

	PURCHASE OF NEW YELLOW PLANT SCOPE OF WORK	Bulk Material Services
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Title: **SOW – Purchase of New Yellow Plant – Cold recycler and soil stabilizers**

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SOC Ltd




Functional Area: Bulk Material Services

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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 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) mobile plant is used for all construction and materials handling services, including but not limited to, coal, ash and lime stone. The mobile plant must be able to operate and cope within the harsh and dusty environment at any of the provinces within the borders of the Republic of South Africa (RSA).

The reliability of the mobile equipment is of paramount importance to the operations, including its ease of maintenance and availability of spares within the very borders of RSA. The advancements in the use of technology to monitor plant health and its productivity presents an opportunity where technology becomes an integral component of the mobile that is to be acquired.

The Data generated from the telematics, purchased with the equipment, will be the property of Eskom Holdings SOC Ltd, and the entity will be at liberty to use this data at zero (0) cost. In an event that the software/platform is owned by the supplier, the relevant data will equally remain property of the customer, guided by the Eskom Information Security Policy 32-85; Electronic Communications Security Act 68 of 2022; Protection of Information Act 84 of 1982.

3. Description of Services

The services required are for the supply, delivery of new Cold recycler and soil stabilizers (further details enlisted in the Technical Specifications), with warranty, maintenance and service plan services, for 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	<ul style="list-style-type: none">Cylinders: 6Displacement: 15.01 L minimum

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- Power: @ 2100 rpm: 447kW/600 HP/ 608 PS
 - Max Power: @ 1900 rpm: 455kW/ 610 HP/ 608 PS
 - Fuel consumption, full load, during operation: 120 l/h and 60 l/h
 - Displacement range 11,3 to 13.3 L
 - Sound power level: 81 – 113 dB
-

No.	Boundary/Equipment	Specification
4.2	Electricity System	<ul style="list-style-type: none"> • Power Supply: 24 V
4.3	Weight of basic machine	<ul style="list-style-type: none"> • Empty weight of machine no fluids: 29 000 kg • Operating weight, half tank: 30 000 kg • Maximum operating weight, full tank: 40 400 kg
4.4	Fuel Tank system	<ul style="list-style-type: none"> • Fuel tank: 1 500 L • Hydraulic oil tank: 320 L • Water tank: 500 L • Additional Water tank: 950L • Binder container: 5.5m³
4.5	Tyres	<ul style="list-style-type: none"> • Tyre size, front/ rear: 28L-26
4.6	Weight of tank contents	<ul style="list-style-type: none"> • Water: 500 kg • Additional Water tank: 950 kg • Fuel (0.83kg/l): 1 245 kg
4.7	Driving performance	<ul style="list-style-type: none"> • Operating speed in milling and travel gear: 0 -210 m/min (12.6km/h) • Max. cross slope: 8° • Ground clearance: 400mm functions
4.8	Transpiration dimensions	<ul style="list-style-type: none"> • 9230 x 3000 x 3000 mm
4.9	Milling and mixing Rotor	<ul style="list-style-type: none"> • Working width: 2400mm • Working depth: 0-510mm

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- Tool spacing: 20mm.
 - Number of tools: 170
 - Cutting diameter: 1480mm
 - Cutting Power: 1.6 kW/cm
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4.10 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
 - Full colour LCD monitor with analogue gauge
 - 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
 - Steering, electronically controlled, power differential, joystick
-

5. Equipment monitoring hardware/software

The equipment must be fitted with hardware / software to facilitate online real monitoring of the following: ERI to own below listed data, and data sharing principles to be in line with company policy

- Hours
- Location
- Fuel usage

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- Productivity, to include; Utilisation, Idling, payload, load monitors, etc.
- Diagnostic codes, i.e. protective signals
- Equipment to include operator biometric functionality for start-up & data acquisition (price to be costed separately)

6. Warranty (Comprehensive/Premium)

- 0 to 12000 hours (standard + extended) comprehensive/Premium warranty on each machine
- In the event of intra-warranty repairs to new machines, supplier to be in a position to supply a loan machine to maintain minimum 85% availability

*Warranty components to include, but not limited to: **Engine, Electronics, Braking, Steering & Suspension and CAB***

7. Service and Maintenance Plan

- 12000 hours service plan to be added to package, 1st service to be conducted on the 100 hr mark, followed by intervals of 500 hours, with a 50 hours leniency gap
- Supplier to monitor and notify service intervals 150hrs prior to service
- Service plan to be inclusive of a service kit and labour
- 12000 hours Maintenance plan to be added to package

*Service/Maintenance, components to include, but not limited to: **Engine, Electronics, Braking, Steering & Suspension and CAB***

8. Operator and Service Manuals (Digital versions)

- Package to include an Operator as well as Service manual

9. Delivery of Equipment

- Delivery of fully finished packaged product to be within contracted timelines from order
- Supplier must plan to deliver/transport the machine to various stipulated sites in the Gauteng, Free State, Mpumalanga and Limpopo regions. Exact locations to be indicated pre-order.
- Commissioning of product must be within 3 days after delivery on site.

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10. After Sales/Market Support

No.	Service
1.	24/7 technical support and parts/spares sales – with onsite support capability
2.	Average response time within 6 – 24 hours on warranty breakdowns and warranty services and confirmation of extended aftermarket support for next 6 years minimum
3.	85 - 95% OEM Parts availability in stock
4.	7 to 14 days turn-around time to import spares if not available locally
5.	Supplier to provide free technical training for Supervisors; Artisans; Operators
7.	Technical training on specific equipment to Eskom mechanical technician
8.	Supplier to conduct quarterly machine health monitoring inspections and submit reports to Plant Management within warranty period
9.	In the event of intra-warranty repairs to new machines, supplier to be in a position to supply a loan machine to maintain minimum 85% availability
10	10% of total purchase/contract value to be made available as credit limit for potential spares and maintenance

11. Equipment Recommendations

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

- Machine complies with the required specifications
- Product and spares availability
- Technical specification compliance, amongst other requirements

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12. Technical Evaluation

Appendix A

Gatekeepers (All Gatekeepers are compulsory for further evaluation to continue)

Tick ✓

<ul style="list-style-type: none"> • ISO 9001 accreditation (that of the equipment Supplier) • 100% compliance with technical specifications • Must be sized to meet the required milling and mixing Rotor width of - 2 400 mm • 100% compliance with delivery schedule • Loan machine confirmation to ensure minimum 85% availability • Confirm that warranty/service/maintenance plans include - Engine, Electronics, Braking, Steering & Suspension and CAB (indicate details) 				
Description		Technical Criterion	Scoring Criteria	Weight (%)
1	OEM or Accredited Distributorship			
1.1	Verifiable Proof of OEM status or accreditation	Proof of OEM registration or authorized distributor approval	20 = verified and compliant OEM registration 10 = verified and compliant OEM agreement 0 = not verified and or compliant	
2	Technical compliance (Please specify and reference location of required data)			
2.1	Machine specifications. (Refer to scope of work)	Must comply with all machine technical specification as per scope of work	20 = compliant 0 = non-compliant (Gatekeeper does not quality)	

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2.2	Workshop Accreditation inclusive of ISO 9001	Proof of accredited workshop facilities registered with relevant heavy equipment repair-work statutory bodies	10 = compliant 0 = non-compliant	
Description		Technical Criterion	Scoring Criteria	Weight (%)
3	Delivery schedule			
3.1	Product Delivery Schedule	Written confirmation of product delivery commitment	5 = 0 – 4 months 0 = 4+ months (Gatekeeper, does not quality)	
4	Aftersales support confirmation			
4.1	24/7 technical support and parts/spares sales	Documentation confirming 24/7 technical support and parts/spares sales – Proof of onsite support capability, i.e. Field service	20 = compliant 0 = non-compliant or non-submission	
4.2	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	
4.3	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	
4.4	Loan Machine	In the event of intra-warranty repairs to new machines, supplier to be in a position to supply a loan machine to maintain minimum 85% availability	10 = Compliant 0 = Non-compliant or non-submission (Gatekeeper, does not quality)	

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Total Weighted Score	/100	
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Supplier that does not meet the gatekeepers or obtain a score above 75% will be deemed unacceptable

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13. 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
- Eskom Information Security Policy 32-85
- Electronic Communications Security Act 68 of 2002
- Protection of Information Act 84 of 1982

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