	SCOPE OF WORK For ERI to Procure Service trucks	Unique Identifier	
		Revision	Rev. 0
		Revision Date	

Title: **To supply and deliver two fully equipped 4-ton Service Trucks**

Document Identifier:

Alternative Reference Number:

Not Applicable

Area of Applicability:

Eskom Rotek Industries
SOC Ltd

Functional Area:

Bulk Material Services-

Revision:

0

Total Pages:

Next Review Date:

Disclosure
Classification:

Controlled Disclosure

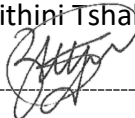
Compiled by

Voli Sompa



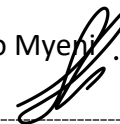
Functional Responsibility

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Date: 31 January 2022

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1. Background

Bulk Material Services (BMS) utilizes mobile equipment such as Bulldozers, Front End Loaders, Motor Graders, Articulated Dump Trucks, and Excavators etc. These mobile equipment and machinery are critical to BMS operations. The following are BMS' major operations that utilize these mobile plants:

- The stockpiling, reclaiming and feeding of coal at the various conveyor belts transporting the coal into the Coal Plant for storage in coal bunkers for power generation
- Handling of ash at the ash facilities to comply with environmental and safety legislation
- Removal and storage of the ash product generated by the Boilers
- Rehabilitation in and around ash dam areas and maintenance of coal infrastructure equipment.

Service Trucks are used for the maintenance of these machines on the various sites and Power Stations

2. Scope of Work

- To supply and deliver two fully equipped 4-ton Service Trucks


3. Chassis Cab – Technical Requirements

3.1 Vehicle

- 3.1.1 Axle layout 4X2 drive
- 3.1.2 Forward Control
- 3.1.3 Rigid Application

3.2 Mass

- 3.2.1 Permissible body + payload 5,885 kg
- 3.2.2 Tare - total (T) * 2,615 kg
- 3.2.3 GVM 8,500 kg
- 3.2.4 V 8,500 kg
- 3.2.5 GCM 10,500 kg
- 3.2.6 D/T 10,500 kg
- 3.2.7 Axle - front GA/GAU 3,100 kg

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- 3.2.8 Axle - front A/AU 3,100 kg
- 3.2.9 Axle - rear GA/GAU 6,200 kg
- 3.2.10 Axle - rear A/AU 6,200 kg
- 3.2.11 150 Liter fuel tank included in tare
- 3.2.12 Spare wheel included in tare Yes

3.3 Performance

- 3.3.1 Gradeability at V 59.8 %
- 3.3.2 Gradeability at D/T
- 3.3.3 Max. geared road speed * 100 km/h
- 3.3.4 Limited to 80km/h if GVM > 9000kg
- 3.3.5 100km/h if GVM > 3500kg and <= 9000kg

3.4 Major dimensions

- 3.4.1 Overall length 7,285 mm
- 3.4.2 Overall width 2,055 mm
- 3.4.3 Wheelbase 4,200 mm
- 3.4.4 CA - cab to bogie/rear axle 3,645 mm
- 3.4.5 Chassis Width Rear 750 mm
- 3.4.6 Turning circle - curb to curb (radius) 7,400 mm
- 3.4.7 Turning circle - wall to wall (radius) 8,100 mm


3.5 Engine

- 3.5.1 Capacity 4,009 cm³
- 3.5.2 Layout Diesel inline 4
- 3.5.3 Type Turbo intercooled
- 3.5.4 Power at r/min 110.0 kW @ 2,800 - 2,800 Rpm
- 3.5.5 Torque at r/min 420.0 @ 1,400 - 1,400 Nm
- 3.5.6 Emissions standard Euro 3

3.6 Transmission

- 3.6.1 Type Automatic
- 3.6.2 Shift Automatic
- 3.6.3 No. of gears forward 6.0000
- 3.6.4 First gear ratio 3.7420
- 3.6.5 Top gear ratio 0.6340

3.7 Drive axle

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3.7.1 Model Temp Rear - 4 Tyres (6200kg)

3.7.2 Reduction type Single

3.7.3 Final ratio 5.1420

3.8 Suspension

3.8.1 Front Semi elliptic multi leaf

3.8.2 Rear Semi elliptic multi leaf

3.8.3 Shock absorbers Front and rear

3.8.4 Stabilisers

3.9 Steering

3.9.1 Operation Power

3.10 Brakes

3.10.1 System type Hydraulic vacuum

3.10.2 Front Drums

3.10.3 Rear Drums

3.10.4 Anti-lock braking system (ABS) Standard

3.10.5 Park/emergency system Mechanical transmission

3.10.6 Exhaust brake Standard

3.10.7 Engine brake No

3.10.8 Retarder

3.11 Electrical & fuel

3.11.1 Fuel tank capacity 150 ltrs

3.12 Tyres

3.12.1 Make - front Not Specified

3.12.2 Size and ply rating - front 215/75R17.5

3.12.3 Make - rear Not Specified

3.12.4 Size and ply rating - rear 215/75R17.5

3.13 CAB & extras

3.13.1 Type Day


3.13.2 Roof Low

3.13.3 No. of seats 3

3.13.4 Air-conditioning Standard

3.13.5 Radio Standard

3.13.6 Tachograph

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- 3.13.7 Hour meter
- 3.13.8 On-board computer
- 3.13.9 Central door lock
- 3.13.10 Window Control
- 3.13.11 Tilt cab Yes

4 Service Unit - Technical Requirements

4.1 Service Unit Powering

- 4.1.1 Powered by Hydraulic pump on P.T.O
- 4.1.2 P.T.O function to be controlled from the Cab and Control Valve mounted in the Reel Cabin to select function
- 4.1.3 Hydraulic Pump to power hydraulic driven 30CFM 200L Compressor.
- 4.1.4 Hydraulic Pump to power hydraulic driven Pressure Washer.
- 4.1.5 Oil and grease Pump must be pneumatic powered.


4.2 Tank Capacities

- 4.2.1 1 x 100L Tank (Pressure Washer)
- 4.2.2 1 x 200L Tank (Hydraulic oil)
- 4.2.3 1 x 100L Tank (Engine oil)
- 4.2.4 1 x 100L Tank (Compressor Oil)
- 4.2.5 1 x 100L Tank (Gear Oil)
- 4.2.6 1 x 100L Tank (Used Oil)
- 4.2.7 1 x 50L Tank (High Pressure Grease)

4.3 Tank Fittings (standard)

- 4.3.1 Side glass level indicators (50L Grease Tank fitted with dipstick)
- 4.3.2 Breathers
- 4.3.3 Lockable 100mm Filler Caps
- 4.3.4 Rubber mounted to chassis
- 4.3.5 Removable inspection lids

4.4 Pump capacities

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- 4.4.1 Pneumatic 5:1 Oil Stub Pump with Capacity +/- 18L/min
- 4.4.2 Pneumatic 50:1 Grease Pump
- 4.4.3 Pneumatic Double Diaphragm Pump used Oil
- 4.4.4 Each Oil discharge must be through Donaldson Filter to 3/8' reel fitted with Flow Meters Control Handle

4.5 Reel Box

- 4.5.1 6 x 3/8' High pressure 15mm Hose Reel
- 4.5.2 1 x Pressure Washer gun
- 4.5.3 5 x 3/8 Flow meter
- 4.5.4 5 x 3/8 Lockable Control Handles

4.6 Additional

- 4.6.1 1 x 3kva diesel driven generator body mounted in a lockable box
- 4.6.2 6 x LED Work Lamps fitted on Service Station
- 4.6.3 2 x 9kg Fire Extinguisher mounted on each side
- 4.6.4 3 x Rotating Lights fitted on Truck Cab, and two fitted on Service Unit
- 4.6.5 Service Station Sandblasted and Painted White
- 4.6.6 4 x Plant number Stickers
- 4.6.7 Reflecting Tape on Service Unit-Yellow Sides and red Back
- 4.6.8 Labeling of Reels and Tanks
- 4.6.9 Hazchem stickers on the sides and rear of the truck


4.7 Warranty

- 4.7.1 24 Months unlimited Km's

4.8 Delivery of Equipment

- 4.8.1 Delivery of Equipment 1 within **SIX** weeks of order
- 4.8.2 Delivery of Equipment 2 within **EIGHT** weeks of order
- 4.8.3 Commissioning of product must be within 3 days after delivery in Rosherville, Johannesburg

4.9 Vehicle Classification

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4.9.1 Vehicle must be registered in the dangerous goods category and the appropriate paperwork should be submitted with delivery