

## SPECIFICATION RT57-09-03-04

### HEAVY DUTY 4X4 TRACTOR (90 kW) FULLY ENCLOSED CAB

#### SPECIFICATION

#### DETAILS OF OFFER

##### 1. DESCRIPTION

A heavy duty 4X4 Tractor with an operating mass of at least 3800 kg.

It must be powered by a Diesel engine with a power output of at least 90 kW.

##### 2. ENGINE

The tractor must be powered by a Diesel engine with a maximum power output of at least 90 kW.

A Maximum Torque of at least 330 Nm at 1500rpm measured to the ISO/TR 14396 standard.

The engine should be suitable for operation with RSA specification diesel fuel (500ppm).

##### Air Cleaner

Engine should be fitted with a dry type air cleaner with cyclonic pre cleaner serviceable main element, serviceable safety element, and

an air cleaner service indicator (informer type) mounted directly at the inlet duct. (or any type of efficient air cleaning system – approved by manufacturer),

##### Filters

Full flow disposable fuel and lubricating oil filters must be fitted.

A fuel/water separator must be fitted

The fuel/water separator must be positioned where it can be inspected on a regular basis, and thus easily accessed and maintained.

##### Component Breathing Systems

All components' breathers e.g. transmission, differential, hydraulic tank and fuel tank shall be fitted with filtration systems designed to prevent the entry of contaminants.

Breathing system Maintenance Procedures shall be included in the maintenance manual.

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### **Cooling System**

The engine should be fitted with a monitoring system

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In case of a malfunction, the system should warn the operator using a buzzer and warning light.

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It must keep track of features such as oil pressure, water/oil temperature, water level and transmission temperatures.

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### **Engine Starting System**

A heavy duty engine starting system is required, in order to ensure start-ups at temperatures as low as -5°C.

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## **3. ELECTRICAL WORKS**

An efficient electrical system should be installed in order to insure effective operation of the machine. The electrical components must include the following standard features.

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The tractor should be fitted with a horn and 7 pin trailer socket.

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## **4. CAB**

The Tractor should be fitted with a fully enclosed cab with ROPS.

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The cab must be fitted with safety glass and rear-view mirrors.

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The operator's seat should be suspended and adjustable.

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The operator should have access to all controls. All electronic warning signals should be visible to the operator at all times.

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The operator should be able to view the hour meter, oil and temperature gauges when needed.

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## **5. P.T.O**

A dual clutch, pedal operated PTO should be fitted.

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## **6. UNDERCARRIAGE**

The ground clearance should not be less than 380 mm under the drawbar and 450 mm under the front axle.

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The Steering wheel must be adjustable

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## **7. BRAKES**

The brakes must be foot controlled. Multiple disc service brakes must be used on all drive wheels.

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An emergency braking system should be fitted, in case of engine stall or brake failure.

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## **8. HYDRAULICS**

The Tractor should be fitted with a 3-Point-Lift system with maximum lift capacity at link ends. Capacity of at least 3000 kg.

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### **Trailer Braking**

The tractor should have hydraulic couplings  
These will be used to attach hydraulic points

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The tractor should be compatible with a trailer using a hydraulic braking system

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## **9. PAINT**

The tractor must be painted with 2K paint

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Standard factory colours may be used

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## TECHNICAL SCHEDULE

### SPECIFICATION

### DETAIL

#### 1. DESCRIPTION

Manufacturer

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Model

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Power Rating

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Torque

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Operating Weight

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4x4

Yes/No

Can the tractor pull a 12 000 kg trailer

Yes/No

#### 2. ENGINE

Engine Manufacturer

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Engine Model.

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Type

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Emission Standard

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Maximum Net Output Power

\_\_\_\_\_ kW @ \_\_\_\_\_ rpm

Maximum Net Torque

\_\_\_\_\_ Nm @ \_\_\_\_\_ rpm

Displacement

\_\_\_\_\_(L)

Diesel Use

\_\_\_\_\_(ppm sulphur)

#### Air Cleaner

Details

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Serviceable safety element

Yes/No

Service Indicator

Yes/No

## Filters

Details of Filters

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Position of Separator

Type of water drain

## Breathers

Which components are fitted with breathers

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## Cooling System

Coolant Type

Cooling mechanism

Details of Cooling System

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Engine monitoring device

## 3. ELECTRICAL SYSTEM

Windscreen Wipers

Yes/No

Head Lights

Yes/No

Brake Lights

Yes/No

Parking Lights

Yes/No

Rear Working Lamp

Yes/No

Direction Indicators  
Horn

Yes/No  
Yes/No

7-Pin Trailer Socket

Yes/No

#### 4. CAB

Enclosed	Yes/No
Adjustable seat	Yes/No
Access to all controls	Yes/No
Adjustable Steering	Yes/No
ROPS	Yes/No

#### 5. POWERTRAIN

Number of Gears	_____
Forward Gears	_____
Reverse Gears	_____
Maximum Travel Speed	_____
Number of Driving Wheels	_____

#### 6. PTO

Details	_____ _____
Speed	_____ _____ rpm @ _____ rpm (eng)

#### 7. UNDERCARRIAGE

Space Under drawbar	_____ mm
Space Under front axle	_____ mm

#### 8. TYRES

Type	_____
Front Size / Ply rating	_____
Rear Size / Ply rating	_____

## 9. STEERING

Type	_____
Adjustable	_____
Turning Arc	_____ mm

## 10. BRAKES

Type	_____
Parking Brakes	Yes/No
Service Brakes	Yes/No

## 11. Hydraulics

3-point lift	Yes/No
Maximum Load Capacity	_____
Hydraulic Couplings	Yes/No

## Trailer Braking

Details	_____ _____ _____
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## 12. PAINT WORK

Details of Paint Work	_____ _____
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