

SPECIFICATION RT57-09-04-04

DOUBLE DRUM WALK-BEHIND ROLLER (760kg) HYDROSTATIC or MECHANICALLY DRIVEN – 700mm to 750mm 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:

700 – 750 mm walk-behind double drum rollers

2. DUTY

The roller shall be used for general compaction. It shall be hand operated by a single operator.

3. OPERATING MASS

The equipment shall have an unballasted operating weight of no less than 760 kg.

4. DRUM

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

The drum working width shall not be less than 700 mm.

5. DRIVE

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

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

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

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

6. Vibratory System

The vibration must be on both the front and rear drums

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

And a maximum centrifugal force of no less than 15 kN

Must have a frequency of no less than 50 Hz

7. ENGINE

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

delivering a net power of at least 4.8 kW

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

Air Cleaners and Filters

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

Full flow disposable fuel and lubricating oil filters

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.

8. BRAKES

The equipment should be fitted with a service brake

And also parking brake

Emergency stop

9. TRANSMISSION

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

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

Both drums shall be driven.

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

10. SPRINKLER SYSTEM

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

11. CONTROL ARM

The machine should be steered using a control arm.

The control arm must be height adjustable

Vibration must be dampened on the control arm.

Must also have engine speed regulation.

Forward and reverse selection

A safety control lever and back-up drive protection.

TECHNICAL SCHEDULE

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

6. COMPACTION

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

- | | | |
|-----|---|----------|
| (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
