

TECHNICAL SPECIFICATION FOR FORKLIFTS

**THE PROVISION OF SPECIALISED MATERIAL HANDLING EQUIPMENT (MHE) FLEET
MANAGEMENT SERVICES TO TRANSNET, NATIONALLY, FOR A PERIOD OF EIGHT
(8) YEARS**

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1. INTRODUCTION / SCOPE OF WORK

This specification defines the technical, operational and performance requirements applicable to the provision of forklift fleet management services throughout Transnet operations nationally. The successful bidder shall provide, maintain, support and manage forklifts in accordance with the requirements of the RFP, Scope of Work, Service Level Agreement and resultant contract.

The equipment will be utilised for material handling, logistics support and related operational activities across various Transnet operations nationally. The successful bidder shall ensure high levels of equipment reliability, availability, safety compliance and operational support throughout the contract period.

This specification establishes the minimum technical, operational and performance requirements applicable to the provision of the equipment and associated fleet management services. Nothing contained in this specification shall relieve the successful bidder from applying sound engineering practices, OEM recommendations, asset management principles, applicable legislation and continuous improvement initiatives throughout the contract period.

The scope includes:

- Full Maintenance Lease (FML) services, including preventative and corrective maintenance in accordance with OEM requirements and industry best practices.
- Breakdown support, repair services and emergency response.
- Equipment monitoring, fleet management, performance monitoring and reporting.
- Load testing, certification, licensing and statutory compliance where applicable.
- Establishment, commissioning, relocation, de-establishment and collection of equipment as required during the contract period.
- Compliance with all applicable health, safety, environmental and legislative requirements.

The successful bidder shall implement all reasonable measures to ensure continuity of operations and minimise operational disruptions throughout the contract period, including during contract commencement, equipment replacement, relocation, maintenance activities and contract expiry.

2. SITE INSPECTION/ GEOGRAPHICAL LOCATION

The equipment contemplated under this RFP is expected to be deployed nationally across various Transnet operations. Indicative deployment locations and quantities have been provided to assist bidders in preparing responsive technical and commercial proposals.

The deployment locations and quantities are indicative only and may vary during the contract period based on operational, business and budgetary requirements. Transnet reserves the right to increase, decrease, relocate, substitute or redeploy equipment between operational sites as required.

Bidders shall ensure that adequate maintenance, technical support, parts availability and operational resources are available to support the equipment at all deployment locations throughout the contract period.

Region	Primary Site / Depot	Sub-Region / Business Unit	GPS Coordinates (Lat, Long)
WESTERN	Salt River Depot	Central Workshop	-33.9311, 18.4607
	Bellville	Transnet Rail Infra Manager	-33.911196, 18.627769
	Saldanha	Saldanha Salcor	-32.950379, 18.04432
	Kimberley	Beaconsfield Transnet Rail Infra Manager	-28.764069, 24.777981
	East London	Transnet Cambridge Infra Depot	-32.971136, 27890494
CENTRAL 2	Ladysmith	Transnet Daanskraal	-28.542961, 29.792701
	Bayhead	Bayhead Transnet	-29.898256, 31,017558
	Heidelberg	Heidelberg Infra Maintenance	-26.503631, 28.371663
EASTERN	Koedoespoort	Koedoespoort Transnet Infra	-25.720291, 28273369
	Ermelo	Emerlo	-26.560055, 30.012050
	Nelspruit	Nelspruit Depot	-25.465170, 30.976526
	Empangeni	Empangeni Rain Infra Manager	-28.766834, 31.907997
	Vryheid	Vryheid	-27.763849, 30.810288
	Polokwane	Transnet Freight Rails Infrastructure Building	-23.890734, 29.44014
CENTRAL	Pretoria		
	Johannesburg	Langlaagte Infrastructure Depot	-26.197143, 27.984976
	Benoni	Krugersdorp Transnet Rail Infrastructure	-26.109253, 27.773751

The deployment locations and quantities reflected below are indicative only and have been provided to assist bidders in preparing responsive technical and commercial proposals. The locations identified do not necessarily represent all current or future deployment locations contemplated under this contract.

Transnet reserves the right, during the contract period, to increase or decrease quantities, introduce additional deployment locations, relocate equipment between operational sites, consolidate requirements, or amend deployment requirements based on operational, business and budgetary needs.

Accordingly, bidders shall ensure that their proposed maintenance, support, logistics and fleet management solution is capable of supporting forklift operations across Transnet's national footprint and at any additional operational locations that may be identified during the contract period.

The service provider shall be responsible for multi-site support, including travel, logistics, and resource allocation across all listed locations.

3. INFORMATION REQUIRED

All equipment detailed in this specification or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended.

Offers will not be considered unless full particulars and sufficient information are provided at the tendering stage to enable Transnet to properly assess each technical offer.

Should there be insufficient space for furnishing full details; contractors shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.

As prospective contractors are considered to be experts in their field, they are obliged to identify any shortcomings, such as omissions or sub-standard requirements, to the completeness of this specification. These must be brought to the attention of Transnet during the clarification period of the RFP.

4. SPECIFIC REQUIREMENTS

4.1 Forklift Types and Capacities

The service provider to rent out to Transnet the following:

(Khehla Malinga)

No.	Business Unit	2.5 ton	3 ton	4 ton	5 ton	7 ton	10 ton	FUEL	Working Height (4m / 5m / 6m / 7m)	Forks Length (1.2m / 1.5m / 1.8m)
1	Ladysmith		1(MM)					Diesel	3m	1.2-1.5m
2	Bayhead		2					Deisel	3.3m	1.2-1.5m
3	Heidelberg			1				Deisel	6m	1.2-1.5m
	Total		3	1						

(Western Region)

No.	Business Unit	3 ton	3.5 ton	4 ton	5 ton	7 ton	10 ton	FUEL	Working Height (4m / 5m / 6m / 7m)	Forks Length (1.2m / 1.5m / 1.8m)
1	Kimberley		2		1		1(MM)	Diesel	3.5t(3.2m),5t(6m),10t(6m)	3.5t(1.2-1.5m),5t(1.2-1.5m)
2	Salt River (MM)					1		Deisel	7t(3.2-6m)	7t(1.2-1.5m)
3	East London			1				Deisel	5t(3-4.2m)	5t(1.2 –1.5m)
4	Saldanha		1					Deisel	3.5t(3.2m)	3.5t(1.2-1.5m)
	Total		3	1	1	1	1			

(North East/North)

No.	Business Unit	2.5 ton	3.5 ton	5 ton	7 ton	10 ton	FUEL	Working Height (4m / 5m / 6m / 7m)	Forks Length (1.2m / 1.5m / 1.8m)
1	Koedoespoort				1(MM)		Diesel	7t(3.2-6m)	7t(1.2-1.5m)
2	Ermelo				1		Deisel	7t(3.2-6m)	1.2m
3	Nelspruit				1		Deisel	3t(3.2-6m), 7t(3m)	1.2-1.5m
4	Empangeni		1		1		Diesel	3.5t(3.2-6m), 7t(3m)	1.2-1.5m
5	Vryheid				1		Deisel	7t(3.2-6m)	1.2-1.5m
6	Polokwane		1				Deisel	3t(3.2-6m)	1.2-1.5m
	Total		2		5				

(Central 1)

No.	Business Unit	2.5 ton	3.5 ton	5 ton	7 ton	10 ton	FUEL	Working Height (4m / 5m / 6m / 7m)	Forks Length (1.2m / 1.5m / 1.8m)
1	Pretoria				1(MM)		Diesel	3m-7m	1.2m

2	Johannesburg				1(MM)		Diese	3m-7m	1.2m
3	Benoni				1		Diese	3m-7m	1.2m
	Total				3				

4.2 Shunting tractor for Durban

No.	Business Unit	Cost Centre No.	Shunting Tractors
1	Wagons S/Dunes	1466	2
2	Wagons Insezi	1476	1
	Total		3

4.3 Specification for the shunting tractor.

Clause	Specification Area	Requirement Description
4.3.1	Type	ITL Shunting Tractor – Model PS720 or approved equivalent
4.3.2	Configuration	4x2 configuration; rear-wheel drive with non-driven front axle
4.3.3	Axles	Front: Non-drive pivoting steering axle; Rear: ITL PD90 heavy-duty drive axle
4.3.4	Steering System	Fully hydraulic orbital steering with double-acting cylinder; full-flow filtration; operating pressure: 10.3 MPa (1500 psi)
4.3.5	Tyre Specification	Front: 10.5 x 16" (14 ply) / 14.9 x 24" (14 ply); Rear: 18.4 x 34" or 18.4 x 38" (10 ply)
4.3.6	Braking System	Inboard wet sealed disc brakes; park brake mechanically applied at transmission output shaft
4.3.7	Pneumatic System	Air system capacity: 20 litres; working pressure: 120 psi (8.1 bar); unloader valve controlled
4.3.8	Engine	Diesel engine, 5.9 litre displacement; power output: 97 kW @ 2200 RPM; torque: 526 Nm @ 1600 RPM
4.3.9	Exhaust & Monitoring	Stainless steel exhaust system; tachograph fitted for operational monitoring
4.3.10	Transmission	ITL PS720 transmission; full power shift automatic; downshift protection; 4 forward / 4 reverse gears; torque converter: single-phase
4.3.11	Speed Capability	Maximum speed: 45 km/h (road travel and transfer operations)
4.3.12	Hydraulic System	Oil capacity: 60 litres; fixed displacement gear pump; operating pressure: 2200 psi (15.1 MPa); full-flow filtration
4.3.13	Service Capacities	Cooling system: 32 litres; diesel tank: 135 litres; hydraulic reservoir: 60 litres
4.3.14	Cab Features	Fully enclosed cabin; adjustable suspension seat; seat belt; cab lighting; windshield wiper; side-door access; roof-mounted ventilation fan; lockable cab
4.3.15	Operational Mass & Performance	Tare mass: 6,000 kg; Gross vehicle mass: 12,200 kg; Drawbar pull: ≥ 30,000 kg (suitable for wagon and locomotive shunting operations)
4.3.16	Dimensions	Approx. 4,140 mm (length) x 3,120 mm (height); compact design for yard manoeuvrability

4.3.17	Coupling Arrangement	Front and rear couplers compatible with Transnet rolling stock; integrated pusher plate for wagon engagement
4.3.18	Functional Requirement	Unit shall be capable of safely shunting wagons and locomotives within Transnet depots and rail yards
4.3.19	Safety Systems	Emergency stop system, warning beacons, reverse alarm, mirrors, and operator visibility compliance
4.3.20	Compliance	Equipment shall comply with Transnet standards, SANS requirements, and Occupational Health and Safety Act

	5. TECHNICAL REQUIREMENTS	
5.1	All forklifts shall be diesel-powered, except where electric units are specifically required (2.5 ton forklift in Koedoespoort). Machines shall be fitted with solid rubber tyres suitable for industrial environments, and pneumatic tyres shall not be accepted.	
5.2	Each unit shall be equipped with lifting forks and a load backrest appropriate for the intended application. Overhead guards shall be provided to ensure operator protection against falling objects without restricting visibility.	
5.3	All forklifts shall be fitted with standard safety features including a reverse alarm, flashing or strobe light, mirrors, horn, and a mounted fire extinguisher.	
5.4	To support operational control and monitoring, all units shall include a driver tracking and telematics system with operator identification capability.	
5.5	Where required, forklifts shall be fitted with hydraulic side-shift functionality to improve handling efficiency.	
5.6	Depending on site conditions, forklifts shall be provided with either transparent rain covers or enclosed cabs to ensure safe and practical operation in varying environments.	
5.7	All forklifts supplied shall be new or in near-new condition, and in all cases shall not exceed one thousand (1,000) operating hours at the time of deployment. The equipment shall be fully serviced, free from mechanical defects, and supported by verifiable service and maintenance records.	
	6. SERVICE, MAINTENANCE AND BREAKDOWN RESPONSE	
6.1	The Service Provider shall be fully responsible for maintaining all equipment in a safe, reliable, and operational condition throughout the contract period. Maintenance shall be proactive and aligned to OEM requirements, including scheduled preventative servicing, timely repairs, and proper record-keeping. All equipment must always remain compliant with safety and statutory requirements	
6.2	A structured breakdown response system shall be in place to ensure rapid fault resolution. The Service Provider shall respond to breakdowns within a few hours and complete repairs within 48 hours. Where this is not achievable, equivalent replacement equipment shall be provided at no additional cost to Transnet.	
6.3	The Service Provider shall ensure that maintenance planning, service intervals and resource allocation are sufficient to support the operational requirements applicable to the deployed equipment throughout the contract period.	
6.4	The Service Provider shall ensure availability of spare parts, qualified personnel, and, where necessary, standby equipment for critical operations. All maintenance and repair costs due to normal wear and tear shall be included in the contract. Transnet shall only be liable for damage resulting from proven misuse or negligence	
	7. CALL CENTRE AND SUPPORT	

7.1	The Service Provider shall provide a dedicated call centre and support function as the single point of contact for all service-related matters, including fault reporting, breakdowns, and general support. All incidents shall be logged, tracked, and resolved in a structured and within 48 hours, with clear communication maintained with Transnet
7.2	The support service shall operate during normal working (8:00 to 16:00) hours with after-hours emergency support. The Service Provider shall ensure rapid response to all calls and maintain a system capable of recording incidents, assigning reference numbers, and monitoring resolution times.
7.3	The Service Provider shall provide regular reports on response times, repair turnaround, and service performance, and shall use this information to improve service delivery. Adequate staffing, technical resources, and systems shall be maintained at all times to meet service level requirements.
8. LOAD TESTING AND CERTIFICATION	
8.1	All equipment shall undergo annual load testing to verify safe operation and compliance with applicable standards. Testing shall be carried out by an accredited LME/LMI inspector in accordance with SANS 10388.
8.2	Valid test certificates indicating equipment details and expiry dates shall be issued and made available to Transnet at all times. Equipment without valid certification shall be deemed non-compliant and removed from service
8.3	All testing and certification costs shall be included in the contract

9. LICENSING AND LEGAL COMPLIANCE	
9.1	The Service Provider shall ensure that all equipment supplied under this contract is fully licensed, registered where applicable, and compliant with all relevant legal and regulatory requirements within the respective province in which the equipment is deployed. This includes adherence to national legislation as well as any provincial or municipal by-laws governing the operation of plant and equipment.
9.2	All forklifts and mobile equipment shall be maintained in a roadworthy and legally compliant condition at all times. Where licensing is required, valid licence discs shall be obtained, displayed, and kept up to date in accordance with the Department of Transport regulations and applicable authorities. The Service Provider shall be responsible for ensuring that all documentation, permits, and registrations are current and available for inspection by Transnet or regulatory bodies.
9.3	The Service Provider shall further ensure compliance with all applicable occupational health and safety legislation, standards, and codes of practice relevant to each operating location. This includes ensuring that equipment meets statutory safety requirements and that any legal inspections or certifications are conducted within prescribed timeframes.
9.4	Failure to comply with licensing and legal requirements in any province shall render the equipment non-compliant and unsuitable for use. The Service Provider shall immediately rectify such non-compliance or replace the affected equipment at no additional cost to Transnet.

10. HEALTH, SAFETY AND SHE REQUIREMENTS	
10.1	All contractor personnel entering Transnet facilities for service, maintenance, or breakdown response shall comply with all applicable Occupational Health and Safety requirements, site rules, and Transnet SHE standards. Access to site shall be granted only after completion of the required safety induction and presentation of valid permits, documentation, and identification.

10.2	The Service Provider shall ensure that all personnel are competent, medically fit where required, and equipped with the prescribed personal protective equipment (PPE) at all times. A task-specific risk assessment shall be conducted prior to commencing any work, and all hazards shall be identified and controlled in accordance with approved procedures.
10.3	All equipment and work activities shall be safe, compliant, and suitable for the operating environment. No work shall proceed without adherence to safe work practices, isolation procedures, and permit-to-work requirements where applicable. Unsafe conditions or incidents shall be reported immediately

	11. DELIVERY AND IMPLEMENTATION
11.1	The Service Provider shall be responsible for the delivery, offloading, commissioning, and handover of all equipment at the designated Transnet sites. Equipment shall be delivered in a fully operational, compliant, and ready-for-use condition to avoid any disruption to operations.
11.2	Delivery shall be completed within 8 weeks from date the Service Provider receives Transnet Order, and the Service Provider shall ensure adequate planning, logistics, and coordination with Transnet for site access and positioning of equipment. All statutory documentation, certifications, and safety checks shall be completed prior to commissioning.
11.3	The Service Provider shall also be responsible for the safe removal and collection of equipment at the end of the contract period.

	12. PERFORMANCE AND REPORTING
12.1	The Service Provider shall monitor and report on equipment performance throughout the contract period to ensure compliance with operational requirements and service levels. Monthly performance reports shall be submitted to Transnet detailing equipment utilisation, breakdowns, maintenance activities, and overall availability.
12.2	Reports shall be accurate, complete, and submitted every third month. The Service Provider shall analyse performance data to identify trends, recurring issues, and areas for improvement, and implement corrective actions to enhance reliability and service delivery. [CIS (Customer Information Schedule) required every third month]