



**SCOPE OF WORK FOR SUPPLY AND
DELIVERY OF FIVE VERTICAL JOJO
TANKS 5000L WITH WATER PUMPS FOR
UITENHAGE PLANT WITHIN TRANSNET
ENGINEERING**

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Signature of Bidder/s: _____

Date: _____

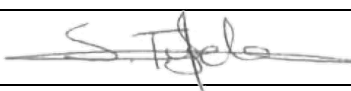

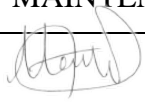

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Document Authorities

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Date: _____

1. INTRODUCTION / SCOPE

This scope of work is for the:

#	TASK	REQUIRED
1	Repair	
2	Refurbish	
3	Supply	✓
4	Installation	
5	Testing	
6	Delivery	✓
7	Documentation	
8	Commissioning	

Of the specified:

#	ITEM	REQUIRED
1	Specification for supply and deliver five Jojo tanks with water pumps for Uitenhage plant.	✓

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

- **This scope of work states the minimum requirements relating to the project and in no way absolves the contractor from the responsibility for sound engineering practice.**

2. SITE INSPECTION

- There is no site inspection, since the supplier must supply and deliver.

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.

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- 3.2 Prospective Contractors will complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the scope of work.
- 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 scope of work.
- 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 scope of work. 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. OTHER INFORMATION RELATED TO THE SCOPE

- 4.1 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.
- 4.2 Any matter relating to this work, which requires a decision from Transnet Engineering shall be presented to procurement.
- 4.3 All offers shall be complete in every respect with this specification. Only complete tenders shall be considered.
- 4.4 Tenderers 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.

5. TECHNICAL REQUIREMENTS

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

The following legislations, regulations and codes must be complied with:-

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- **The Occupational Health and Safety Act – Act 85 of 1993.**
- **National Water Act, 36 of 1998**

5.1 Except where otherwise provided for in the scope of work, all materials offered will comply with the requirements of the relevant standard specifications of the SABS or SANS, if published.

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

6. HEALTH AND SAFETY REQUIREMENTS

6.1 All equipment and installation whether detailed in this specification of not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended by applicable local authorities. All equipment shall be designed to fail to safety. Sudden power losses will not have an adverse effect on equipment and shall not unduly delay return to operation after power is restored.

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. At all times during the manufacture and delivery of the equipment the contractor will be responsible for the safety of all persons on the site and the equipment

7. MATERIAL AND WORKMANSHIP

7.1 Machinery shall be offered complete in all respects, including all standard Equipment normally offered by manufactures, all of which shall be specified in detail.

7.2 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. Tenderers shall supply a list of all the main components (mechanical, electrical etc.) proposed as well as the addresses of the local support companies

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7.3 All parts and components shall be adequately protected against damage and corrosion during shipping, transport and storage.

Should any of the items called for be standard equipment, then the words “Standard Equipment” shall appear against the item.

8. SPECIFIC REQUIREMENTS

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

8.1 Minimum Technical Requirements.

	REQUIREMENTS	Details of offer: Comply (Yes)/ Do not comply (No)
8.1.1	Supply ready mix concrete for Jojo tanks foundations and five vertical Jojo tanks 5000L with auto control pumps and all the accessories for Uitenhage Plant.	
8.1.2	Supply 10m ³ ready mix concrete, 30mpa strength for vertical water tanks. Supply the following items for the Jojo tanks foundations. <ul style="list-style-type: none"> • 10 x SA Pine S5P CCA 38x152, 5.400m • 3 x Welded Mesh Ref 193 200x200, 5.6mm 6.0x2.4m sheet. • 13 x Plastic sheet GP 3.0 x 30m, 150mic Non-SABS (90sqm) 1.0000RL per each. 	

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8.1.3	<p>Vertical Jojo Tank or similar</p> <ul style="list-style-type: none"> • Capacity: 5000L • Material: Virgin LLDPE • Type: Vertical tank • Suitable for water • Diameter: 1820mm • Height: 2255mm • LID: 480mm clip – on • Must have black inner layer to prevents algae growth and keep water fresher for long. • Must be UV resistant algae. • Lids to be secured with spring-loaded e clips as an additional safety measure if the tank overflows. • Warranty: 10 years • Quantity: 5 	
8.1.4	<p>Water Pump Spec</p> <ul style="list-style-type: none"> • P1 Max kW: 1.13kW • P2 normal: 0,75kW, 1HP • Voltage: 220 – 220V, Amps: 5.1A • Operating range: Up to 60 l/min; head up to 47m • Motor suction depth: up to 8m • Liquid temperature range: from 0°C to +35 °C • Maximum operating pressure: 6 bar (600kPa) • Motor protection class: IP 44 • Protection class at the terminal board: IP 55 • Insulation class: F • Dimensions: L x 470mm B x 240mm H x 240mm • Weight: 9.5kg • Quantity: 5 	

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8.1.5	<p>Automatic Water Pump Control Spec</p> <ul style="list-style-type: none"> • Voltage: 220-240V • Current: 10A 50/60Hz • Tmax: 60°C – IP65 • Pmax: 10 BAR • Qmax: 10 m³/h • Art.nr: 4044987 • Quantity: 5 	
8.1.6	<p>Water Cylinder Spec</p> <ul style="list-style-type: none"> • Model: PEB-24LX • Type: MTPE-24-10 • Max. Working pressure: 10 bar • Factory Precharge: 1.9 bar • Test Pressure: 14.3 bar • Connection: 1" BSPT • Normal Volume: 24 Litre • Min. Temperature: -10°C • Max. Temperature: 90°C • Config: MTPE-24XL-100BT-1.9-SSC-CSS-AMD-EW • Quantity: 5 	
8.1.7	<p>PCV Fittings</p> <ul style="list-style-type: none"> • 5 x Valve ball PVC comp thread 1" • 5 x Nipple running nylon 25mm x 120mm • 5 x Socket red nylon 25mm x 20mm • 5 x Bush red nylon 1 ½" x 1" (40x25) • 5 x Valve non return PVC BSP S/Union 1" • 20 x Compression adaptor 32mm x male 1" • 4 x Compression coupler 32mm • 4 x Compression elbow 32mm x male 1" 	

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	<ul style="list-style-type: none"> • 4 x Compression elbow 32mm • 4 x Compression TEE equal 32mm. • Pipe blue 32mm CL16 plain. Length is 30m. 	
	<p>Copper Fittings</p> <ul style="list-style-type: none"> • 20 x Comp elbow CxC 15mm Titan SABS 2020A • 20 x Comp Tee CxCxC 15mm Titan SABS 2020A • 10 x Copper tube 15mm x 5.5m 460/1 • 15 x Ball valve 15mm CxC lever Bonami 5920-15C • 10 x Comp coupler CxC 15mm x Titan SABS 2000A • 10 x Comp couple CxMI 15mm x 1/2in Titan SABS 2001A • 5 x Non return valve 15mm Brass Import. 	

9. GENERAL

- 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.
- The tenderers shall guarantee that the rating and size etc. of the equipment offered, will be adequate to perform the duties required.

10 Warranty

- The warranty for auto control pumps and pressure valves shall be for one year or more.
- 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.

11. PENALTY CLAUSES

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

Signature of Bidder/s: _____

Date: _____

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