



# **SCOPE OF WORKS FOR ROOF REPAIRS, GUTTER AND DOWNPIPES WITHIN TRANSNET ENGINEERING, SOUTH DUNES.**

**SOUTH DUNES, WORKSHOPS**

**REFERENCE NO.:**

**Date of release:**

**Rev 01**

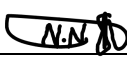

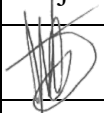
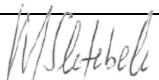
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## 1. DOCUMENT AUTHORITIES

Department	Wagons, PEMM
Department Affected	Wagons
Effective date	July 2024
Compiled by	Nomfundo Shoyisa
Designation	Civil Engineering technician
Signature & Date	
Reviewed by	Thamsanqa Mtolo
Designation	Civil Engineering technician
Signature & Date	
Reviewed by	Stanley Mchunu
Designation	Project Manager
Signature & Date	 29.07.2024
Approved by	Simon Makwele
Designation	Plant Engineer
Signature & Date	 02/08/2024

## **2. EXECUTIVE OVERVIEW**

Transnet Engineering is an engineering division of Transnet SOC Ltd, comprising of a group of product focused businesses in manufacture, upgrading, conversion, repair, and maintenance of railway rolling stock as well as spares and associated transport equipment.

The workshop's roof and gutter system is in disrepair, posing a significant risk to the buildings integrity and occupant safety. The gutters are loose, downpipes are outdated, and the roof requires waterproofing. The earthing wire is loose, and the ventilation system needs to be installed. If left unaddressed, these issues will lead to further damage and safety hazards. Prompt action is necessary to ensure the safety and integrity of the workshop.

Transnet Engineering has proposed to install the identified workshops.

## **3. EMPLOYER'S OBJECTIVE**

The purpose of the project is to restore the roof and upgrade the ventilation system of the main workshop, ensuring a safe, dry, and well-ventilated environment for occupants and assets.

## **4. DESCRIPTION OF SERVICES**

Resecuring of existing gutter, replacement of downpipes, seal roof sheet holes with a membrane and apply waterproofing, install ventilation units and secure existing ones to ensure a watertight and well-ventilated roof.

## 5. TECHNICAL REQUIREMENTS

**The main deliverables would be as per the scope of works, in summary, to be carried out is as follows and to be read in conjunction with part C3 of the scope of works:**

No.	SCOPE OF WORK
<b>A</b>	<b>MAIN WORKSHOP</b>
<b>B</b>	<b>REMOVING AND RE-INSTALLATION OF SHEETS</b>
1	Remove solid roof sheets and replace with transparent heavy duty corrugated roof sheets.
2	<b>Note:</b> all removed roof sheeting to be reserved to replace all damaged roof openings and damaged side sheets. <b>Note:</b> the height of both roof and side sheet is 5m. A total number of 5 side sheets is required. 160 heavy duty transparent sheets are required.
<b>C</b>	<b>ROOF WATERPROOFING</b>
3	Inspect the roof and identify all holes and gaps in the roof sheets. Seal all holes and gaps with a suitable membrane and waterproofing material. Make any necessary repairs to the roof to ensure a watertight seal.
<b>D</b>	<b>GUTTER RE-INSTALLATION</b>
4	Re-install all gutters, ensuring proper slope and secure attachment to the building.
<b>E</b>	<b>DOWNPIPES REPLACEMENT</b>
5	Remove existing downpipes and dispose the properly. Install 1,7×1,7cm new aluminium downpipes which is 6m in length, ensuring secure attachment to the building and proper connection to the gutter system.
<b>F</b>	<b>SHUTTER BOARDS</b>
6	Install 2 aluminium shutter boards, 12m in length.
7	Resecure all earthing wire and clamps.
<b>G</b>	<b>VENTILATION REPLACEMENT</b>
	Install 8 new ventilation units, ensuring secure attachment to the roof. Resecure the existing ventilation units to ensure a tight seal.
<b>H</b>	<b>BREAK TESTING WORKSHOP</b>
8	Resecure all earthing wire and clamps.
<b>I</b>	<b>ROOF WATERPROOFING</b>
9	Inspect the roof and identify all holes and gaps in the roof sheets. Seal all holes and gaps with a suitable membrane and waterproofing material. Make any necessary repairs to the roof to ensure a watertight seal.
<b>J</b>	<b>REMOVING AND RE-INSTALLATION OF SHEETS</b>
10	Remove 30 solid roof sheets and replace them with 30 heavy duty transparent sheets.
<b>K</b>	<b>PAINTING WORKSHOP</b>
11	Resecure all earthing wire and clamps.
<b>L</b>	<b>ROOF WATERPROOFING</b>
12	Inspect the roof and identify all holes and gaps in the roof sheets. Seal all holes and gaps with a suitable membrane and waterproofing material. Make any necessary repairs to the roof to ensure a watertight seal.
<b>M</b>	<b>VENTILATION REPLACEMENT</b>
13	Install 12 new ventilation units(20m), ensuring secure attachment to the roof. Resecure the existing ventilation units to ensure a tight seal.
<b>N</b>	<b>SHUTTER BOARD</b>
14	Install 1 aluminium shutter board, 12m in length.

## **6. HEALTH AND SAFETY REQUIREMENTS**

- 6.1 All equipment and installation whether detailed in this specification or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended and all other applicable legislation including specific set of regulations and local authority bylaws where applicable.
- 6.2 The contractor shall hold monthly safety meetings with staff and records of minutes. shall be kept on file on site.
- 6.3 The contractor shall be available for monthly meetings with Transnet Management. A schedule for these meetings may be agreed upon.

## **7. SHE SPECIFICATION**

- Prior to commencement of contract, the contractor shall be issued with a SHE specification to compile a SHE files in line with TE requirements.
- Prior to establishing on site, it is an explicit requirement of this contract that all the Contractor's personnel directly involved with this contract, including those of sub-contractors, attend a Safety induction course. Transnet will provide the course free of charge and attendance is compulsory for all personnel under the control of the Contractor who, during the duration of the contract, will be present on site whether on a full time or adhoc basis.
- The contractor must allow for all additional charges because of these requirements as no claims for extras will be accepted in connection with the foregoing.

## **8. AS PART OF THE LEGISLATIVE AND TE SHE REQUIREMENTS.**

- The successful contractor is required to conduct a Risk assessment to ascertain all potential risks associated with this project. The completed risk assessment is to potential risks associated with this project. The completed risk assessment is to be formally submitted to the Risk department via the project manager at least two weeks prior to the commencement of the actual project.
- A safety file and associated documents will be required from a successful tenderer, and such will be communicated by the Risk department.