

SCOPE OF REQUIREMENTS

REQUEST FOR QUOTATION (RFQ):

THE SUPPLY, INSTALLATION, CALIBRATION AND COMMISSIONING OF LABORATORY TESTING EQUIPMENT AT TRANSNET PIPELINES DEPOTS.

a. Supply of Lab Testing Equipment

The respondent is required to supply a variety of different laboratory instruments as outlined in this document. The respondent is required to supply, deliver, install, calibrate and commission the ordered equipment at designated TPL depots, within 120 days commencing from the date the contract is awarded.

The minimum specifications for the different laboratory testing equipment have been specified below:

1. Specification for Atmospheric Distillation Units

- Must be automatic.
- Must run ASTM D86 test method.
- Must handle 100ml distillation flasks for product testing.
- Must be able run tests on Group 0 to Group 4 products according to ASTM D86
- Tests range from Petrol (ULP), Diesel Fuels, Aviation Turbine Fuel (Avtur /Jet Fuel) and Toluene.
- Programmed to be able to determine composition of Petrol/Diesel mixtures.
- Run atmospheric distillation.
- Temperature 0 to 450 °C
- Must have a fire/overheat protection system.
- Single-phase 220Volts.
- Weighs below 120kg.

2. Specification for Quick Flash-Point Testers

- Must be automatic.
- Must run ASTM D93/IP34 and IP70 test methods.
- Must be a closed-cup Pensky Martens type.
- Must be able to detect flashpoint of diesel, biodiesel and Jet fuel.
- Must complete the test within 5 minutes.
- Uses electrical glow plugs.
- Must have a fire/overheat protection system.
- Single-phase 220Volts
- Weigh below 120kg

3. Specification for Sulphur Testers

- Must be automatic.

- Automatic and Manual Calibration functionality.
- Has 16 calibration curves.
- Does not require a catalyst.
- Concentration: in ppm: 2, 8, 15, 100, 500
- Element: **Sulphur**
- Must run ASTM D7039, ISO 20884, correlate to ASTM D2622/D4929
- Sample Matrix: hydrocarbon
- Specific Technology: MWDXRF
- Type: Portable
- Single phase 220Volts
- Weigh below 120kg

4. Specification for Density Meters

- Must be automatic.
- Must have an auto-sampler.
- Must have automatic drying unit with tubes for suction, draining, air and waste.
- Must use ASTM D4052 test method.
- Minimum sample volume should be 2ml.
- Measurement range of 0 - 3 g/cm³.
- Measurement period of 1 - 3 minutes (including temperature control).
- Measurement temperatures of between -10°C and 200°C at ambient pressure.
- Medium size
- Single-phase 220Volts

5. Specification for RON/MON Testers

- Must be automatic.
- Must use ASTM D2699 test method for RON and ASTM D2700 test method for MON.
- Must run an Octane number test range of 40 to 120.
- Must be portable.
- Must have a fire/overheat protection system.
- Single phase 220Volts

6. Specification for Coulometric Titrators

- Must be automatic.
- Must use Karl-Fischer Titration
- Must use ASTM D95/D4377/D6304 test method.
- Titration range of 1ppm to 5%
- Portable size
- Single phase 220Volts

7. Specification for Conductivity Testers

- Must be automatic.
- Must use ASTM D2624 test method.
- Must be designed for a one-point calibration.
- Conductivity range of 0 - 200mS/cm
- Temperature range of -10°C to 110°C
- Must be portable.

- Single phase 220Volts
- Weigh below 120kg

b. Delivery of Lab Equipment.

The respondent is required to deliver, install, calibrate and commission the ordered lab equipment at these designated TPL depots, as per the respective quantities and locations provided below;

1. Atmospheric Distillation Units -

- 2x IVW
- 2x JMP

2. Sulphur Testers -

- 1x IVW
- 1x JMP
- 1x SBG
- 1x CBK
- 1x ALR
- 1x WAO
- 1x WIR
- 1x SEC

3. Density Meters -

- 1x IVW
- 1x JMP
- 1x SBG
- 1x CBK
- 1x ALR
- 1x WAO
- 1x WIR
- 1x SEC
- 1x LLA
- 1x TLR
- 1x RTR
- 1x KDL
- 1x KRP
- 1x APT

4. RON/MON Testers -

- 1x IVW
- 1x JMP
- 1x SBG
- 1x CBK
- 1x SEC

5. Coulometric Titrators -

- 1x IVW
- 1x ALR

6. Conductivity Testers -

- 1x IVW
- 1x JMP
- 1x CBK
- 1x IRP
- 1x ALR
- 1x APT

7. Quick Flashpoint Testers -

- 1x IVW
- 1x JMP
- 1x ALR
- 1x WAO
- 1x APT

c. Delivery Addresses and contact details.

Delivery address and/or GPS Coordinates of the designated TPL depots

<u>Depot</u>	<u>No. of Lab Equipment</u>	<u>Contact Person(s)</u>	<u>Address</u>
Klerksdorp (KRP)	1	Annah Ncube Victoria Moyo	9A Mahogany Avenue, Klerk Industria Klerksdorp 2571 GPS: 26°53'50.8384" S 26°39'48.6459" E
Tarlton (TLR)	1	Jerry Mogale Gugulethu Mbatha	Cnr of Rustenburg & Ventersdorp Road, Tarlton 1739 GPS: 26°04'45.7552" S 27°38'25.6786" E
Refractionator Plant (IRP)	1	Gugulethu Mbatha	Cnr of Rustenburg & Ventersdorp Road, Tarlton 1739 GPS: 26°04'45.7552" S 27°38'25.6786" E

Witbank (WIR)	2	Gideon Khasi Victoria Moyo	9 Schonland Drive Ferrobank Witbank 1035 GPS: 25°51'46.5839" S 29°09'59.1780" E
Langlaagte (LLA)	1	Shahiem Davids Gugulethu Mbatha	42-46 Main Reef Road, Longdale, Johannesburg 2093 GPS: 26°12'16.2"S 27°58'29.8"E
Sasolburg (SBG)	3	Nonhlanhla Dlamini Victoria Moyo	Cnr Bergius Road and Henry Street, Sasolburg 1947 GPS: 26°49'26.3"S 27°50'52.8"E
Jameson Park Terminal (JMP)	7	Joseph Makabanyane Victoria Moyo	Cnr. R42 and Poortjie Road, Jameson Park Nigel 1441 GPS: 26°28'01.9"S 28°25'29.0"E
Alrode (ALR)	5	Paul Monaheng Gugulethu Mbatha	35 Garfield Road, Alrode Alberton GPS: 26°17'54.7"S 28°07'13.3"E
Island View (IVW)	8	Eben Labuschagne Sola Masola	Cnr. Trinidad and Taiwan Road, Bayhead Durban GPS: 29°53'42.1"S 31°01'20.8"E
	3	Stephen Mpembe	274 Alwyn Street Waltloo Pretoria

Waltloo (WAO)		Gugulethu Mbatha	0127 GPS: 25°43'32.9912" S 28°18'54.2052" E
Kendal (KDL)	1	Gideon Khasi Victoria Moyo	Hoogland Bordary Alpha Mine Kendal GPS: 26°00'29.2074" S 28°58'10.1986" E
Airport (APT)	3	Paul Monaheng Gugulethu Mbatha	50 Springbok Road, Bartlett Boksburg GPS: 26°17'52.9464" S 28°07'11.8918" E
Secunda (SEC)	3	Phumuza Madonsela Victoria Moyo	Behind Brand Spruit Mine Secunda GPS: 26°35'22.5865" S 29°08'37.3009" E
Rustenburg (RTR)	1	Jerry Mogale Gugulethu Mbatha	No 4 Eskom Rd, Rustenburg GPS: 26°49'33.0824" S 27°51'02.6139" E
Coalbrook (CBK)	4	Thami Mbamba Victoria Moyo	Cnr Jan Haak road and NATREF Main Entrance, Sasolburg 1947 GPS: 26°47'51.6"S 27°51'26.5"E

d. Installation, Calibration and Commissioning

The respondent is required to install, calibrate and commission the lab equipment. The respondent shall be required to issue a calibration certificate after commissioning.

The respondent is required to connect relevant new lab equipment to existing fire protection equipment, as per equipment specifications in section (a) above.

The respondent is required to test the installed lab equipment on site in the presence of a TPL representative (Ops Supervisor or Delegate) to confirm that it is working properly as part of equipment hand-over.

The respondent is required to provide operating manuals and Safe Operating Procedures for all the lab equipment. They are required to advise on equipment maintenance/calibration intervals to ensure optimal performance and compliance.

e. Safety, Health and Environmental

The awarded contractor shall comply with the requirements of the Transnet Contractor Management Procedure TRN-IMS-GRP-PROC-014 and OHS Act 85 of 1993 and its applicable regulations and any laws applicable in the terms of Health and Safety.

Contractor's Health and Safety File (Minimum Requirement):

The Contractor prior to entering the site must furnish the Client with a Health and Safety file. The Health and Safety File must include but not limited the following documents:

i. CONTRACTOR ACCREDITATION

- Proof of technicians and contractor accreditations, affiliations and / or registrations
- Letters of Reference – Related to the scope of work (Laboratory equipment)

ii. CONTRACTOR ORGANOGRAM

- Site Specific Organogram of reporting structure. This document must provide all persons appointed in terms of OHS Act No. 85 of 1993 including contact details. (rev, date, approval)

iii. INSURANCE COVER

- Contractor proof of good standing with the compensation fund or with a licensed compensation insurer – Letter of Good Standing

iv. MANAGEMENT PLANS

- Contractor Execution Plan – Project specific
- Contractor Health and Safety Policy – Signed by CEO
- Contractor Emergency Contact Details

v. APPOINTMENTS

- Fully completed and signed Legal Appointments as required by legislation and training certificates as well as abbreviated CV attached to the appointments, minimum following appointments but not limited to:
 - Act 16(2) – Delegated authority (Assistant to the Chief Executive Officer)
 - CR 9(1) – Risk Assessor

vi. RISK ASSESSMENTS: SAFE OPERATING PROCEDURES

- Detailed risk assessment based on the scope of work (Activity based)
- Method statement
 - A detailed description of how work will be performed.
- Safe work procedures
 - Working Instructions

vii. INDUCTION DOCUMENTS

Contractor and its contractors shall provide the following:

Induction application forms completed for every employee of the contractor performing work on site, the following shall be attached:

- Employee dossier with applicable documentation
- Certified copies of IDs not older than three months
- Work permits for foreign nationals.
- SAPS Police clearance certificate (SAPS 365), not older than six months
- Valid certificate of medical fitness for all – issued by Occupational Health Practitioner
- Proof of competence i.e.: Technicians, drivers, etc.
- Abbreviated CV for the management and legal appointees

viii. MANDATORY AGREEMENT

- In terms of section 37(2) of the OHS Act, contractor to sign an agreement with Transnet Pipelines
- Signed copy of mandatory agreement provided.

ix. TRAINING RECORDS AND COMPETENCY CERTIFICATES

- Technician's copies of competency for the equipment to be installed and maintained certified within three months.

- Copies of training certificates certified within three months.
- CV's of Technicians

x. MAINTENANCE RECORDS

- Calibration Certificates of equipment to be used that requires calibration.

xi. REGISTERS

- Copy of equipment registers to be used with copy of each item's inspection checklist, e.g.,
 - Construction vehicles and mobile plant
 - Hand tools
- Completed PPE Issue Register for all Technicians.

xii. INCIDENT/ACCIDENT MANAGEMENT

- Incident /Accident Management Procedure including reporting, recording and investigation of incidents and accidents.
- Register of reportable injuries to the Provincial Director

xiii. OTHERS

- Copy of the OHS act and its Regulations, COID Act Regulations

f. Site Access

The respondent shall at all times comply with Safety, Health and Environmental Requirements prescribed by law as they may apply to the services. They shall comply with the provisions of Occupational Health and Safety Act (OHSA). The respondent performs duties of the employer and is in every respect responsible for compliance with the provisions of the act. They shall be responsible for the safety, health and environmental rules that TPL may require to be implemented.

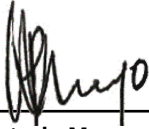
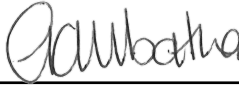
The contractor shall ensure that their contractor execution plan as well as their issue-based Risk Assessment includes the management of communicable diseases, including COVID-19. COVID-19 is no longer treated as a separate item.

PPE Requirements for Entry into Primary Areas:

- Dromex DW – D59 FA, 100% cotton, flame retardant and Acid resistant SABS approved conti suit with long sleeves. Materials meeting the requirements of SANS 434, antistatic properties EN 1149 with silver reflective strip (50mm in

width) on each sleeve around upper arm and each leg, meeting the requirements for EN471.

- Safety footwear with steel toe protection, anti-static, slip resistant, hydrocarbon resistant and leather material.
- Hard hat with chin straps meeting requirements of SANS 1397:2003

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