



SCOPE OF WORKS FOR BAY 48 TO 52 OVERHEAD DOWNPIPE DRAINAGE REPAIRS

DURBAN MAIN CENTRE

REFERENCE NO.: FAI_DBN_SOW_245

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Signature of Bidder/s: _____

Date: _____

Document Authorities

Department	Facilities and Infrastructure
Effective date	Jan 2024
Compiled by	Stanley Mchunu
Designation	Construction Project Manager
Signature & Date	 30.01.2024
Reviewed by	Zolani Mngqithi
Designation	Engineering Technician
Signature & Date	 30.01.2024
Approved by	Mhlonipheni Nxumalo
Designation	Executive Manager
Signature & Date	 05/02/2024

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1. INTRODUCTION

This specification is for the:

#	TASK	REQUIRED
1	Design	✓
2	Refurbishment	✓
3	Supply	✓
4	Delivery	✓
5	Repairs	✓
6	Installation	✓

1.1 Scope of Works

REPAIRS TO YARD SINKHOLES AT VARIOUS AREAS AND BAY 48 TO 52 OVERHEAD DRAINAGE MODIFICATION

- This is a fixed value contract so the tenderer shall ensure all the costs are factored into the tendering price.

2. SITE INSPECTION

2.1 Arrangements to visit the site and confirmation of the date and time of the site inspection shall be made with Transnet Engineering Project Manager.

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 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 following regulation and codes must be complied with: -

- The Occupational Health and Safety Act – Act 85 of 1993.

- 4.1 Except where otherwise provided for in the specification, all equipment offered will comply with the requirements of the relevant standard specifications of the SABS, if published, otherwise with the relevant standard of the British Standards Institution in force at the time of tendering.

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Item no.	REQUIREMENTS
5.1.1	Read this scope of work with document number, Annexure 1 (Transnet contractor safety, health, and environmental management specification guidelines TRN-IMS-GRP-GDL-014.2).
5.1.2	The service provider is required to submit a SHE Contractor Compliance file at their own cost (Index to be provided to the successful service provider); - This file shall be submitted after the Purchase Order has been issued, not at tender stage.
5.1.3	<ul style="list-style-type: none"> • The appointed contractor shall note that this is a minimum specification for a Repairs to yard sinkholes and workshops including roadworks at various areas. • All site operations the relevant legislation and guidance on matters pertaining to safety must be strictly adhered to, as well as labour, transport, tools, and all other items required to start and complete this project is a responsibility of a successful contractor.
5.1.4	All materials shall be SABS approved.
5.1.5	The works (workmanship and materials) shall have a warranty and a provision for emergency for damaged.
5.2	BAY 48 TO 52 OVERHEAD DRAINAGE MODIFICATION
5.2.1	<p><u>INSTALLATION OF OVERHEAD STORMWATER DISCHARGE PIPES</u></p> <p>The contractor shall check the existing connection manhole before commencement. The contractor shall commence the setting out at such point from manhole to manhole with wooden peg indicating the invert level.</p> <ul style="list-style-type: none"> • The survey shall be done for the existing line and new overhead line. Survey & inverts level results shall be submitted to the project manager prior to installation. • New overhead line shall be 200mm: PVC Pipe, PN10 (800m). • Bends and fittings shall be fitted where required; test pipes complete with couplings: • All fittings must be provided with pipe couplings as prescribed by manufacturers. Class of fittings to suit pipe. • Repairs to the existing rainwater gutters and downpipes. • Intercepting the downpipes with a min 200mm: PVC Pipe, PN10 (800m). • Remove excess downpipes and store in area allocated by TE within the plant. • Construction of mounting brackets shall be installed be installed at intervals that will support the full weight of the pipe including the water that will flow through without sagging. • No drilling or welding allowed on the existing structure or columns
5.2.2	<ul style="list-style-type: none"> • Installation of holderbats to all downpipes shall be used. The Engineer shall approve a method of installation. • Connect to the nearest stormwater pipe/manhole on both ends (front and rear) <p>- <i><u>NB: Areas to be shown on site during briefing session.</u></i></p> <p>Surface beds and layer works shall be replaced with new borrowed material suitable for the PVC pipes and be compacted as per Engineers recommendations and all soil compaction test shall be confirmed by the Lab.</p>
5.3	<p><u>REPAIRS TO MANHOLES</u></p> <ul style="list-style-type: none"> • Manholes may be constructed of concrete, brickworks, or precast concrete sections and in all types shall be constructed to the dimensions shown on the plans. Where concrete or precast concrete sections are used, the interior wall shall be thoroughly coated with coal tar epoxy. • Joints between precast concrete sections shall be made by uniformly placing "Ram-Nek" flexible plastic gaskets or approved equal on all faces of the lower part of the joint and lowering the upper ring evenly into place to produce uniform bearing and compression on the sealer. • The construction of manholes shall be done as soon as practical after stormwater lines into or through the manhole are completed.

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	<ul style="list-style-type: none"> All pipes shall be cut neatly at the inside face of the walls of the manhole and pointed up with mortar on the existing and new manhole. After the masonry work has been completed to the proper elevation, the cast iron manhole cover frame shall be set in a full mortar bed and adjusted to the elevation established on the drawings. Construct new stormwater manholes, with heavy duty cover and frame, as per the detail given by an Engineer.
5.4	24 months warranty and maintenance shall be included.
5.5	After replacement and repairs the contractor shall clean the area and remove all rubble away from site.

5.6 Where equipment offered complies with the recognized standards of the country of manufacture and not specifically with the standards required by this specification, such equipment will be considered at the discretion of Management. In this case, tenders shall state fully all respects in which the equipment departs from the standard laid down in this specification.

5.7 The successful tender will at the conclusion of the installation provide a document along the lines “that the installation complies with national/international requirements and that all selected /designed items are compliant with Act 85 of 1993 and SABS practices applicable to the installation. The equipment has been commissioned/ calibrated and employees as specified have been trained and found competent to operate the plant.”

6. SPECIFIC REQUIREMENTS

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

6.1 Scope of works

6.1.1 Installation

The success of any repairs to yard sinkholes and workshops including roadworks at various areas requires satisfactory of the Civil Engineer.

6.2 Health and safety requirements

6.2.1 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.

6.2.2 The contractor shall hold monthly safety meetings with staff and records of minutes. shall be kept on file on site.

6.3.3 The contractor shall be available for daily/weekly 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.

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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 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.

9. Requirements for prevention of Covid-19

- a) 1 COVID-19 Safety Plan.
- b) Daily Screening questionnaire.
- c) Return to work induction register- Induction Presentation/TE will also conduct the COVID-19 induction.
- d) COVID-19 Employee questionnaire checklist.
- e) Fitness Certificates.
- f) Risk Assessments register.
- g) COVID-19 PPE issue register/sanitizer.

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