

Title: **SOW – Purchase of New Yellow Plant – Motor Grader** Document Identifier:

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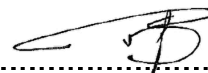


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Date: 27/09/2023

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BMS Mobile Plant - HOD

Date: 27/09/2023

1. Purpose

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

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 Motor Grader 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:

No.	Boundary/Equipment	Specification
4.1	Engine	• EU Stage 2 / 3 emissions equivalent • Six-cylinder, air cooled, Turbocharged • Gross Engine power SAE J1348 – 125 to 190 Kw range @2000rpm • Gross Torque range – 990 to 1350 N.m @1000rpm; 45% to 65% torque rise range • Displacement range 7,5 to 10.5 L

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No.	Boundary/Equipment	Specification
4.2	Blade	Moldboard SAE Capacity - Width 3,7m x Height 0,6m x Thickness 0,022m – 0,4m Arc radius
4.3	Transmission	1 Forward 3,5 km/h – 4,5 km/h 2 Forward 5,0 km/h – 6,0 km/h 3 Forward 7,0 km/h – 8,5 km/h 4 Forward 10,0 km/h – 11,0 km/h 5 Forward 16,0 km/h – 17,0 km/h 6 Forward 22,0 km/h – 23,0 km/h 7 Forward 30,0 km/h - 33,0 km/h 8 Forward 44,0 km/h – 46 km/h 1 Reverse 3,0 km/h – 4,0 km/h 2 Reverse 5,5 km/h – 6,5 km/h 3 Reverse 8,0 km/h – 9,0 km/h 4 Reverse 12,0 km/h – 13,0 km/h 5 Reverse 23,5 km/h – 24,5 km/h 6 Reverse 34,5 km/h – 35,5 km/h
4.4	Fuel Tank Refill Capacity and system	- Fuel Tank Range – 305 to 420 Litres - Fill system, fuel, fast fill - Cooling system range – 30 to 50 Litres - Hydraulic tank range – 35 to 55 Litres - Transmission tank range – 25 to 50 Litres
4.5	Weights	Operating weight range – 17 050 to 25 800 kg
4.6	Power Train	- Direct drive, Power shift (8 fwd / 6 rev) - air to air after cooler, with dry type radial seal - Fuel / water separator
4.7	Hydraulic system	- Pump type – axial-piston - Closed center Load sensing steering system 205 to 215 L/min pump output @2100rpm
4.8	Axle	- Brakes, full hydraulic enclosed wet-disc - Brakes meet the following standards: SAE J1473 - Oscillated rear axle; as per ISO 3450 standards

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No.	Boundary/Equipment	Specification
4.10	Steering System	Hydraulic, Power steering
4.11	Electrical	- Alarm, back-up - Batteries – 2 x 12 V; 750 CCA each (maintenance free) - Alternator output range 70 to 120 A - LED lights (front and rear), stop and tail 24v Electrical system - Product link ready
4.12	Operator Environment	- ROPS cab: - All-weather, enclosed pressurized, Sound suppressed panel glass, Meets ISO 3471 standards - ROPS mounted air conditioner - Advisor operator interface; Electronic monitoring system; Diagnostic service information - Seat – Air-suspension - Heater, defroster and ventilation - Visibility – Rear vision camera, rear view mirrors - Lighting – LED lights package - Interior LED courtesy lights - Radio ready - Power supply – 24V - Sun visor – front/rear

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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.

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8. After Sales/Market Support

No.	Service
1.	24/7 technical support and parts/spares sales
2.	Average response time of 9 to 24 hours on warranty breakdowns and warranty services and confirmation of aftermarket support for next 6 years minimum
3.	95% OEM Parts availability in stock
4.	Seven (7) days turn-around time to import spares if not available locally
5.	Supplier must be in a position to assist with a loan bucket to ensure a machine uptime of at least 90%
6.	Supplier to provide free technical training for Artisans
7.	Provide free Operator and Supervisor training within 30 days of delivery
8.	Technical training on specific equipment to Eskom mechanical technician
9.	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
- Delivery timeframe

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10. Technical Evaluation

Appendix A

Gatekeepers

- ISO 9001 accreditation.
- 100% compliance with technical specification
- Must be sized to meet the required bucket capacity
- Supplier must be in a position to assist with a loan bucket to ensure a machine uptime of at least 90%
- Product delivery time line to not exceed 8 months

Description	Technical Criterion	Scoring Criteria	Weight (%)
OEM or Accredited Distributorship			
Verifiable Proof of OEM status or accreditation	OEM registration or distributorship agreement (Submit signed letter from OEM)	10 = Verified and compliant 0 = Not verified and or compliant	10 0
Capability and Resources			
Proof of OEM repair resources which consists of Local support facilities in Gauteng and/or Mpumalanga	Inspection of facilities conforming to OEM standards (submit signed letter from OEM)	10 = Acceptable facilities and proof of conformance to OEM standards 0 = Unacceptable standards and or no proof of conformance to OEM standards	10 0

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Description	Technical Criterion	Scoring Criteria	Weight (%)
Technical compliance			
Machine specifications. Refer to scope	Confirmation of: Engine Kw Transmission speeds ROPS cab Weight Specify standard warranty Coal bucket capacity	20 = Compliant 0 = Non-compliant	20
Equipment monitoring hardware / software as per criteria	Proof of online GPS Location tracking, Hours, Fuel usage, Productivity and Diagnostic codes capability	10 = Compliant 0 = Non-compliant	10
OEM workshop accreditation	Proof of OEM workshop accreditation	10 = Compliant 0 = Not compliant	10
ISO 9001 Compliant	Proof of current ISO 9001 certificate	5 = Compliant 0 = Not compliant	5

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Description	Technical Criterion	Scoring Criteria	Weight (%)
Aftersales support confirmation			
24/7 technical support and parts/spares sales	Documentation confirming 24/7 technical support and parts/spares sales	3 = Compliant 0 = Non-compliant or non - submission	3
Average response time of 9 to 24 hours on warranty breakdowns and warranty services and confirmation of aftermarket support for next 6 years minimum	Documentation confirming an average response time of 9 to 24 hours on warranty breakdowns and warranty services which include aftermarket support for next 6 years minimum.	3 = Compliant 0 = Non-compliant or non - submission	3
95% OEM Parts availability in stock	Documentation confirming 95% average parts availability (Submit signed letter from OEM). To be verified by ERI through a site visit	11 = Compliant 0 = Non-compliant or non - submission	11
Seven (7) days turn-around time to import spares if not available locally	Documentation confirming a seven day turn-around time to import spares if not available locally	3 = Compliant 0 = Not compliant	3
Supplier must be in a position to assist with a loan bucket to ensure a machine uptime of at least 90%	Documentation confirming that the supplier will supply a loan bucket to ensure a machine uptime of at least 90%	3 = Compliant 0 = Non-compliant or non - submission	3
Supplier to provide free technical training for Artisans	Documentation confirming that the supplier will provide free technical training for Artisans	3 = Compliant 0 = Non-compliant or non - submission	3

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Description	Technical Criterion	Scoring Criteria	Weight (%)
Aftersales support confirmation ... Continues			
Provide free operator and Supervisor training within 30 days of delivery	Documentation confirming free operator training within 30 days of delivery	3 = Compliant 0 = Non-compliant or non - submission	3
Technical training on specific equipment to Eskom mechanical technician	Documentation confirming that technical training can be conducted on specific equipment to Eskom mechanical technician	3 = Compliant 0 = Non-compliant or non - submission	3
Supplier to conduct quarterly machine health monitoring inspections and submit reports to Plant Management	Documentation confirming that quarterly machine health monitoring inspections will be conducted and reports to plant management will be submitted	3 = Compliant 0 = Non-compliant or non - submission	3
Total Weighted Score			100

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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