site clean and tidy.
- Contractor to bring its own cleaning team to perform all cleaning duties required to perform all the activities as indicated on the resource requirements
- Contractor shall bring own means of storage for all tools and consumable needed for the period of the shut
- Contractor is expected to be flexible to allow in case Transnet identify a more critical area than what is required as per the scope.
- All material needed to complete the job

9. Safety related items:

- Prior to start of the work a comprehensive safety file needs to be submitted to the TPT RISK Manager for approval.
- If scaffolding is to be used, it must only be erected under the supervision of a certified person.
- As part of the safety file, a comprehensive risk assessment must be included for approval.
- All related test and inspection certificates of all lifting used must be submitted prior to the commencing of work activities.
- All artisans used must be qualified artisans – proof of qualifications to be included in safety file a copy to be submitted with a quote.
- Area of work activities must be suitably barricaded and signposted with company names and responsible people to prevent unauthorized access.

10. Safety file requirements:

- Annexure A attached.

11. Environmental Requirements:

- Annexure B attached.