

SPECIFICATION: FOR SUPPLYING OF LASER DISTANCE METER IN GERMISTON MAIN PLANT

Specification and Document Compiled by: Name & Surname Kgobisa Makena Signature : Date : 04/12/2023 Supported by: Name & Surname Phumla Nyikila Signature PP Signature Date 04/12/2023 Approved by: Name & Surname Benjamin Mosia Signature Date: 04/12/2023

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1. Scope of work

1.1 supply a laser distance meter in Germiston main plant.

2. TECHNICAL DISCUSSIONS

2.1 For any technical queries or arrangements to visit the site, the appointed Project Manager in charge of the contract.

Details are hit ricesiae inakene (Technician); un 1 520 2502 / un3 52 11 USS.

3. TECHNICAL INFORMATION REQUIRED:

- 3.1 All offers shall be in duplicate and will not be considered unless full particulars and sufficient literature is provided at the tendering stage to enable the Transnet Technical Officers the opportunity to assess each offer properly.
- 3.2 Tenderers shall 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; bidders 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 Tenderers shall submit offers to this specification but may also submit alternative or additional offers for consideration. Each offer shall, however, be quoted for separately. Departures from the specification or alternative offers shall be clearly indicated and a clear indication shall be furnished in each case as to why the alternative offer submitted by the bidder is considered superior and / or more beneficial to Transnet than that specified.

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4. The following regulation and codes shall be complied with:

All Civil Works, equipment, installations and testing under this contract as applicable shall comply with the requirement of the following standard specifications:

- Occupational Health and Safety Management System SANS/ISO 45001
- The Occupational Health and Safety Act No. 85 OF 1993 as amended and contingent Regulations
- The National Environmental Management Act, Act 107 of 1998

5. TECHNICAL MINIMUM REQUIREMENTS: (to be specified for Civil / Electrical or any other work to be carried out)

- This specification does not absolve the supplier of sound engineering practises.
- The laser distance meter to comply with SANS 1795-1:2020.
- No work can commence until the Supplier/Contractor has done SAFETY INDUCTION and the Safety File has been approved.
- All material used to be SABS approved and first grade.

TECHNICAL SPECIFICATION: For a laser distance meter

Dust and splash protection: IP 54 Measurement time, typical: < 0.5 s Units of measurement: m/cm, ft/inch

Laser diode: 635 nm, < 1 mW

Measurement range: 0.05 - 50.00 m

Laser class: 2

Measurement accuracy, typical: ± 1.5 mm* (*plus use-dependent deviation)

Measurement range of incline measurement: $0 - 360^{\circ}$ (4 x 90°)

Measuring accuracy (typical): $\pm 0.2^{\circ*}$ (*plus use-dependent deviation)

Measurement time, max.:4s

Power supply: 2 x 1.5 V LR03 (AAA)

Measuring range: up to 50m Automatic deactivation:5min

Weight: approx 0.1kg

Memory capacity (values):30

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- -The Laser Measure should also feature a sturdy, shockproof housing that protects the tool from damage when dropped from a height of up to 1 metre.
- -The supplier to include extra to spare batteries
- -The meter to come with the pouch

6. **GUARANTEE**

- 6.1 Make good any defects due to inferior design, material and or workmanship which may arise during that period
- 6.2 Should failure to, or stoppage of any part of the tool/equipment be so frequent as to become objectionable or should the equipment prove otherwise unsatisfactory during the first 12 (twelve) months, the Contractor shall, at his expense, if called- upon by Transnet, replace the whole or such part thereof as Transnet may deem necessary with equipment to be specified by Transnet Engineering's general specification must be adhered-to at all times

The Contractor shall guarantee the tool for a period of twelve (12) months.

7. TESTING & TRAINING

- 7.1 All workmanship shall be of a high standard in every respect
- 7.2 The Contractor shall be required to attend all site meetings for verification of the tool.
- 7.3 No scrap metal can be removed from site without written consent from Transnet.
- 7.4 The supplier to take full responsibility to test the machine /tool for operation in the workshop, doing all demonstration in the presents of the end users/operators.

8. SAFETY COMPLIANCE:

- 8.1 All construction shall comply with the Occupational Health and Safety Act (Act 85 of 1993)
- 8.2 The Contractor shall be solely responsible for the safety of his staff and for providing security to safeguard his works and material on site, until such time as the plant has been taken over by Transnet.

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- 8.3 The Contractor's personnel will have to attend a compulsory safety induction course at the Transnet plant before they commence work within the plant, which will be for the expense of Transnet. Arrangements will have to be made with the Technical Officer in charge beforehand'.
- 8.4 The employees of the contractor shall at all-times adhere to Transnet Engineering's security and safety procedure.
- 6.5 The appropriate PPE and Safety harnesses are compulsory.

9. BIDDERS SHALL NOTE THAT:

- 9.1 Should any of the items called for be standard equipment, then the words "Standard Equipment" shall appear against the item
- 9.2Any further items of equipment and accessories, not listed above which bidders can offer, shall be detailed, and quoted for separately under the heading "Additional Equipment".
- 9.3 Any change or suggestion on the specification by the bidders should be run through Transnet representatives.
- 9.4 Bidders should also note that every equipment should come with at least operation and maintenance manual

10. BIDDERS SHALL STATE:

- 10.1 Whether all essential renewable parts for the equipment will be readily available in the Republic of South Africa
- 10.2 What after-sales service for the equipment can be offered?
- 10.3 Where similar equipment has been installed in the Republic of South Africa

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11. SITE BRIEFING:

Attendance to the	Site Briefing is compulsor	y only if the suppliers	don't understand what is
expected from the	m.		

END OF SPECIFICATION

Accepted by Contractor:

Name & Surname:	
Company Name :	
Signature:	Date :

By signing on the acceptance column the contractor acknowledge that he understands the content of the specification. He / She shall confirm to the requirements and regulations specified in the specification. He has the authority within his delegation to represent and sign on the company's behalf.

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