



TRANSACTION DOCUMENT

SERVICE ORDER

ENQUIRY NO: CTT 25165

DESCRIPTION: HIGH-PRESSURE INTERNAL CLEANING OF TANKS AT THE PetroSA FACILITY IN MOSSEL BAY

1. SCOPE OF WORK

1.1 Services

The service required is for internal cleaning of seven storage tanks, two off situated in Voorbaai and five onsite at GTL plant. The identification numbers and dimensions of the tanks indicated in table below,

Tank No.	Diameter	Floor area
75 TK 109 B	35 m	962 m ²
75 TK 109 C	35 m	962 m ²
51 TK 152	27.5 m	594 m ²
51 TK 172 C	28.5 m	638 m ²
51 TK 175 A	28.5 m	638 m ²
51 TK 172 A	28.5 m	638 m ²
51 TK 181	41.69 m	1365 m ²

The detailed scope of work is as follows:

1.1.1 High-pressure water jetting services for internal cleaning of the tank

1.1.2 Industrial vacuum cleaning services for handling both dry and liquid

1.1.3 Chemical cleaning of the tank

1.1.4 Removal of all liquids after cleaning, floor to be dry.

It is expected from the Supplier to provide the Service expertise, advanced techniques, reliable equipment, manpower, and experienced project management, including preparation and execution of work in accordance with and within time frames defined and agreed by PetroSA.

The Supplier shall be required to supply and perform the following all-inclusive services,

DOCUMENT NO.	DESCRIPTION	ISSUE DATE	PAGE
CTT 25165	HP CLEANING OF TANKS		1 of 5

1.1.1 High-Pressure Water Jetting Services

High-pressure water jetting application for penetration and removal of heavy and light hydrocarbon and other deposits from inside and outside the tank area.

Team Required:

- Site Manager
- Safety Officer
- Supervisor
- Foremen
- HP Machine Operators
- General Workers
- Vacuum Truck Driver

1.1.2 Industrial Vacuum Cleaning Services

The Industrial Vacuum cleaning truck must be capable of handling liquid generated waste, sludge, dry solid clean-ups.

The cleaning activities inside confined spaces shall need to be performed by manual methods e.g. scraping, wire brushing, hand sweeping or other similar hand cleaning methods.

1.1.3 Chemical Cleaning Services

Chemical cleaning services are required for the removal of scale and debris build up on the tank, pipework and other equipment. The service includes neutralising and metal passivation. The Supplier shall supply a QCP (Quality Control Plan) for a specific task according to PetroSA chemical cleaning procedures. The Service Supervisor shall compile the procedure for the specific task and forward the procedure and QCP to the corrosion Engineer / RBI Engineer for final approval.

1.1.4 Bund Wall

The temporary bund wall must be made out of sand bags. The volume of the bund wall is 18 cubic meter and height of the wall is 4 sand bags. The Supplier shall dispose of the bund wall after completion of the job. If there is a delay in the disposing of the bund due to PetroSA logistics, the supplier will be paid additional mob and demob fees to execute the disposal thereof.

1.1.5 Application (Available on Request)

The Supplier shall perform all work in strict accordance with the latest approved edition of the following PetroSA Controlled Procedures:

DOCUMENT NO.	DESCRIPTION	ISSUE DATE	PAGE
CTT 25165	HP CLEANING OF TANKS		2 of 5

PetroSA INDUSTRIAL CLEANING AND CATALYST HANDLING PROCEDURES AND PRACTICES	
DOCUMENT NUMBER	DESCRIPTION
ISM/SD/MET/064	CHEMICAL CLEANING OF METALLIC EQUIPMENT
WP/MRE/FBS/CNT/011	CLEANING OF MOBILE TANKERS
WP/MRE/FBS/CNT/005	HIGH-PRESSURE WATER CLEANING BY SUPPLIERS
PetroSA INDUSTRIAL CLEANING AND CATALYST HANDLING PROCEDURES AND PRACTICES	
DOCUMENT NUMBER	DESCRIPTION
WP/MRE/FBS/CNT/013	SAFE WORKING PRACTICE VACUUM TRUCK

1.2 Inclement Weather

PetroSA shall, in the event of adverse weather conditions, pay the Supplier for the crews on-site at a minimum of four (4) hours or the actual hours that the crews would have spent on-site and ordered to stand down. The approval for not allowing crews to work due to inclement weather must be approved by a PetroSA Representative in writing in order for the payment of crews to be authorised.

1.3 Prerequisites

All work shall be performed in accordance with the approved PetroSA procedures, standards and specifications and it will be the responsibility of the Supplier to fully acquaint its employees with the content thereof.

The Supplier shall be responsible to obtain the necessary permits to work prior to the commencement of the services specified on the Works Order.

The Supplier shall be responsible for ensuring that the workforce of the approved sub-supplier(s) is competent and fully equipped to perform the services safely.

1.4 Materials

The supplier shall supply all materials and consumables required for the performance of the services as required.

Any materials supplied by PetroSA on a free issue basis shall remain the property of PetroSA and any surplus material shall be returned to PetroSA upon completion of the services.

DOCUMENT NO.	DESCRIPTION	ISSUE DATE	PAGE
CTT 25165	HP CLEANING OF TANKS		3 of 5

The Supplier is responsible for transportation of material on and off-site.

The Supplier shall also be responsible for any loss of material due to negligence, misconduct or bad workmanship.

The Supplier shall maintain a material register of all the chemicals and materials on site with MSDS.

PetroSA reserves the right to supply the materials required.

No payment will be made for incorrect, inferior or rejected materials.

1.5 General

Any activity, work or condition not covered in this Agreement shall be negotiated and agreed on in advance with PetroSA.

Proper clean-up and housekeeping after the completion of a specific job shall be seen as part of the complete job and payment may be withheld if not adhered to.

The Supplier shall be responsible for properly barricading and protecting surrounding process equipment with appropriate means like canvasses during activities performed within the process units.

Any damage to PetroSA equipment due to negligence or poor workmanship will be for the account of the Supplier.

1.5.1 Personnel

To comply with the requirements of this contract, the Supplier's personnel are required to be suitably qualified and competent in order to maintain a high level of workmanship. Before any resources will be allowed on-site, proof of competency must be made available. The following are the minimum requirements.

Designation	Minimum Experience	Qualification
Supervisor	5 years	Minimum Grade 10
Site Manager	5 years	Grade 12 / Diploma
Foreman	3 years	Minimum Grade 10
Safety Officer	3 years	Grade 12 SAMTRACT/NEBBOSH RCAT or NOSA Incident Investigation Certificate

All other training for specific tasks / areas will be done by PetroSA only if deemed necessary by PetroSA and pre-agreed by PetroSA. This shall include amongst others:

DOCUMENT NO.	DESCRIPTION	ISSUE DATE	PAGE
CTT 25165	HP CLEANING OF TANKS		4 of 5

- Regulatory training, confined space entry, working at heights, PTW
- All other internal training as required by PetroSA

DOCUMENT NO.	DESCRIPTION	ISSUE DATE	PAGE
CTT 25165	HP CLEANING OF TANKS		5 of 5