

## SPECIFICATION RT57-09-04-03

### DOUBLE DRUM WALK-BEHIND ROLLER (650kg) HYDROSTATIC DRIVEN or MECHANICALLY DRIVEN – 600mm to 650mm WIDTH

#### 1. SERVICE

#### COMPLY / NOT COMPLY

The service to be rendered is the supply and delivery of the following items in working conditions and test run:

Small size walk-behind double drum rollers (600 – 650 mm)

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#### 2. DUTY

The rollers shall be used for general compaction. They shall be hand operated by a single operator.

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#### 3. OPERATING MASS

The equipment shall have an un-ballasted operating weight of no less than 650 kg.

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#### 4. DRUM

The drum shell shall be of sufficient thickness to withstand the rigours of service.

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The drum working width shall not be less than 600 mm.

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#### 5. DRIVE

The equipment should have a hydrostatic or mechanical travel drive system.

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A maximum travel forward and reverse speed not exceeding 6 km/h and 2.8 km/h respectively

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A Gradeability with or without vibration of not less than 30% is required.

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The system must have an automatic shutdown at low oil level.

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#### 6. Vibratory System

The vibration must be on both the front and rear drums

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The drums must have a maximum amplitude of no less than 0.40 mm

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And a centrifugal force of no less than 11 kN

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A maximum frequency of at least 50 Hz

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## 7. ENGINE

The equipment offered should have an air cooled 1 cylinder diesel engine.

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delivering a net power of at least 4kW

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

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### Air Cleaners and Filters

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

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Full flow disposable fuel and lubricating oil filters

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A fuel/water separator must be fitted. The separator must be positioned where it can be easily seen, easy to inspect and to clean and drain if necessary.

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## 8. BRAKES

The equipment should be fitted with a service brake

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And also parking brake

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Emergency stop

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## 9. TRANSMISSION

A hydrostatic drive system is required.

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The roller shall have a climbing ability of up to 30% with and without vibration respectively.

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Both drums shall be driven.

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It shall be possible to drive the roller comfortably and efficiently in the forward and reverse directions.

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## 10. SPRINKLER SYSTEM

The machine must have a gravity-fed water sprinkler system. It must also have full length scrapers on both drums

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## 11. CONTROL ARM

The machine should be steered using a control arm.

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The control arm must be height adjustable

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Vibration must be dampened on the control arm.

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Must also have engine speed regulation.

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Forward and reverse selection

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A safety control lever and back-up drive protection.

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## TECHNICAL SCHEDULE

	SPECIFICATION	DETAILS OF OFFER
1.	<b>MAKE AND MODEL</b>	
	Make	_____
	Model	_____
	Manufacturer	_____
	Country of origin	_____
	Year of manufacture	_____
2.	<b>ENGINE</b>	
	(a) Make	_____
	(b) Model	_____
	(c) Net power output (as specified)	_____kW
3.	<b>OPERATING MASS</b>	
	Operating mass of complete machine	_____kg
4.	<b>AIR CLEANER</b>	
	(a) Make and model	_____
	(b) Does the air cleaner have a safety element?	YES / NO
	(c) Is the safety element locally made?	YES / NO
	<b>Filters</b>	
	(a) Fuel Water Separator fitted?	YES / NO
5.	<b>BRAKES</b>	
	Type	_____
	Service Brakes	YES / NO
	Parking Brakes	YES / NO
		<b>DETAILS OF OFFER</b>
	If the brakes fail, is there a safety system (give details)	_____

## 6. COMPACTION

Total combined mass of drums	_____
Maximum Amplitude	_____mm
Maximum Frequency	_____Hz
Minimum Force	_____N
Maximum Force	_____N
Drum Width	_____m

## 7. DRIVE

Maximum travel Speed: Forward	_____km/h
Maximum travel Speed: Reverse	_____km/h
Gradeability: With Vibration	_____%
Without Vibration	_____%
Hydrostatic or Mechanical Drive	_____

## 8. STEERING

### Control Arm

Height adjustable	YES / NO
Vibration Dampening	YES / NO
Engine Speed regulation	YES / NO
Safety lever at steering rod	YES / NO
Back-up drive protection	YES / NO

## 9. PAINT

Type of Paint	_____
Bonnet Colour	_____
Body Colour	_____

**10. GENERAL**

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|-----|---|----------|
| (a) | Are all the required accessories fitted/provided?         | YES / NO |
| (b) | Are all drawings, brochures, graphs and sheets submitted? | YES / NO |
| (c) | Is the offer completely to specification?                 | YES / NO |

(d) State all deviations from the specifications

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