

## PART C3: SERVICE INFORMATION

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## **TRANSNET PIPELINES**

### **TENDER PYP**

## **INSPECTION OF ABOVEGROUND PETROLEUM STORAGE TANKS AT VARIOUS TRANSNET PIPELINE DEPOTS – (AS AND WHEN REQUIRED) FOR A PERIOD OF FOUR YEARS.**

### **PROJECT SPECIFICATION**

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ANNEXURE: SPECIFICATION – PL 831/B.

## 1. SCOPE OF SERVICE

- 1.1. This contract covers the inspection of aboveground storage tanks at Transnet Pipelines' various depots as more clearly set out in the Duties of the Contractor.
- 1.2. This work will be done in accordance with the following document:
  - 1.2.1 Transnet Pipelines specification PL 831 / Latest: Specification for the inspection of above ground accumulator tanks.
- 1.3 This contract covers the 10 yearly interval based inspection of aboveground storage tanks as per API 653 / Latest. The contractor must refer to the Transnet Pipelines specification PL 831 / Latest: Specification for the inspection of above ground accumulator tanks which covers in general the internal and external visual inspection of the tank roof and shell, Ultrasonic wall thickness testing, Magnetic particle inspections, Radiographic testing of welds, Vacuum box testing and Magnetic Flux leakage Floor Wall thickness survey.
- 1.4 The Contractor shall note that **not** all tanks listed in the Schedule of Services and Prices may be made available during the validity of this contract due to operational constraints. Historically, Transnet inspects approximately 8 to 10 tanks a year.

## 2. TENDER BRIEFING

- 2.1 A site tender briefing will be held at Transnet Pipeline Jameson Park depot for the Tenderers to familiarize themselves with the requirements – a date shall be indicated in the Notice to Tenderers.
- 2.2 Tenderers wishing to enter into the tank bund area for closer inspection shall be required to wear suitable safety shoes, fire retardant overalls and hard hats. Tenderers are required to supply their own personal protective equipment (PPE).

## 3. COMPLETION PERIOD

- 3.1 Transnet anticipates that the inspection per tank will be completed within **three (3) days**.
- 3.2 The contract shall be valid for a period of **4 years** from the date specified in the contract.
- 3.3 The Contractor shall be informed at least **one week** in advance when a tank is available for the inspection to take place.

## 4. SUPPORT ACTIVITIES SUPPLIED BY TRANSNET PIPELINES

- 4.1 Transnet Pipelines will arrange the tank cleaning, de-gassing and disposal of sludge. A Gas-free Certificate can be supplied to the Contractor before handing the tank over to the Contractor to commence with the Works.
- 4.2 Transnet Pipelines, will ensure that the valves to and from the tanks are spaded off.

## 5. DUTIES OF CONTRACTOR

- 5.1. Further to any other duties required of the Contractor in carrying out the service, he shall be responsible for the following:
- 5.1.1. The Contractor must ensure that they provide proof of qualifications for the following for all inspectors that will be working for TPL:
- a. All NDE technicians to be certified in accordance with API 653 Annexure G
  - b. API 653 Inspector to be certified in accordance with API 653 Annexure D
  - c. Authorised Inspection Authority (A.I.A.) to verify welding procedure qualifications, fabrication, third party inspection, repairs and statutory inspections of steam generators (boilers) and pressure vessels
  - d. Quality Assurance representation,
  - e. Non-Destructive Testing (NDT)
- 5.1.2. The Contractor shall provide suitable tools and equipment required to execute the Works to the requirements of the contract
- 5.1.3. The Contractor shall supply flameproof lighting, equipment and tools for use inside the tank. All equipment entering the bund area shall be flameproof and or spark proof.
- 5.1.4. The contractor shall provide suitable electricity/generator for his own use as Transnet will not supply electricity for all equipment to be used.
- 5.1.5. The Contractor to provide a Fire standby/rescue for the inspection services.
- 5.1.5.1. Once appointed, the Contractor shall ensure adequate resources are available and implemented based on a site specific rescue based risk assessment. Valid training and expertise available to perform expected outcome. Each an every site must be assessed and rescue plan to become part of the Permit document and minimum equipment checklist to be signed off by TPL rep, verified onsite.
- 5.1.5.2. The following are minimum requirements which shall be made available onsite for each standby/rescue event, in addition based on the expertise and professional qualifications, but not limited to:
- a. Ropes & associated equipment.
  - b. Tripods
  - c. Safety harnesses
  - d. Rescue stretcher and harnesses (Fit for purpose stretcher)
  - e. Air supply equipment (SCBA full set and min 30min air supply unit, with back up device)
  - f. Valid/Calibrated Gas Monitoring devices: SANS calibration certificate available onsite.
  - g. First aid equipment (In particular Medical air/oxygen cylinder and mask)
  - h. Trained personnel.
  - i. Intrinsically safe light/torch
- 5.1.5.3. Minimum TPL requirements for fire standby/rescue qualifications are, but not limited to:
- a. Professional fire fighters with minimum Fire 1 & 2 and Hazmat awareness,

- b. Operational qualifications registered/certified by SAESI (South African Emergency Services Institute).
  - c. Confined space rescue training certificate.
  - d. Valid First aid Level 3 training.
- 5.2. In addition to the duties of the Contractor outlined in clause 5.1.1 to 5.1.5 above, the Contractor shall carry out the following technical requirements.
  - 5.2.1. Each Depot Manager/representative shall brief the Contractor during induction on emergency procedures and assembly points before any work can commence, where a register of that briefing shall be co-signed by the Depot Manager and Contractor to ensure that all parties agree to the procedures. The Contractor and all his employees must produce their proof of identification on entering Transnet premises.
  - 5.2.2. The Contractor shall report to the permit issuer every morning and afternoon, that is, prior to work commencing and after the work has been completed to open and close the permit. Permits are only valid for one day.
  - 5.2.3. The Contractor shall provide Transnet Pipelines with the medical certificates of all personnel that perform the work, at the time of award and then annually until the contract expires.
- 5.3. In addition to what is stipulated in E4.E: Safety Arrangements and Procedural Compliance with the Occupational Health and Safety Act (Act 85 Of 1993) and Applicable Regulations annexed hereto, the Contractor's supervisor shall take note of the following Safety requirements:
  - 5.3.1. The Contractor shall satisfy himself that the work environment is safe, and sign the work permit prior to the commencement of the Works.
  - 5.3.2. The Contractor shall ensure that, prior to commencing Works, all fixed pipe work leading to and from the tank is spaded off in order to prevent accidental discharge of any product into the tank during the inspection process.
  - 5.3.3. The Contractor shall ensure that all safety harnesses, tools and equipment have a register, which shall be subject to inspection by a Transnet Pipeline Depot Manager.
  - 5.3.4. The safety and health risk associated with the Works is entirely that of the Contractor. All personnel performing the Works must be briefed about the safety factor involved. The Contractor shall ensure that a First Aid box is available and accessible on site.
  - 5.3.5. All injuries and incidents shall be reported to a Transnet Pipelines Depot Manager, and investigated by a Transnet Pipelines Safety Representative in conjunction with the Contractor's Safety Representative.
  - 5.3.6. The Contractor to note that a Transnet Pipelines Safety Representative shall conduct Health and Safety inspections whilst the work is in progress.
  - 5.3.7. The Contractor shall submit a copy of his Health and Safety Programme at the time of tender.

5.3.8. On award, the contractor must supply a complete Contractor Compliance File for approval by the Health and Safety Department. See attached Contractor Compliance File assessment check list.

5.4. The following protective clothing is required:

5.4.1. The Contractor shall supply protective clothing that is in compliance with OHSAct 85 of 1993 (Refer to Construction Regulations 2014). This shall include at least the following: flame retardant overalls, hard hat, safety boots and gloves.

5.4.2. The Contractor's supervisor shall inspect every person to ensure that they are wearing protective clothing at all times during the work.

5.5. The Contractor shall undergo company security screening conducted by Transnet and State Security Agency (SSA).

5.5.1. The directors of the Contractor shall complete and submit the screening consent form.

5.5.2. The following is a list of all required documents to be submitted to conduct company screening:

- A. Company profile;
- B. Company registration documents;
- C. CSD registration document
- D. SARS tax pin document and VAT number;
- E. Professional Membership accreditation;
- F. Recent audited financial statements of the company;
- G. Company bank letter;
- H. Lease agreement if company is renting the business site Or proof of ownership of the business premises;
- I. ID Copies of Directors

5.5.3. Each employee from the Contractor that is to be on site is also required to complete the screening consent form accompanied by a copy of ID.

## **6. HOURS OF WORK**

6.1 The normal working hours for Transnet Pipelines shall be as follows:

Monday to Friday: 07H30 – 12H45; 13H30 – 16H00.

6.2 The Contractor shall state in his tender if he anticipates working outside normal working hours.

6.3 Allowance is to be made in planning for the issuing and receiving of permits every day.

6.4 The Contractor shall indicate to the Project Manager 24 hours in advance when he requires working outside of the normal working hours.

## **7. SCHEDULE OF PRICES**

7.1. The Contractor shall state separate prices per tank to be inspected as shown in enclosed Schedule of Prices.

- 7.2. The prices for tank inspections shall be deemed to be all inclusive and shall include but not be limited to transportation, health and safety, fire standby/rescue and accommodation costs.
- 7.3. Contractor to provide rates for the services as highlighted in Part 2 of the schedule of prices to be used for re-inspections wherever rework is applicable.

## 8. INSPECTION REPORTS

- 8.1. The Contractor shall furnish Transnet Pipelines with a detailed report as outlined in Transnet Pipelines Specification PL 831 Latest: Specification for the inspection of above ground accumulator tanks, attached hereto.
- 8.2. The Contractor must notify the project manager of any major defects within two days of the inspection.
- 8.3. The Contractor shall submit a detailed engineering tank integrity report within two (2) weeks after the completion of the tank inspection. The report should outline test results on the following, but not limited to, plumbness/tilt, roundness, floor bottom sagging, floor bottom settlement, out of plane settlement, edge settlement, floor plate, remaining life on shell, roof and bottom plates, etc.
- 8.4. The Contractor shall also submit a Certificate of Compliance (COC) for each tank inspected.
- 8.5. In a case where maintenance/refurbishment/repairs are recommended in the report by the AIA, further inspections are to be inspected on the maintenance/refurbishment/repairs to ensure that works was completed as per report and then inspection report is to be updated and a COC issued to Transnet Pipelines.

## 9. LOCATION OF DEPOTS

Station/Depot	Lat.	Long.	Address
Alrode	-26.29804068	28.11996991	35 GARFIELD STREET, ALRODE, 1451
Jameson Park	-26.46793954	28.42547592	POORTJIE RD, (Off R42 to NIGEL)
Langlaagte	-26.20491863	27.97527025	46 MAIN REEF RD, INDUSTRIA, 2093
Rustenburg			
Tarlton	-26.07937652	27.64046629	CNR RUSTENBURG & VENTERSDORP RD
Witbank	-25.86294002	29.16643836	9 SCHOONLAND DR, FERROBANK, WITBANK, 1035
Twini	-30.0283404	30.8807782	
Hilltop	-29.5511998	30.4493090	
Mnambithi	-28.6157813	29.6130796	
Jameson Park			Cnr R42 & Poortjie Road, Heidelberg, 1441
Island View			Lot 5, Taiwan Road, Bayhead, Durban, 4045
Kroonstad			03 First Road, Dunhill, Kroonstad
Sasolburg			Cnr Henry & Bergius Road, Sasolburg, 1947
Watloo			174 Alwyn Street, Watloo, 0184

## 10. SITE ACCESS

- 10.1. The Contractor shall submit a Contractor Compliance File, for all Transnet Pipeline depots in scope, to the Transnet Pipelines Safety Manager for review and approval.
- 10.2. Please note that work shall not commence without an approved Contractor Compliance File.
- 10.3. Upon approval of Contractor Compliance File, the Contractor shall be issued with a Site Access Certificate that is valid for the duration of the contract.
- 10.4. The Contractor shall accept the Site Access Certificate and return signed to Transnet Pipelines Project manager, only then the Contractor can have access to the sites where tank inspections are to be conducted.
- 10.5. Please note that Permit Procedure apply and the Contractor needs to allocate time for it.

## 11. LIST OF TANKS IN SCOPE

- 11.1. Below is the list of all the tanks provisionally in scope at different Transnet Pipelines depots:

No.	Tank No. & Asset No.	Diameter (mm)	Height (mm)	Internal Floating Roof
<b>TPL Alrode Depot Tanks:</b>				
1.	Tank No 1: PD 500111	Ø 10670	9140	NO
2.	Tank No 2: PD 500112	Ø 10670	9140	NO
3.	Tank No. 3: PD 500113	Ø 10670	9140	NO
4.	Tank No. 4: PD 500114	Ø 10670	9140	NO
<b>TPL Langlaagte Depot Tanks:</b>				
5.	Tank 2: PD 500062	Ø 10670	9140	NO
6.	Tank 3: PD 500063	Ø 10670	9140	NO
7.	Tank 4: PD 500064	Ø 10670	9140	NO



8.	Tank No 5: PD 500065	Ø 13000	16140	YES
9.	Tank No 6: PD 500066	Ø 13000	16140	YES
<b>TPL Rustenburg Depot Tanks:</b>				
10.	Tank No.01: PD 600722	Ø 7200	6000	NO
11.	Tank No.02: PD 600723	Ø 7200	6000	NO
12.	Tank No.03: PD 601216	Ø 7200	6000	NO
<b>TPL Tarlton Depot Tanks:</b>				
13.	Tank No A1: PD 600768	Ø 20700	19300	NO
14.	Tank No A2: PD 600769	Ø 20700	19300	NO
15.	Tank No A4: PD 600771	Ø 19300	18000	YES
16.	Tank No A5: PD 600772	Ø 16750	16500	YES
17.	Tank No A6: PD 600773	Ø 16750	16500	YES
18.	Tank A7: PD 600774	Ø8500	8400	YES
19.	Tank A8: PD 600775	Ø8500	8400	YES
20.	Tank A9: PD 600778	Ø10500	10600	YES
21.	Tank T3 : PD 600780	Ø5000	6000	NO
22.	Tank T4 : PD 600779	Ø6800	7000	NO
<b>TPL Witbank Depot Tanks:</b>				

23.	Tank No 1: PD 500151	Ø 6000	6000	NO
24.	Tank No 2: PD 500152	Ø 6000	6000	NO
25.	Tank No 3: PD 500153	Ø 6000	6000	NO
26.	Tank No 4: PD 500154	Ø 6000	6000	NO
27.	Tank No 5: PD 500155	Ø 15000	13000	NO
28.	Tank No 7: PD 500157	Ø 20000	12000	YES
29.	Tank No 8: PD 500158	Ø 20000	12000	NO
30.	Tank No 9: PD 500159	Ø 20000	12000	NO
<b>TPL Twini Depot Tanks:</b>				
31.	51-T01	Ø 4400	9400	NO
32.	51-T02	Ø 4400	9400	NO
<b>TPL Hilltop Depot Tanks:</b>				
33.	53-T01	Ø 4400	9400	NO
34.	53-T02	Ø 4400	9400	NO
<b>TPL Mnambithi Depot Tanks:</b>				
35.	55-T01	Ø 4400	9400	NO
36.	55-T02	Ø 4400	9400	NO
<b>TPL Jameson Park Depot Tanks:</b>				

37.	Tank No. T2	Ø 20000	21300	YES
38.	Tank No. T3	Ø 20000	21300	YES
<b>TPL Island View Depot Tanks:</b>				
39.	Tank No. T01	Ø22660	10000	YES
<b>TPL Kroonstad Depot Tanks:</b>				
40.	Tank No. 1: PD 300101	Ø 9140	13000	NO
<b>TPL Sasolburg Depot Tanks:</b>				
41.	Tank No. 1: PD 500283	Ø 4572	5486	NO
<b>TPL Watloo Depot Tanks:</b>				
42.	Tank No. 8: PD 500038	Ø12500	162000	YES