

**Title: SOW – Purchase of New Yellow Document Identifier:  
Plant – Articulated Dump Truck  
Water Truck**

Alternative

Reference Number: Not Applicable

Area of Applicability: Eskom Rotek Industries  
SOC Ltd

Functional Area: Bulk Material Services

Revision: 0

Total Pages: 11

Next Review Date:

Disclosure  
Classification: Controlled Disclosure

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Compiled by

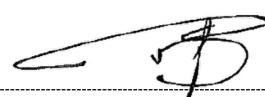


Shuaib Gaibie

Senior Engineer

Date: 08/03/2024

Functional Responsibility

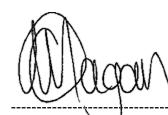


Sifiso Mthethwa

Mobile Plant HOD

Date: 08/03/2024

Authorized by



Vishal Magan

Engineering Manager

Date: 08/03/2024

**1. Purpose**

The purpose of this document is to outline the scope requirements for the purchase of new yellow plant fleet specifically Articulated Dump Truck (ADT) water tankers for Eskom Rotek Industries (ERI) to use at Kusile PS.

**2. Brief overview of our business**

Eskom Rotek Industries (ERI) Bulk Material Services (BMS) division provides, amongst other services, yellow and white 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 and white 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 is for the supply and delivery of new ADT Water Truck yellow plant fleet, with warranty services, to ERI BMS Kusile PS, Johannesburg.

**4. Scope of Work**

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

<b>No.</b>	<b>Boundary/Equipment</b>	<b>Specification</b>
4.1	Engine	<ul style="list-style-type: none"><li>• Tier 3/Stage IIIA emissions equivalent</li><li>• Six-cylinder; turbocharged, Diesel</li><li>• Gross Engine power– 200 to 300 Kw range</li><li>• Gross Torque range – 1000 to 2000 Nm @1300rpm</li><li>• Displacement range 6.5 to 10 L</li></ul>

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No.	Boundary/Equipment	Specification
4.2	Tank Water Tank Plumbing	<ul style="list-style-type: none"> <li>• Water Tank SAE Capacity - 27000 - 30000 Liters</li> <li>• Tank must be filled in no more than 20 minutes.</li> <li>• Head of 50m</li> <li>• Water tank to be fitted with canon</li> <li>• Water delivery control system to be inside the driver's cab</li> </ul>
4.3	Transmission	<ul style="list-style-type: none"> <li>• 6 to 16 Forward / 1 reverse</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 – more than 350 Liters, with lockable fuel cap</li> </ul>
4.5	Axle	<ul style="list-style-type: none"> <li>• High input limited slip differential with spiral bevel gears</li> <li>• Outboard heavy duty planetary on all axles</li> </ul>
4.6	Steering system	<ul style="list-style-type: none"> <li>• Power assisted steering type</li> </ul>
4.7	Electrical	<ul style="list-style-type: none"> <li>• 24v negative earth return tension</li> <li>• 28v, 80A, Alternator</li> <li>• 2 x 12v, 75Ah batteries</li> </ul>
4.8	Water tanker plumbing	<ul style="list-style-type: none"> <li>• rate of flow 1800 l/min</li> <li>• 50m head</li> </ul>
4.9	Operator Environment	<ul style="list-style-type: none"> <li>• ROPS cab:</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> </ul>

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- Visibility – Rear vision camera / rear view mirrors
- Lighting – LED lights package
- Interior LED courtesy lights
- Radio ready
- Power supply – 24V
- Sun visor – front/rear
- Hydraulic cab tilt to 60 deg.
- Air conditioner and Heater

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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 Johannesburg
- Commissioning of product must be within 3 days after delivery on site

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**8. After Sales/Market Support**

<b>No.</b>	<b>Service</b>
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 to provide free technical training for Artisans
6.	Provide free Operator and Supervisor training within 30 days of delivery
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

**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

<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 water storage capacity of 27000 – 30000 liters</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	
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	

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Description		Technical Criterion	Scoring Criteria	Weight (%)
<b>3 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>		

**Suppliers are to meet all gatekeepers and obtain a score above 75% to be deemed acceptable.**

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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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