

## SPECIFICATION RT57-09-04-01

### 12 TON SINGLE DRUM ROLLER (88kW) ENCLOSED CAB

COMPLY / NOT COMPLY

#### 1. Description

A diesel powered smooth roller

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With an operating weight of no less than 12 000 kg

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A Static linear load of no less than 25 Kg/cm

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#### 2. Engine

The equipment offered should have a water cooled  
4 cylinder turbo charged diesel engine

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The engine should deliver a net power of at least 88 kW

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

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#### Air Cleaner

The engine should be fitted with a dual element, dry type  
air cleaner.

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#### Filters

Full flow disposable fuel and lubricating oil filters as well  
as a fuel/water separator must be fitted.

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The fuel/water separator must be positioned where it can  
be inspected on a regular basis, and thus easily  
accessible for maintenance

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#### Cooling system

Must be water and oil cooled with fan.

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Radiator cores must have large spaces between them, for  
efficient cooling and easy cleaning.

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### 3. DRIVE

The equipment should have a dual pump and motor hydrostatic drive, one driving the drum and one driving the rear wheels

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The roller should have a high range speed not exceeding 13 Km/h and a low range speed not exceeding 8 Km/h

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A Gradeability with or without vibration of not less than 45 % is required.

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### 4. BRAKES

The machine should be fitted with service and parking

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Also a release pump to allow the manual release of the parking brakes for towing purposes

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### 5. STEERING

The roller should have a smooth low effort steering system

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An inner turning radius of not more than 3700 mm

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Oscillation angle of not less than 12 ° in each direction

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Steering angle of not less than 32° in each direction

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### 6. TYRES

The tyres fitted to the equipment (brand, size and type) should be readily available in RSA.

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### 7. CAB

The equipment should have a fully enclosed cab equipped with roll over protection (ROPS)

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The operator's seat should be suspended and adjustable

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An instrument panel should be fitted in clear view of the operator, warning the operator with a light and audible warning horn if a problem occurs.

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The system should monitor at least Low engine oil pressure, High engine coolant temperature, High hydraulic oil temperature, Low change in system pressure.

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An alternator malfunction warning device, hour meter and fuel gauge should also be fitted.

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## **8. FRAME**

The frame should be manufactured from heavy gauge steel plate and rolled sections.

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The articulation area should be structurally reinforced and joined by hardened steel pins.

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A safety lock should prevent the equipment articulating when placed in the lock position

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## **9. VIBRATORY SYSTEM**

The system should have variable amplitude settings

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Low amplitude not exceeding 0.90 mm and high amplitude not less than 1.68 mm

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The equipment should also have a variable centrifugal force

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Minimum centrifugal force not exceeding 205 kN and a Maximum force not less than 230 kN

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The drum width should be between 2000 and 2300 mm

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## **10. OPERATOR AND MACHINE PROTECTIVE EQUIPMENT**

The equipment should be fitted with the following safety equipment

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Backup alarm, forward warning horn, seatbelt, rotating beacon light, front and rear working lights.

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## 11. OPERATING WEIGHT

The equipment should have an unballasted operating weight of no less than 12 000kg.

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A Static linear load of no less than 25 Kg/cm

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A drum-axle load of no less than 7000 Kg

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## 12. PAINT

The roller must be painted with a durable 2K paint.  
Colour: Golden Yellow

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The bonnet must be painted with a durable 2K paint.  
Colour: Brunswick Green

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## OPTIONAL EXTRAS

### 1. Pad-Foot Shell Kit

The machine offered above should allow for installation of a padfoot shell kit

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The padfoot shell should be easily installable on the machine.

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The set should be supplied with scrapers, installable on the drum assembly

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The scrapers will be used to prevent material build-up on the shell during operation.

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## TECHNICAL SCHEDULE

### SPECIFICATION

### DETAILS OF OFFER

#### 1. DESCRIPTION

Smooth Drum Roller	Yes/No
Diesel Engine powered	Yes/No
Operating Weight	_____ kg
Drum Axle Load	_____ kg
Brand Name	_____
Model Number	_____

#### 2. ENGINE

Engine Manufacturer	_____
Engine Model.	_____
Type	_____
Emission Standard	_____
Maximum Net Output Power	_____ kW @ _____ rpm
Maximum Net Torque	_____ Nm @ _____ rpm
Displacement	_____ (L)
Diesel Use	_____ (ppm sulphur)

#### Air Cleaner

Details	_____
	_____
	_____

Serviceable safety element	Yes/No
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Service Indicator	Yes/No
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## Filters

Details

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Position of Separator

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Type of water drain

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Cooling system

Water / Oil Cooled Radiator cores

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Fan fitted

Yes/No

## 3. DRIVE

Speeds:

Low range speed

\_\_\_\_\_ km/h

High range speed

\_\_\_\_\_ km/h

Gradeability

\_\_\_\_\_ %

Details of drive system

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## 4. BRAKES

Details of service brakes

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Details of parking brakes

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Manual Pump Fitted

Yes/No

## 5. STEERING

Inner Turning Radius

\_\_\_\_\_ mm

Oscillation Angle

\_\_\_\_\_

Steering Angle.

\_\_\_\_\_

Details of Steering

\_\_\_\_\_  
\_\_\_\_\_

## 6. TYRES

Brand name

\_\_\_\_\_

Type

\_\_\_\_\_

Ply Rating

\_\_\_\_\_

Size

\_\_\_\_\_

Tyres readily available in RSA

Yes/No

## 7. CAB

Does the Cab comply to all listed specifications

Yes/No

Enclosed

Yes/No

ROPS

Yes/No

Adjustable seat

Yes/No

Access to all controls

Yes/No

Details Of Cab

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 8. FRAME

Details of frame construction

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Safety Pin in Articulation area

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## 9. VIBRATORY SYSTEM

Low Amplitude

\_\_\_\_\_ mm

High Amplitude

\_\_\_\_\_ mm

Minimum Force

\_\_\_\_\_ N

Maximum Force

\_\_\_\_\_ N

Drum Width

\_\_\_\_\_ mm

Operating Weight

\_\_\_\_\_ kg

Drum Axle Load

\_\_\_\_\_ kg

Static Linear Load

\_\_\_\_\_ kg/cm

## 10. OPERATOR AND MACHINE PROTECTIVE EQUIPMENT

Full details of Safety Equipment

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## 11. PAINT

### Body paint

Paint Type

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Colour

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### Bonnet paint

Paint Type

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Colour

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