

Title: **SOW – Purchase of New Yellow Plant – Front End Loader** Document Identifier:

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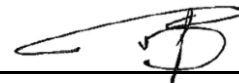
Functional Responsibility



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## 1. Purpose

The purpose of this document is to outline the scope requirements for the purchase of new yellow plant fleet specifically Front-End Loader (FEL) for the Eskom Rotek Industries (ERI) Bulk Material Services (BMS) Mobile plan.

## 2. Brief overview of our business

Eskom Rotek Industries (ERI) Bulk Material Services (BMS) division provides, amongst other services, yellow mobile plant equipment for bulk materials handling (ash and coal) to/in various power stations across the country mainly fossil power station, with the fossil power stations located in the Mpumalanga, Limpopo and Free State provinces/regions.

The yellow plant mobile plant equipment is used to provide various services to/for coal yards ash dams and dumps. In order for BMS to provide a high standard of service, a well maintained and reliable mobile fleet is essential.

## 3. Description of Services

The services required are for the supply, delivery of new Front End Loader yellow plant fleet, with warranty services, to the ERI BMS mobile plant, Rosherville, Johannesburg.

## 4. Scope of Work

Below listed, are the technical specifications that further describe the required equipment:

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No.	Boundary/Equipment	Specification
4.1	Engine	<ul style="list-style-type: none"><li>• EU Stage 3 emissions equivalent</li><li>• Four-stroke cycle turbocharged and after cooled diesel</li><li>• Gross Engine power SAE J1995:2004 – 230 to 245 Kw range @1600rpm</li><li>• ISO 9249:2007 – 223 to 226 Kw range</li><li>• Gross Torque range – 1680 to 1850 Nm @1200rpm or 1100 to 1299 Nm @1600rpm</li><li>• Displacement range 11,3 to 13.3 L</li></ul>

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No.	Boundary/Equipment	Specification
4.2	Bucket	<ul style="list-style-type: none"> <li>Coal Bucket SAE Capacity - 5,8 to 6,8 m3</li> </ul>
4.3	Transmission	<ul style="list-style-type: none"> <li>1 Forward 6,5 km/h – 6,8 km/h</li> <li>2 Forward 13,4 km/h – 13,8 km/h</li> <li>3 Forward 23,0 km/h – 24,5 km/h</li> <li>4 Forward 38,3 km/h – 41,0 km/h</li> <li>1 Reverse 7,0 km/h – 7,6 km/h</li> <li>2 Reverse 14,4 km/h – 15,0 km/h</li> <li>3 Reverse 25,2 km/h – 27,0 km/h</li> <li>4 Reverse 38,3 km/h – 41,0 km/h</li> <li>With free wheel stator torque convertor</li> </ul>
4.4	Fuel Tank Refill Capacity and system	<ul style="list-style-type: none"> <li>Fuel Tank Range – 290 to 380 Liters</li> <li>Fill system, fuel, fast fill</li> <li>Cooling system range – 50 to 69 Liters</li> <li>Hydraulic tank range – 115 to 160 Liters</li> <li>Transmission tank range – 45 to 60 Liters</li> </ul>
4.5	Weights	<ul style="list-style-type: none"> <li>Operating weight range – 20 350 to 26 800 kg</li> </ul>
4.6	Power Train	<ul style="list-style-type: none"> <li>Pre-Cleaner, air – turbine</li> <li>High debris, radiator</li> <li>Reversible, cooling fan</li> <li>Front and rear auto differential locks Axles</li> </ul>
4.7	Hydraulic system	<ul style="list-style-type: none"> <li>Pump type – Piston-type; variable displacement</li> <li>Load sensing steering system</li> <li>Dual accumulator ride control, with 3<sup>rd</sup> and 4<sup>th</sup> aux functions</li> </ul>
4.8	Linkage	<ul style="list-style-type: none"> <li>Z-bar, standard lift</li> <li>Electronic Turbocharger</li> </ul>
4.9	Axle	<ul style="list-style-type: none"> <li>Brakes, full hydraulic enclosed wet disc</li> <li>With integrated Braking System (IBS) and brake wear indicator</li> </ul>

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		<ul style="list-style-type: none"> <li>Fixed front axle</li> <li>Oscillated rear axle; as per ISO 3450 standards</li> </ul>
No.	Boundary/Equipment	Specification
4.10	Steering System	<ul style="list-style-type: none"> <li>Load-sensing hydrostatic articulated steering.</li> </ul>
4.11	Electrical	<ul style="list-style-type: none"> <li>Alarm, back-up</li> <li>Batteries – 2 x 12 V; (170-180 Ah capacity per battery)</li> <li>Cold start, 120 or 240 V</li> <li>Alternator output range 70 to 80A</li> <li>LED lights (front and rear)</li> <li>Reversing strobe light</li> </ul>
4.12	Operator Environment	<ul style="list-style-type: none"> <li>ROPS cab: <ul style="list-style-type: none"> <li>All-weather, enclosed pressurized, Sound suppressed panel glass, Meets ISO 3471 standards</li> </ul> </li> <li>ROPS mounted air conditioner</li> <li>Advisor operator interface; Electronic monitoring system; Diagnostic service information</li> <li>Full colour LCD monitor with analogue gauge</li> <li>Seat – Air-suspension</li> <li>Heater, defroster and ventilation</li> <li>Visibility – Rear vision camera, rear view mirrors</li> <li>Lighting – LED lights package</li> <li>Interior LED courtesy lights</li> <li>Radio ready</li> <li>Power supply – 24V</li> <li>Sun visor – front/rear</li> <li>Steering, electronically controlled, power differential, joystick</li> <li>Air conditioner and heater</li> </ul>

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## 5. Equipment monitoring hardware/software

The equipment must be fitted with hardware / software to facilitate online real monitoring of the following:

Location tracking

- Hours
- Fuel usage
- Productivity
- Diagnostic codes

## 6. Warranty

- One year/0 – 2500 hours standard, extended to 6000 hours on power train components
- Service to be conducted every 250 worked hours, with a lenient gap of 50 hours for the service to be conducted before the warranty becomes obsolete

## 7. Delivery of Equipment

- Delivery of fully finished product within agreeable timelines from order
- Supplier must deliver/transport the machine to Rosherville, Johannesburg
- Commissioning of product must be within 3 days after delivery on site.

## 8. After Sales/Market Support

No.	Service
1.	24/7 technical support and parts/spares sales
2.	Average response time of 24 – 48 hours on warranty breakdowns/services and confirmation of extended aftermarket support
3.	95% OEM Parts availability in stock
4.	7 – 14 days turn-around time to import spares if not available locally

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- |       |   |
|-------|---|
| 5.    | Supplier to provide free technical training for Artisans, Supervisors, Operators within 30 days of delivery |
| <hr/> |   |
| 6.    | Supplier to conduct quarterly machine health monitoring inspections and submit reports to Plant Management  |
- 

## **9. Recommendations**

Recommendations from a technical perspective, will be based on the following conditions:

- Machine complies with the required specifications
- Price
- Product availability
- Technical specification compliance

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## 10. Technical Evaluation

Appendix A

Gatekeepers

Tick ✓

<ul style="list-style-type: none"> <li>• ISO 9001 accreditation (that of the equipment Supplier)</li> <li>• 100% compliance with technical specifications</li> <li>• Must deliver before or 30 March 2024</li> <li>• Must be sized to meet the required coal bucket capacity of - 5,8 – 6,8m<sup>3</sup></li> </ul>				
Description		Technical Criterion	Scoring Criteria	Weight (%)
1	OEM or Accredited Distributorship			
1.1	Verifiable Proof of OEM status or Sole local distributor	Proof of OEM registration or authorized distributor approval	30 = verified and compliant OEM registration 10 = verified and compliant OEM agreement 0 = not verified and or compliant	
2	Technical compliance			
2.1	Machine technical specifications. (Refer to scope of work)	Must comply with all machine technical specification as per scope of work	25 = compliant 0 = non-compliant	

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2.2	OEM Workshop Accreditation inclusive of ISO 9001	Proof of OEM workshop accreditation and valid ISO accreditation (may conduct site visit if necessary)	10 = compliant 0 = non-compliant	
Description		Technical Criterion	Scoring Criteria	Weight (%)
3	<b>Aftersales support confirmation</b>			
3.1	24/7 technical support and parts/spares sales	Documentation confirming 24/7 technical support and parts/spares sales	10 = compliant 0 = non-compliant or non-submission	
3.2	The supplier to provide free technical training for Artisans, Supervisor, Technician and Operators within 3 months of delivery	Documentation confirming that the supplier will provide free technical training for relevant personnel and manuals	10 = compliant 0 = non-compliant or non-submission	
3.3	Conduct quarterly machine health monitoring inspections for the duration of the warranty period	Documentation confirming that quarterly machine health monitoring inspections will be conducted and reports to ERI Plant management will be submitted for the duration of the warranty period	10 = compliant 0 = non-compliant or non-submission	
3.4	To meet the local manufacturing and assemble content requirements	The supplier to furnish proof that the manufacturing and/or assembling is done in South Africa to support local employment market	5 = local manufacturing 3 = local assembling 0 = international manufacturing and assembling	
<b>Total Weighted Score</b>			<b>/100</b>	

**Supplier that does not meet the gatekeepers or obtain a score above 75% will be deemed unacceptable**

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**11. Supporting documents**

NB: Adherence to the following documentation must be proven accordingly during the evaluation process:

- ISO 9001 Quality Management Systems
- OSHAS 1800 Safety Management Systems
- Occupational Health and Safety Act and Regulations (85 of 1993)
- 240-62196227\_Eskom Life Saving Rules
- Criminal Procedures Act 51 of 1977
- National Road Traffic Act 93 of 1996
- Labour Relations Act 66 of 1995
- Basic Conditions of Employment Act 75 of 1997

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