

SPECIFICATION RT57-03-08

2,000-LITER REFUELING TANKER TRUCK

A diesel tank with a minimum capacity of 2,000 litres, of robust construction, fitted with a PTO driven hydrostatic system, complying to the following is required:

ACTS AND REGULATIONS

This conversion must be fully in compliance with ALL ACTS and REGULATION regarding the transporting of DANGEROUS GOODS

TANK

The diesel tank with a minimum capacity of 2,000 litres must fully comply with specification SANS 1518.

1. DIMENSIONS

Tenderers must offer the best body length to suit their chassis, taking correct mass distribution, appearance and additional equipment at the rear into account.

Supply actual dimensions of tank body (LxWxH) _____mm x _____mm x _____mm

Particulars of offer: _____

2. MOUNTING OF TANK:

Mountings shall be used to prevent the transfer of stresses from chassis to the tank shell.

Tank mountings shall be suitable and allow for the removing and / or remounting of the tank.

Tank to be positively located at front and rear to prevent tank from moving in relation to chassis.

Method of location shall however still allow the tank to be flexibly mounted on chassis.

Details of mountings (must be supplied).

Particulars of offer: _____

3. TREATMENT OF TANK SURFACES:

All inside and outside surfaces of tank shall be thoroughly cleaned.

Fixtures welded to tank shall be seal welded all round to obviate any crevices.

Tank and accessories shall be free from:

- welding slag and cavities in weld
- burrs caused by screwing, tapping, punching, drilling and machining
- paint or other coating that is not removable by alkaline cleaning or acid pickling

Particulars of offer: _____

4. BREATHER:

A suitable breather fitted with a suitable air filter must be fitted and protected to prevent the ingress of dirt.

Particulars of offer: _____

5. SIGNAGE

Dangerous Goods placards of 700 mm x 400 mm mounted on **both sides and the rear** of the vehicle and suitable brackets are in place to secure placarding

This must be in accordance with SANS 10232-1: 2007 edition 3.

Particulars of offer: _____

6. DOCUMENTATION HOLDER

Designated space-container, of colour orange and marked with the word "DOCUMENTS" in black, and shall be permanently fixed in a clearly visible space near the centre of the cab so as to be easily accessible from either door or through a broken front window.

Particulars of offer: _____

7. FIRE EXTINGUISHER

Vehicles conveying Dangerous Goods must be equipped with prescribed portable fire extinguishers of the Dry Chemical Powder (DCP) type, according to SANS 1518.

Particulars of offer: _____

8. MUDGUARDS:

Sturdy, firmly braced steel mudguards, full size, must be fitted over the rear wheels with mud flaps behind the wheels.

Particulars of offer: _____

9. SUB-FRAME:

The sub-frame cross bearers must be fabricated of not less than 100mm x 50mm rolled steel channels, at 300mm centres. The longitudinal runners must be not less than 152mm x 76mm rolled steel channels.

Particulars of offer: _____

10. FINISH:

All metal shall be thoroughly cleaned and primed and painted with two coats of prime and good quality automotive enamel to match the departments colour spec.

Particulars of offer: _____

PUMP EQUIPMENT

1. Pump

- 1.1 A fuel dispensing pump that can deliver 50 l/min is required. The fuel pump is to be driven hydraulically from a PTO mounted hydraulic pump
- 1.2 The hydraulic pump must be driven off the gearbox power take-off of the truck and must be pneumatically controlled by an on-off hydraulic control valve to operate the fuel dispensing pump is to be mounted in the cab within easy reach of the driver.

2. Piping

- 2.1 A heavy duty retractable hose reel with a 5m long hose, complete with swivel and controllable dispensing nozzle, is required.
- 2.2 A suitable holding device for the hose and nozzle.
- 2.3 The nozzle must be protected to prevent the ingress of dirt
- 2.4 A shut off valve is to be fitted immediately at the tank outlet
- 2.5 An in line water trap and a separate 2-micron spin on type fuel filter (UDF or similar) are to be fitted after the shut off valve and before the dispensing pump. These filters must be capable of handling the full pump flow rate

3. Meter

- 3.1 A digital, lockable flow meter must be installed

4. Housing compartment

- 4.1 The fuel dispensing equipment to be housed in a secure, lockable, robust, dust proof compartment.

Particulars of offer: _____

Optional extra 1. Compressor

1. A 250l/min 2 stage air cooled air compressor complete with Intake air filter, intercooler and air cooled after cooler
2. The output must be 250l/min free air at 700kPa
3. The compressor is to be hydraulically driven by the PTO mounted pump.
4. A separate on-off hydraulic control valve to operate the compressor is to be mounted in the cab adjacent to that for the fuel pump.
5. Unloading valve for starting
6. Adequate guards over belts and pulleys.
7. A 100l compressed air receiver (tank), fitted with a drain valve is required.
8. A 25mm receiver header stop valve must be fitted.
9. A minimum working pressure of 1000kPa is required.
10. An automatic pressure regulator adjustable for working pressures from 700kPa to 1000kPa
11. A pressure gauge and an in line water trap must be fitted.
12. A Safety valve must be fitted.
13. The air supply must be connected to an in line tyre inflator for inflating and deflating tyres up to 10 bar pressure.
14. A heavy duty, retractable air hose reel, with 9m hose complete with quick coupler and ball stop.
15. The compressor and equipment are to be mounted in a secure, lockable, robust compartment which may be combined with the pumping equipment.

Particulars of offer:

Optional extra 2. Oils compartment

A strong lockable storage container with sub-compartments to house the following items is required. This may be combined with the pumping equipment.

1. Four 20l drums of top up oil
2. One 20kg grease drum with grease gun
3. A suitable **oil spill kit**. This kit is to be supplied with the truck and is to contain as a minimum one 5kg bag of absorption medium, gloves, goggles, dust mask, dust pan and broom and a shovel. The absorption medium must contain organisms to convert a 20 litre hydrocarbon spill into bio-degradable products.
4. These compartments are to be such that the drums are secured to prevent excessive movement and spillage while the truck travels over rough terrain

Particulars of offer: _____
