

## **1. Scope**

This specification is for an automatic transmission terminal hauler with an elevating fifth wheel. The trailer shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South Africa Occupational Health and Safety Act, Act 85 of 1993/as amended or equivalent international standards such as ISO, DIN.

## **2. Hauler Details**

2.1 The hauler shall be utilized for hauling a bathtub trailer transporting one 40ft, one or two 20ft ISO Containers or one 20ft tank container. These can be empty or fully laden up to a maximum load as per ISO standard.

2.2 The lift boom of the fifth wheel must be able to safely lift the trailer with a loaded 40ft container of two fully loaded 20ft containers. During travelling, the height of the fifth wheel must remain fixed.

2.3 The hauler will be subjected to shock impact loads of fully loaded containers being loaded onto the hooked trailer.

2.5 Hauler will travel average 2 km per trip at maximum 40 km/h and subjected to intermitted stops. The trailer must be able to negotiate tight corners around container stacks.

2.6 The hauler may be required to negotiate speed humps and full oscillation of the axles is required to allow for working on uneven surfaces.

2.9 Tyres and rims provided must be interchangeable and must be standard tyres which are readily available in South Africa.

## **3. Technical Requirements**

3.1 Vehicle Gross Mass (GVM) must be minimum 40 000kg.

3.2 Vehicle Gross Combination Mass (GCM) should be minimum 80 000kg.

3.3 The fifth wheel shall have a minimum lifting capacity of 32 000kg. The fifth wheel lock jaw shall accommodate the trailer king pin shall for both SAE 3,5 inch as well as SAE 2,0 inch.

3.4 The travel of the fifth wheel shall be at least 500 mm and must tilt 10° forwards and backwards.

3.5 Standard gauges must be available:

3.5.1 Speedometer

3.5.2 Engine hour meter

3.5.3 Engine Coolant Temperature

3.5.4 Fuel Gauge

3.5.5 Air brake pressure

3.5.6 Engine Oil pressure

3.6 2x 12V battery supply, in lockable box.

3.7 Battery isolation switch must be available.

3.8 Operators cabin must be spacious to accommodate at least 2x people, with the door closed. Only one seat is required.

3.9 Operators cabin must be fully air conditioned operating at an adjustable temperature capable of controlling the cabin temperature between 20-24 C. Heater and demister must also be provided.

#### **4. Scheduled and Unscheduled Maintenance**

4.1 Vehicle to be supplied with a Full Maintenance Lease (FML) for the duration of lease period

4.2 FML to include the supply and fitting of tyres, at the cost of the contractor. Tyre repairs due to operator/site conditions must be provided for and attended to within 2 hours from time of breakdown. Cost of repairs to be covered by Transnet.

4.3 All planned maintenance work to be successfully completed and handover to operations within 3-6 hours

4.4 All minor repairs to be successfully completed and handover to operations within 6-8 hours

4.5 All major repairs to be successfully completed and handover to operations within 48 hours

## **5. Specification**

The trailer must, in the minimum, comply to the below specification, as well as any other South African Regulations.

SANS 135	ISO metric bolts, screws and nuts (hexagon and square) (Coarse threads, free fit series)
SANS 136	ISO metric precision hexagon-head bolts and screws and hexagon nuts (coarse threads medium fit series)
SANS 064	Preparation steel surfaces for coatings
SANS 763	Hot-dip (galvanized) zinc coatings
SANS 1431	Weldable structural steels
SANS 1376 Parts 1, 2, & 4	Lights for motor vehicles
SABS 1327:1981	Electrical connectors for towing and towed vehicles
SABS ISO 12098: 1994	7-Pole connectors between towing vehicles and trailers
SANS 1447 – Part 2	Pneumatic braking systems
SANS 1207 & SANS SV 1051	Braking

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