

SPECIFICATION

FRONT END LOADER

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1. Scope

This specification is for a Front-End Loader to be utilised for the handling and loading of medium-density material within Transnet operations. The Front-End Loader shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and full maintenance lease.

2. Operational Requirements

2.1 Equipment Design and Characteristics

The Front-End Loader shall, as a minimum, comply with the following requirements:

- Nominal operating weight: 16 Ton
- Suitable for handling medium-density material
- Straight tipping load capability appropriate for a 16-ton class machine
- Standard bucket capacity: 2.5m³ to 2.8m³
- General purpose bucket capacity: 3.7m³ to 3.9m³
- Maximum lift height: Minimum 3.1 metres

The bidder shall provide full OEM technical specifications demonstrating compliance with the minimum requirements listed above.

2.2 Operational Application

The equipment shall be suitable for:

- Loading and stockpiling operations.
- Continuous industrial operation.

- Operation on uneven surfaces.
- Operation in dusty environments.

3. Technical Requirements

3.1. Engine

The Front-End Loader shall be fitted with a diesel-powered engine with sufficient power to perform the required operational duties.

3.2 Bucket

The bucket shall:

- Be suitable for medium-density material.
- Have a capacity ranging from 3.7m³ to 3.9m³.
- Be fitted with replaceable wear components.
- Be OEM approved for the proposed machine.

3.3 Lift System

The lift system shall provide:

- Minimum lift height of 3.1 metres.
- Adequate lifting and breakout force for the specified bucket.
- Safe and stable operation throughout the full lifting range.