

Title: **SOW – Purchase of New White  
Plant – 10m<sup>3</sup> Tipper Truck**

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SOC Ltd

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Compiled by



Lefa Tota

Production Manager

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Functional Responsibility



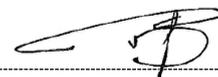
Shuaib Gaibie

Engineering

Date: 15/08/2024

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Authorized by



Sifiso Mthethwa

BMS Mobile Plant - HOD

Date: 15/08/2024

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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 a new on and off-road application Tipper Truck (further details enlisted in the Technical Specifications), with warranty, maintenance and service plan services, for ERI BMS Mobile Plant.

## 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"> <li>EU Stage 2/3 emissions equivalent</li> <li>Six-cylinder; turbocharged, Diesel</li> </ul>

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- Gross Engine power SAE J1995:2004 – 245 to 295 Kw range @1500 to 1900rpm
- Gross Torque range – 1500 to 1900 N.m @ 900 to 1200rpm
- Displacement range 12 to 13 L

No.	Boundary/Equipment	Specification
4.2	Rear Tipper (White)	<ul style="list-style-type: none"> <li>• Tipper SAE Capacity - 10 cube/m<sup>3</sup></li> <li>• Mild steel, anti-abrasion tank with 6/8mm floor and 4/5mm sides; 850 High Strength Steel</li> <li>• 24ton direct trust hydraulic cylinder to achieve 45deg tipping angle, at a speed of ± 30 seconds (with stabilizer bar)</li> <li>• 120 bar Mist mechanism Hydraulic /PTO (Power Take Off), with auto controls</li> <li>• Inside dimensions – 2.2/2.3m width, height and length to suit chassis</li> <li>• SANS compliant platform, handrails and safety cable</li> <li>• Side Glass, level indicator</li> </ul>
4.3	Transmission	<ul style="list-style-type: none"> <li>• 9 to 16 Forward / 1 reverse (Automatic)</li> <li>• Max road speed – 80 to 100 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 – 300 to 400 Litres, with lockable fuel cap</li> </ul>
4.5	Weights	<ul style="list-style-type: none"> <li>• Operating weight range (G.V.W) – 25 000 to 33 000 kg</li> <li>• A/AU Front (7 000 – 8000 kg); Rear (18 000 – 21 000kg)</li> </ul>
4.6	Power Train	<ul style="list-style-type: none"> <li>• 2 speed electro-magnetic cooling fan</li> <li>• Rear cab snorkel air admission / dry – Horizontal filter type</li> <li>• Two independent pneumatic circuits brakes, A.B.S. + E.B.L. on rear</li> <li>• 5 x 20 litres steel air reservoirs</li> <li>• 352cc – single cylinder, air compression</li> </ul>

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- 15 pin plug as alternative 7+7 pin; trailer connections
- Clutch type - Single plate, diaphragm spring, pull type

No.	Boundary/Equipment	Specification
4.7	Drive Axle	<ul style="list-style-type: none"> <li>• Cross and inter axle, differential lock drive</li> <li>• 6 x 4 Parabolic front and Semielliptic rear leaf suspensions</li> <li>• 315/80R22.5 tyres</li> </ul>
4.8	Steering system	<ul style="list-style-type: none"> <li>• Power assisted steering type</li> <li>• 500 to 510mm steering wheel diameter</li> </ul>
4.9	Electrical	<ul style="list-style-type: none"> <li>• 24v negative earth return tension</li> <li>• 28v, 90A, Alternator</li> <li>• 2 x 12v, 170Ah batteries</li> <li>• LED strobe lights mounted on Cab (Amber)</li> <li>• Lockable battery box</li> <li>• 110dB reverse buzzer</li> </ul>
4.12	Operator Environment	<ul style="list-style-type: none"> <li>• ROPS cab: (White coloured)</li> <li>• All-weather, enclosed pressurized, Sound suppressed panel glass, Meets ISO 3471 standards</li> <li>• Air suspended 3-way adjustable driver's seat</li> <li>• Advisor operator interface; Electronic monitoring system; Diagnostic service information</li> <li>• Full colour LCD monitor with analogue gauge</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> </ul>

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- Hydraulic cab tilt to 60 deg.
  - 9KG Fire extinguisher (with bracket)
  - Winch type operated spare wheel carrier
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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: ERI to own below listed data, and data sharing principles to be in line with company policy

- Hours
- Location
- Fuel usage
- 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/Ultime)**

- 0 to 300 000kms/2yrs (standard + extended) comprehensive/Premium warranty on each machine
- 12 months/50 000kms for rear axles
- In the event of intra-warranty repairs to new machines, supplier to be in a position to supply a loan machine to maintain availability margins

*Warranty (Standard and Extended) driveline coverage components to include, but not limited to: **Engine, Electronics, Transmission, Drive Axles, Retarder, PTO and CAB***

#### **7. Service and Maintenance Plan (Comprehensive/Premium/Ultime)**

- 200 000kms+ hours extended service plan to be added to package, services to be conducted in intervals of 10 000kms, with a 1000kms leniency gap
- Supplier to monitor and notify service intervals 1000kms prior to service
- Service plan to be inclusive of a service kit and labour
- 200 000kms+ Maintenance plan to be added to package

Service/Maintenance, components to include, but not limited to: **Engine, Electronics, Transmission, Drive Axles, Retarder, PTO and CAB**

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**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.

**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"> <li>• ISO 9001 accreditation (that of the equipment Supplier)</li> <li>• 100% compliance with technical specifications</li> <li>• Must be sized to meet the required tank capacity of - 10 cube/m<sup>3</sup></li> <li>• 100% compliance with delivery schedule</li> <li>• Loan machine confirmation to ensure minimum availability</li> <li>• Confirm that warranty/service/maintenance plans include - Engine, Electronics, Braking, Steering &amp; Suspension and CAB (indicate details)</li> </ul>				
Description		Technical Criterion	Scoring Criteria	Weight (%)
<b>1</b>	<b>OEM or Accredited Distributorship</b>			
1.1	Verifiable Proof of OEM status or accreditation	Proof of OEM registration or authorized distributor approval or agreement in the Gauteng, Mpumalanga, Limpopo regions	20 = verified and compliant OEM registration 10 = verified and compliant OEM agreement 0 = not verified and or compliant	
<b>2</b>	<b>Technical compliance (Please specify and reference location of required data)</b>			
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 Facilities	Proof of accredited workshop facilities registered with relevant repair-work statutory bodies in the Gauteng, Mpumalanga, Limpopo regions	10 = compliant 0 = non-compliant	
<b>Description</b>		<b>Technical Criterion</b>	<b>Scoring Criteria</b>	<b>Weight (%)</b>
<b>3</b>	<b>Delivery schedule</b>			
3.1	Product Delivery Schedule	Written confirmation of product delivery commitment	5 = 0 – 4 months 0 = 4+ months (Gatekeeper, does not quality)	
<b>4</b>	<b>Aftersales support confirmation</b>			
4.1	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	
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	Equipment monitoring hardware/software	Proof of online GPS location tracking, hours, fuel usage, productivity and diagnostics codes capability	10 = compliant 0 = non-compliant or non-submission	
4.4	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	

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**SOW – PURCHASE OF NEW 10m<sup>3</sup> TIPPER TRUCK**

Unique Identifier:

Revision: **0**Page: **9 of 10**

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4.5	Loan Machine Confirmation	In the event of intra-warranty repairs to new machines, supplier to be in a position to supply a loan machine within 48hrs post warranty confirmation, to maintain availability margins	10 = Compliant 0 = Non-compliant or non-submission (Gatekeeper, does not quality)	
<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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### **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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