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13 September 2023

**ENQUIRY NO: AHT0000025512**

**DESCRIPTION: REFURBISHMENT OF THE FUEL TANKS AT DEPARTMENT OF DEFENSE (DOD) ARMY SUPPORT BASES in CAPE TOWN**

## **1. INTRODUCTION**

PetroSA will be planning, preparing, and executing the cleaning and maintenance work of the fuel tanks at the Department of Defense (DOD) Army Support Bases; Kenwyn(Youngs Field), Wynberg and Castle fuel stations in Cape Town, Western Cape. There fuel tanks may have been contaminated. The number of fuel tanks to be cleaned and commissioned is as follows:

### **1.1. At Kenwyn (Youngs field) Support Base:**

- a. Diesel – 14,000 litres Underground tanks
- b. Petrol - 23,000 litres Underground tanks.

### **1.2. At Wynberg Support Base:**

- a. Diesel – 23,000litres Underground tanks
- b. Petrol - 2 x 23,000 litres Underground tanks.

### **1.3. At Castle:**

- a. Petrol- 14,000 litres Underground tanks.

## 2. BACKGROUND

PetroSA conducted a visual inspection exercise at the Kenwyn, Wynberg and Castle army support base in May and September 2022. It was found that the fuel pumps were in acceptable and operable condition and had not been in service since 2019 due to suspected fuel contamination inside the tanks. According to the inspection reports, there is no information available on the year of installation of the tanks, maintenance records and other crucial information such as manuals, drawings etc. The reports also mention that the fuel pumping system looks rusty (only at Kenwyn) dilapidated and appears to have exceeded its design life. The tanks are below ground and the exterior and interior of the tank could not be inspected for signs of cracking, crazing or brittle appearance.

The visual inspection report, therefore, recommended that the fuel tanks be a thorough inspection by the facility, testing of the product and integrity testing of tanks and other parts of the system to establish if decommissioning or repair is needed. It was also recommended to immediately service the pumps and repair the electrical wiring. In addition, cleaning of tanks, compliance with HSEQ matters engineering study and cost to upgrade the facility are to be done for this site. Lastly, all damaged tanks (if any) are to be replaced and tanks should be removed, soil rehabilitated, and new tanks installed above ground.

## 3. SCOPE OF SERVICES

### 3.1 At Youngs Field Support Base:

- 3.1.1 Cleaning of the diesel – 14,000 litres Underground tank and petrol - 23,000 litres Underground tank.
- 3.1.2 **Separate water from the drained fuels and test the fuels to the SANS 342 and SANS1598 for possible re-use if within specification.**
- 3.1.3 Replace/repair leaking petrol dispenser nozzle.
- 3.1.4 Servicing of the filters
- 3.1.5 Replace the diesel cap (loading) and remove water in the loading cap vicinity.
- 3.1.6 Replace wood dipsticks with new dipsticks.
- 3.1.7 Install new fuel tank capacity – 30 000 litres each, one for diesel and one for petrol in compliance with SANS 10089-1 and SANS 10089-2
- 3.1.8 **Check and reinstate electrical systems in compliance with SANS 10089-2**
- 3.1.9 **Install Observation wells for leak and environmental monitoring as per SANS 10089**
- 3.1.10 **Perform leak tests of the tanks in compliance with SANS 10089 to ensure the tanks do not have any leaks when returned to service.**
- 3.1.11 **Perform leak test of the piping and fuel dispensing pumps/systems in compliance with SANS 10089.**

### 3.2 At Wynberg Support Base :

- 3.2.1 Cleaning of the diesel - 23,000 litres Underground tank and petrol – 2 x 23,000 litres Underground tank.
- 3.2.2 **Separate water from the drained fuels and test the fuels to the SANS 342 and SANS1598 for possible re-use if within specification.**
- 3.2.3 A new base/platform is required.
- 3.2.4 Install Observation wells for leak and environmental monitoring as per SANS 10089
- 3.2.5 Perform leak tests of the tanks in compliance with SANS 10089 to ensure the tanks do not have any leaks when returned to service.
- 3.2.6 Perform leak test of the piping and fuel dispensing pumps/systems in compliance with SANS 10089

### 3.3 At Castle:

- 3.3.1 Cleaning of the petrol – 14,000 litres Underground tank
- 3.3.2 **Separate water from the drained fuels and test the fuels to the SANS1598 for possible re-use if within specification.**
- 3.3.3 **A new diesel capacity of 14,000 litres in compliance with SANS10089**
- 3.3.4 Check and reinstate electrical systems in compliance with SANS 10089-2
- 3.3.5 Install Observation wells for leak and environmental monitoring as per SANS 10089.
- 3.3.6 Perform leak tests of the tanks in compliance with SANS 10089 to ensure the tanks do not have any leaks when returned to service.
- 3.3.7 Perform leak test of the piping and fuel dispensing pumps/systems in compliance with SANS 10089.

### 3.4 General works

#### 3.4.1 Preparation

**The contractor is to ensure that all the required safety preparations are made according to SHEQ requirements/standards.** The contractor to make sure that the site is safe to perform the fuel cleaning works. All the materials and equipment to be employed on this job should be available for PetroSA inspection and endorsement. The contractor is to present a detailed procedure on how to perform the tank cleaning activities.

#### 3.4.2 Cleaning

Pumping out and cleaning of the contaminated fuel from the semi-submerged tanks:

- a. Pump out the contaminated fuels to the temporary holding road tankers
- b. Clean the contaminated fuel tanks to avail an ullage for the fuel to be supplied by PetroSA or the contractor.
- c. This may be done manually and or with the aid of pressure washers where and if necessary or a preferred method may be proposed by the contractor. This will thereafter allow for an in-depth inspection to be carried out and therefore identification of any additional faults that may exist.
- d. Once cleaning works are complete, the contractor shall proceed with other tank inspections deemed necessary to ensure the integrity of the tank is maintained.
- e. The contractor shall carry out inspections in and around the tank in which the visual test is inconclusive where there may be signs of corrosion or any visual damage.
- f. The cleaning of the tank must be completed, and the tanks declared ready to receive and store fuel for use after it has been tested and declared not leaking and can be used for fuel storage again.

### 3.4.3 Testing

The tanks and all compartments, and all associated pipework should be tested and approved following a **South African test procedure** by a **certified tester** to establish its suitability for continued use as a storage tank/vessel.

Safety infrastructure that needs to be put in place is the following:

- a. Spill Kit
- b. Sprinkler system
- c. Foam System
- d. Fire water supply
- e. Earthing Cables
- f. A generator in case of load-shedding
- g. Replacing any missing caps, dipsticks etc.

### 3.4.4 New Built

- a. The contractor is to develop a scope of work to engineer and install new Fuel Tanks at Youngs Field and the Castle. The contractor is to ensure that all required permits associated with the installation of new fuel tanks are identified and requirements are adhered to.

#### **4. Safety Requirements**

##### **i. Making the tanks safe**

The contractor must provide details of recognized methods of making tanks temporarily safe during the execution of the tank cleaning work and decommission (if required).

##### **ii. Fuel/water drainage**

The contaminated fuel in both the diesel and petrol tanks is to be analysed to SANS 342 and SANS1598 for possible re-use if within specification. Fuel/Water separation system to be used to separate and remove as much water from the contaminated fuel as possible, to possibly enable reuse if within specification. In the event the contaminated fuel does not meet the specifications for petrol and diesel, the fuel should be uplifted and removed from the tanks and recycled or disposed of at a safe location.

The discarded contaminated fuel must be handled by a competent hazardous waste disposal contractor to remove any liquid or sludge contained in the tanks.

The contractor should make sure that the fuel/water separator outlet is sealed and capped off at the site boundaries and to the drainage system within the site.

#### **5. ENQUIRIES**

Any enquiries regarding this tender should be addressed to **Banzi Dlamini** in the Tender Office at telephone no. 021 929 3202 or e-mail address [banzi.dlamini@petrosa.co.za](mailto:banzi.dlamini@petrosa.co.za)

Yours faithfully

**COMFORT BUNTING**

**Group Supply Chain Manager**