



**SUPPLY, DELIVERY AND REPAIR OF
DAMAGED ROOFS IN DURBAN AND
RICHARDS BAY DEPOTS FOR TRANSNET
ENGINEERING.**

**311 SOLOMON MAHLANGU DRIVE,
ROSSBURGH.**

REFERENCE NO.: MPE_DBN_SPEC_042

Scope Revision: 0

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Signature of Bidder/s: _____

Date: _____

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Signature & Date	 22/09/2022

Signature of Bidder/s: _____

Date: _____

1. INTRODUCTION / SCOPE OF WORK

This specification is for the:

#	TASK	REQUIRED
1	Assessment	
2	Design	
3	Cleaning	✓
4	Supply	✓
5	Installation / construction	✓
6	Delivery	✓
7	Documentation	✓
8	Repair	✓
9	Training	
10	Commissioning	

Of the specified:

#	ITEM	REQUIRED
1	Supply, delivery and repair of damaged roofs in Durban and Richards Bay Depots.	✓
2	Submission of project completion documents.	

Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering at tender stage and optional prices for addressing such omissions must be provided.

- **This specification states the minimum requirements relating to the project and in no way absolves the contractor from the responsibility for sound engineering practice.**
- **All replaced components (metal parts) shall become a TE property.**
- **No drilling or welding on TE structure, only TE approved attachment methods may be used.**
- **THE CONTRACTOR TO NOTE THAT THE FOLLOWING MATERIALS SHALL NOT BE REMOVED FROM TRANSNET ENGINEERING PREMISES DURING AND AFTER THE IMPLEMENTATION OF THIS PROJECT: COPPER, BRASS, ALUMINIUM, STAINLESS STEEL, STEEL ROLLER DOORS, CABLING, CABLING CUT-OFFS, BUSSBARS, TAP OFF BOXES, MOTORS, GEAR BOXES, CONTROL BOXES, TRANSFORMERS, TRANSFORMER AND MOTOR WINDINGS AND ALL OTHER METALS.**

2. SITE INSPECTION

- 2.1 All prospective contractors shall be required to undertake a compulsory site inspection to fully acquaint themselves with all aspects involved.
- 2.2 Arrangements to visit the site and confirmation of the date and time of the site inspection shall be made with Transnet Engineering Contract Manager.

Signature of Bidder/s: _____

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- 2.3 The site inspection certificate shall be completed and countersigned by the Contract Manager on the day of the visit and must be submitted with the tender documents.

3. INFORMATION REQUIRED

- 3.1 Offers will not be considered unless full particulars and sufficient literature are provided at the tendering stage to enable Transnet Engineering Technical Officers the opportunity to assess each technical offer properly.
- 3.2 Prospective Contractors will complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the specification
- 3.3 Should there be insufficient space for furnishing full details; contractors shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.
- 3.4 As prospective contractors are considered to be experts in their field, they are obliged to identify any shortcomings, such as omissions or sub-standard requirements, to the completeness of this specification. These must be brought to the attention of Transnet Engineering at tender stage with alternatives to address these shortcomings. However, each offer shall be quoted for separately.

4. TECHNICAL REQUIREMENTS

The work must be done in accordance with (but not limited) the following legislations regulations and standards:-

Occupational Health and Safety Act and Regulations 85 of 1993.

SANS 10400-L The application of the National Building Regulations Part L: Roofs purlin, rafters, roof, truss, waterproofing.

- 4.1 Except where otherwise provided for in the specification, all materials offered will comply with the requirements of the relevant standard specifications of the SABS or SANS, if published.
- 4.2 Where materials offered complies with the recognized standards of the country of manufacture and not specifically with the standards required by this specification, such materials will be considered at the discretion of Management. In this case, tenders shall state fully all respects in which the materials departs from the standard laid down in this specification.

5. SPECIFIC REQUIREMENTS

Any person with the intention of procuring the material shall ensure that the information below is complied with. The specification requirements are binding.

5.1 Environment

- Indoors and outdoors

5.2 Supply and Delivery

- The materials shall be supplied and delivered at the sites of works.

Signature of Bidder/s: _____

Date: _____

5.3 Scope of work

Item no.	<u>REQUIREMENTS</u>	Complying Yes (if complying) No (if not complying)
5.3.1	<p>Supply and deliver all required materials to repair roofs of the following workshops:</p> <p><u>Richards Bay</u></p> <ul style="list-style-type: none"> Shedding workshop – Insezi locomotives. Main workshop - Insezi wagons. Main workshop, electrical side – Insezi loco. Main workshop – South Dunes. Break testing workshop – South Dunes. Line 8 and 9 workshop – South Dunes. Diesel shedding and main workshop locomotives. <p><u>Durban</u></p> <ul style="list-style-type: none"> Bay 8; towards traverser B end (Re: Guy). Bay 7; leaks from the windows up top (Re: Tinus). Bay 9; various spots (Re: Craig, Roxanne). A4; office 6, 5, 4, 3, 2, toilets (Re: Anton). A39; Toilet area (Re: Anesh). Bay 19; receiving area and towards the middle of the bay (Re: Philisiwe). Bay 18; next to Thuli's office (Re: Thuli, Sithole). Bay 16; next to the measuring table (Re: Thuli, Sithole). Shotblast booth (Re: Sipho). Bay 22; towards the spray-booths (Re: Sipho). Bay 51 and Bay 52. Administration block b (PEMM boardroom, Zolani's office, Assets office and Thabo's office). Main guard house. ELD, RM and Coil shop. New bay (FOE). <p>The exact damaged areas will identified on site and the list (in a spread sheet format) will be sent to the bidders.</p> <p>This scope of work shall be read with Annexure 1 (Transnet Engineering Safety, Health and Environmental Management specification).</p>	
5.3.2	<p>Align the misaligned roof sheets, tighten, screw on, install roof vents (including ridging vents), install IBR roof sheets, seal, etc.</p> <p>In areas where there is damaged asbestos roof, replace such damaged areas with fibre cement, having profile that is same as old asbestos.</p> <p>In areas where there is damaged IBR sheets roof, replace like with the like.</p> <p>Ensure that all flashings are repaired and sealed.</p> <p>Use stainless steel or galvanised nails.</p>	
5.3.3	<p>Check and secure all loose ridge capping. 25mm stainless steel tek screws (allow for 100 tek screws for each bay) and washers shall be used.</p> <p>Allow for 10m PVC mesh for air vents to prevent birds from coming inside the bays.</p> <p>Seal all areas that are open, emanating from previous installation of pipes for air conditioners.</p>	

Signature of Bidder/s: _____ Date: _____

Item no.	<u>REQUIREMENTS</u>	Complying Yes (if complying) No (if not complying)
5.3.4	Clean, reinstate the water drains. Clean, supply and reinstate gutters and downpipes. Supply and install rust proof grating (able to withstand 8 ton weight), align with ground level to enable vehicles to easily move in and outside the bays. Proof of tonnage capacity of grating shall be submitted.	
5.3.5	All excess materials shall be handed over to Transnet Engineering on completion. All replaced materials shall be handed over to Transnet Engineering on completion.	
5.3.6	The contractor shall provide all tools of trade to start and finish works, without asking Transnet Engineering for any assistance. Transnet will not offer any assistance.	
5.3.7	The majority of tasks will be done at heights, personnel to work at heights shall each have certificates enabling to work at heights. Certificates shall be submitted to Transnet Engineering before commencement of the project.	
5.3.8	The contractor shall comply with the Transnet health and safety requirements. It shall be noted that the project will commence on the day of issuing of appointment letter, submission and approval of health and safety file is included in the tender period.	
5.3.9	The works shall have 24 months warranty on materials and workmanship, any leaks occurring after project completion shall be attended by the contractor within 24 months warranty period.	

5.4 Testing

- All prescribed tests shall be carried out on equipment.
- TE also reserves the right to carry out any check tests on the equipment.
- Notwithstanding the successful completion of tests, the contractor will still be responsible for the efficient operation of the equipment.
- **A testing period of 1 month (744 hours for 24/7 shifts and 248 hours for 8 hour shifts) this shall depend on what shift the business requiring the specified works. Confirmation shall be given on site visits and captured minutes.**
- **No work will be accepted by Transnet without the satisfaction of the conditions above.**

5.5 Warranty

- **The warranty shall be for 2 years.**
- **Any latent defects that become apparent during the warranty period shall be rectified to the satisfaction of Transnet Engineering at the cost of the supplier.**
- Specify the commencement of warranty period.

6. OTHER INFORMATION RELATED TO THE SCOPE

- 6.1 This specification states the minimum requirements relating to the work and in no way absolves the contractor from responsibility for sound engineering practice. Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering at tender stage and optional prices for addressing such omissions must be provided.

Signature of Bidder/s: _____

Date: _____

- 6.2 Any matter relating to this work, which requires a decision from Transnet Engineering shall be presented to the Project Manager in charge.
- 6.3 All offers shall be completed in every respect with this specification. Only completed tenders shall be considered
- 6.4 The Technical Officer reserves the right to have the proposal checked independently by a third party.
- 6.4 Tenders must allow for monthly progress and clarification meetings on site initially and after commissioning for defect meetings when required. A meeting will be held after issuing of the tender to establish the exact scope and magnitude of the contract. No tender will be considered unless it has this certificate signed by the Engineer or his representative.

7. HEALTH AND SAFETY REQUIREMENTS

- 7.1 All repair work whether detailed in this scope of work 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.
- 7.2 All the necessary safety equipment such as guards over rotating equipment shall be supplied and the equipment shall comply fully with all the requirements of the South African Occupational Health and Safety Act, Act 85 of 1993 and all other applicable legislation including specific set of regulations and local authority bylaws where applicable. At all times during the manufacture, assembly and testing of the equipment the contractor will be responsible for the safety of all persons on site and the equipment.

7.3 SHE SPECIFICATION

Prior to commencement of contract, the contractor shall be issued with a SHE specification in order to compile a SHE file in line with TE requirements.

Prior to establishing on site, it is an explicit requirement of this contract that all of 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.

7.4 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 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.

8. SPECIALIST SUB-CONTRACTORS

- 8.1 Only specialist sub-contractors who have previously successfully completed work of the type and extent specified in this document should be engaged. The tenderer shall provide the technical officer with sufficient proof of having suitable experience regarding the design and manufacturing of similar equipment.

Signature of Bidder/s: _____

Date: _____

To this end, complete and detailed reference list shall be submitted with the tender. Reference list shall include addresses as well as contact person who may be visited for inspection of the equipment during the adjudication period.

- 8.2 The tender shall submit a complete list of proposed sub-contractors and suppliers of major components with his tender.
- 8.3 The tenderer shall be prepared to commit themselves in writing to the technical officer with an adequate, experienced and stable project team for the duration of the contract.
- 8.4 Transnet Engineering will not consider any Tenderer's offer that, in the sole opinion of Transnet Engineering, does not have adequate experience in the design and manufacture of such equipment / product.
- 8.5 Contractors shall do the bird removal work simultaneously with other contractors on-site busy with other work and shall plan work that it integrates with other work performed.

9. MATERIAL AND WORKMANSHIP

- 9.1 The equipment shall be offered complete in all respects, including all standard accessories normally offered by manufactures, all of which shall be specified in detail.
- 9.2 The equipment, as made and supplied, shall be complete in every respect, of modern design, using the most advanced proven technology extensively supported by reputable local companies, and be built to good engineering practices.
- 9.3 All equipment shall be adequately protected against damage and contamination during shipping, transport and storage.

10. GENERAL REQUIREMENTS

Operation will be in the following conditions:

Altitude	Sea level
Ambient temperature	0°C to 45°C
Relative humidity	50% to 100%
Atmosphere	Heavy saline

- 10.1 Tenderers shall indicate clause-by-clause either that they comply in every respect with the specific requirements, or if not, exactly how it differs.

11. DEFINITIONS AND ABBREVIATIONS

CLIENT	Transnet Engineering Durban
TECHNICAL OFFICER	Project Manager, Transnet Engineering Durban
CONTRACTOR	Contractor appointed under this specification document
SABS	South African Bureau of Standards
SANS	South African National Standard
ISO	International Organisation for Standardisation

Signature of Bidder/s: _____ Date: _____

12. GENERAL

- 12.1 The successful tenderer will be subjected to a workshop inspection by Transnet Engineering, to ensure that the facilities are to the satisfaction of the Transnet Engineering in terms of the quality control and equipment capabilities for manufacturing such type of equipment.

13. SITE ESTABLISHMENT

- 13.1 The contractor shall be solely responsible for safety of his staff and for providing security to safeguard his works and material on site, until such a time.
- 13.2 The contractor shall be required to attend site meetings when convened by the Project Leader controlling the contract.
- 13.3 The contractor will be responsible for any damages caused by his staff to the building and civil works on site.

14. PENALTY CLAUSES

- 14.1 Due to the criticality of this project, penalties will be levied for late deliveries.

15. CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB) REGISTRATION

The Tenderers to be appointed under this Project must be registered with the **CIDB Grading of 1GB or HIGHER** registration, Potential suppliers can also tender to this project. Transnet Engineering does not award Projects to any company without proof of this registration.

Signature of Bidder/s: _____

Date: _____

TRANSNET LIMITED
16. SCHEDULE OF PRICES:

All prices **exclude Vat** and additional items listed (with prices) shall be clearly labelled as optional or essential.

Item	Qty	Price per item	Price
		R	R
Total (Excl. VAT) to tender form			R

Tenderer: _____

Date: _____

Witness 1: _____

Date: _____

Witness 2: _____

Date: _____

Signature of Bidder/s: _____

Date: _____

17.TENDER EVALUATION CRITERIA

The following criteria will be used to award the tender. Should there be a criteria over and above the listed below, that will be used, such criteria will be specifically stated.

No.	<u>Pre-Qualification Criteria</u> TECHNICAL DESCRIPTION (The technical evaluation will be used as a threshold. All bidders who do not meet the minimum threshold of 70 points will not proceed to the final stage of evaluation.)	Weightings
17.1	Project Plan and Final Lead time 1.1 Project Plan final Lead time equals/less than 5 weeks – 25 points 1.2 Project Plan final Lead time more than 5 weeks but equal/less than 6 weeks – 15 points 1.3 Project Plan final Lead time greater than 7 weeks – 5 points (Note: Project Plan must be submitted in either excel or MS project format)	25 points
17.2	Compliance to scope of work 2.1 Comply to scope of work – 30 points 2.2 Non-compliance to scope of work (including not completed) – 0	30 points
17.3	Specific knowledge relating to projects of this nature 3.1 Previous experience for roof work (e.g roofing the buildings, repair work on roofs, etc.) (only completed projects) in the past 6 years, with contactable references Bidders to attach reference letters (in letterheads) from previous clients. 3.1.1 4 or more submitted letters– 45 points 3.1.2 3 submitted letters – 35 points 3.1.3 2 submitted letters – 25 points 3.1.4 1 submitted letters – 15 points 3.1.5 0 submitted – 0 points	45 points
Total Weighting: Minimum qualifying score required:		100 points
		70 points

The minimum threshold for Bidders to meet is 70 points for the Bidders to go through the Commercial Calculator.

Signature of Bidder/s: _____

Date: _____

18.COMPLIANCE VERIFICATION

ITS IS MANDATORY FOR ALL THE SUPPLIERS/BIDDERS TO COMPLETE THIS FORM. AN INCOMPLETE FORM WILL RESULT IN DISQUALIFICATION.

No.	Heading/Subsection	Comply			Comment
		Yes	No	N/A	
4.	Technical Requirements				
5.	Specific requirement				
5.1	Supply and delivery				
5.2	Environment				
5.3	Scope of work				
5.5	Warranty				
8.	Health and safety requirements				
14.	Penalty clauses				
15	CIDB requirements				

TENDERERS: PLEASE NOTE THAT YOUR TENDER WILL BE REJECTED IF ANY OF THE ABOVE ITEMS ARE OMITTED OR NOT FILLED.

Signature of Bidder/s: _____

Date: _____