

SPECIFICATION RT57-09-03-05

HEAVY DUTY PERMANENT 4X4 , ARTICULATED INDUSTRIAL TOW TRACTOR (150kW) FULLY ENCLOSED CAB

COMPLY / NOT COMPLY (*Delete/Cross-Out whichever is not applicable)

Noted

(Bidder to initial each noted item)

1. **NOTE. Equipment supplied against this specification must also comply with the General Specification for earth moving equipment**

*Comply / Not Comply
2. **FUNCTION**

The tow tractor is required to pull a 13.5 ton grid roller at in excess of 30km/h during road construction. It is to be permanent four-wheel drive with articulated steering. Agricultural tractors are not suitable.

*Comply / Not Comply
3. **OPERATING MASS**

The operating mass of the tractor, when fully equipped as specified (ballasted) shall not be less than 12 000 kg.
The unballasted mass of the tractor is to be not less than 10 000kg.

*Comply / Not Comply

Mass certificates shall be supplied with bidder's offer.

*Comply / Not Comply
4. **ENGINE**

The net power output of the diesel engine shall not be less than 150 kW. This power rating must apply in all gears.

*Comply / Not Comply

The net torque shall be not less than of 770 Nm at an engine speed of less than 1 500 rpm.

*Comply / Not Comply

The engine shall be turbo charged.

*Comply / Not Comply

The engine shall be fitted with an engine cut out to prevent excessive idling.

*Comply / Not Comply
5. **TRANSMISSION**

The transmission shall incorporate not less than six forward and one reverse speed.

*Comply / Not Comply

Drive must be permanently to all four (4) wheels

*Comply / Not Comply

Road speed attainable must be not less than 40km/h.

*Comply / Not Comply
6. **BRAKES**

The tractor is to be equipped with power-assisted or fully powered service brakes acting on all four wheels together.

*Comply / Not Comply

A separately actuated, mechanical parking brake shall be fitted.

*Comply / Not Comply
7. **TYRES**

All tyres must be of the same size with an E3 tread pattern, and with a minimum of 12-ply rating

*Comply / Not Comply

8.	CAB	
	The cab shall be fitted with a roll over protective structure (ROPS).	*Comply / Not Comply
9.	LIGHTING AND ELECTRICAL	
	An orange rotating light shall be fitted on the roof of the cab in accordance with the OHS Act of 1993.	*Comply / Not Comply
10.	HITCH	
	The tractor is to be fitted with a pin type hitch. The pin must be 50 mm in diameter and the centre of the hitch must be no less than 420 mm above ground level. The distance between the hitch eyes must not be less than 75 mm.	*Comply / Not Comply
	The hitch must be supplied complete with pin.	*Comply / Not Comply
11	OPTIONAL EXTRAS	
	The following optional extras are to be quoted for separately	
11.1	ENGINE MONITORING SYSTEM	
	An engine monitoring system (Sentinel/ Lubrivent or equivalent) as specified in the General Conditions.	*Comply / Not Comply
11.2	UDF FILTER	
	The fitment of a UDF (Ultrafine Depth Filtration) diesel fuel filter as specified in the General Conditions.	*Comply / Not Comply
11.3	OIL SAMPLING VALVES	
	The fitment of oil sampling valves as specified in the General Conditions.	*Comply / Not Comply
11.4	SERVICE PLAN	
	1000h, 2000h and 3000h full maintenance service plans as specified in the General Specifications	*Comply / Not Comply
11.5	NUMBER PLATES	
	Supply of 2 number plates as specified in the General Specifications.	*Comply / Not Comply
11.6	LICENSING ON NATIS	
	Licensing on NATIS as specified in the General Specifications.	*Comply / Not Comply
11.7	WEST COAST PAINT SPECIFICATION	
	Painting to the "West Coast" specification as specified in the General Specifications.	*Comply / Not Comply
11.8	MANUALS	
	Operators, workshop and spares manuals as specified in the General Specifications.	*Comply / Not Comply
11.9	ORANGE LED LIGHT STRIPS	

The fitment of orange LED light strips to the cab as specified in the General Specifications.

*Comply / Not Comply

11.10 TRAINING

Training of operators and mechanics in terms of the General Specifications.

*Comply / Not Comply

TECHNICAL SCHEDULE

The Technical Schedule must be completed in full; failure to comply will invalidate your bid

Clearly delete/cross-out whichever is not applicable at YES/NO questions

DETAILS OF OFFER

1. MAKE AND MODEL

Make

Model

Manufacturer

Country of origin

Year of manufacture

2. OPERATING MASS

Complete machine (ballasted).

_____ kg

Unballasted

_____ kg

3. ENGINE

(a) Make

(b) Model

(c) Net power output (as specified)

_____ kW

(d) Net torque output (as specified)

_____ Nm

At rpm

_____ rpm

(e) Maximum governed speed

_____ rpm

(f) Fuel consumption at full load.

4. TRANSMISSION

(a) Make

(b) Model

(c) Powershift?

YES / NO

(d) Number of speeds:

- Forward

- Reverse

- Maximum forward speed: 1st

_____ km/h

2 nd	_____ km/h
3 rd	_____ km/h
4 th	_____ km/h
5 th	_____ km/h
6 th	_____ km/h
7 th	_____ km/h
8 th	_____ km/h

5. TYRES

Tyre size and ply _____

7. AIR CLEANER

(a) Make and model _____

(b) Safety element make and model _____

8. OPTIONAL EXTRAS

Have the optional extras been quoted for? YES / NO

9. GENERAL

(a) Are all the required accessories fitted? 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 _____

(e) Has the General Specification been completed? YES / NO

Please note that failure to furnish all required technical specifications, brochures and information of products offered will invalidate the Bid.