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|  | <p align="center">YELLOW MOBILE PLANT UNDERCARRIAGE, GET – SUPPLY, REPAIRS AND MAINTENANCE SCOPE OF WORK</p> | <p align="center">Bulk Material Services</p> |
|---|---|---|

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Supply, Repair and Maintenance**

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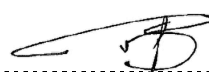
Functional Responsibility



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1. Purpose

The purpose of this document is to outline the scope requirements for the supply, repairs and maintenance of BMS yellow mobile plant Undercarriage and Ground Engagement Tool (GET) components for Eskom Rotek Industries (ERI) Bulk Material Services (BMS) Mobile plant on an “*as and when required basis*”.

2. Context of Supply, Repair and Maintenance of BMS Mobile Plant Undercarriage & GET

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.

Amongst its fleet (+- 300 in total), the BMS Mobile plant makes use of the following brands; Bell, Caterpillar, Komatsu, Hitachi, Volvo, Doosan, Hyundai and John Deer; through which the following machines are housed – Bulldozers, Front end loaders, Excavators, Smooth Drum rollers, Backhoe loaders and trucks.

Many of these machines (whose materials are made of hardened steel) are used for dozing, digging, grading for/on various surfaces/environments such as coal, ash, rocks and hard soil

In order for BMS to provide a high standard of service, a well maintained and reliable mobile fleet is essential – hence the need to further ensure reliable maintenance, repairs and replacement of its **Undercarriage and Ground Engagement Tool** components such as - **Track links, Top/Bottom Rollers, Upper/Bottom Tracks, Sprockets, Track shoes, Idlers, Buckets and Cutting edge**.

3. Scope of Work

The objectives are to:

- Conduct maintenance, repairs (planned and unplanned) or replacement of/on Undercarriage and Ground Engagement Tool components for the BMS mobile plant on an “*as and when required basis*”.
- The components are to be maintained and/or repaired to their original state, or otherwise replaced where they are deemed to be beyond repair.
- The repairs and maintenance to the equipment are to include:
 - Rebuild Idlers, rollers and track guides
 - Replacement of bushes and pins on link assemblies
 - Refilling of grouser shoes

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3.1. The Suppliers is required to:

- Possess or have access to an accredited heavy equipment repair work workshop(s)
- Maintain and repair/replace BMS yellow plant's Undercarriage and Ground Engagement Tool (GET) components, according to relevant OEM specifications
- Provide a warranty service for maintenance and repairs conducted
- Be able to provide a 24/7 (or timeous) total breakdown and/or technical support as and when required.
- Be able to provide Onsite or Off-site repair services, as and when required.
- Conduct quarterly undercarriage inspections and surveys on earth moving equipment and provide status report with recommendations.
- Be able to conduct failure analysis reports and recommend preventative practices to avoid future failures.
- Be able to provide in/off-house skills transfer and/or training for client's employees, as and when required.
- Ensure compliance to ISO 9001, 14001 and 18001 standards

3.2. The maintenance and repairs are to be conducted for the following machine brands and types, as and when required:

| Bulldozers | | |
|------------|-------------|------------------------------------|
| No. | Brand/Make | Model |
| 1 | Caterpillar | D9, D8R and D7R |
| 2 | Komatsu | D155-1 ; D155-5; D155-6 and D85 EX |

| Excavators | | |
|------------|-------------|---------------------------|
| No. | Brand/Make | Model |
| 6 | Bell | HD 820E ; HD2045; HD 1430 |
| 7 | Caterpillar | 325 C; 325 D; 320D2L |
| 8 | Komatsu | PC 200-7; PC 300; PC 450 |
| 9 | Volvo | EX 210 |
| 10 | Doosan | DX 200A |

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| Front End Loader | | |
|------------------|-------------|----------------|
| No. | Brand/Make | Model |
| 11 | Bell | L 2606D |
| 12 | Caterpillar | 966 H |
| 13 | Komatsu | WA 470; WA 320 |
| 14 | Hitachi | ZW310 |
| 15 | Doosan | DX 200A |

| Motor Grader | | |
|--------------|-------------|--------------|
| No. | Brand/Make | Model |
| 16 | Bell | 670 G; 770 D |
| 17 | Caterpillar | 140 H |

| Backhoe Loaders | | |
|-----------------|-------------|-------|
| No. | Brand/Make | Model |
| 22 | JCB | 3CX |
| 23 | Caterpillar | 422 E |



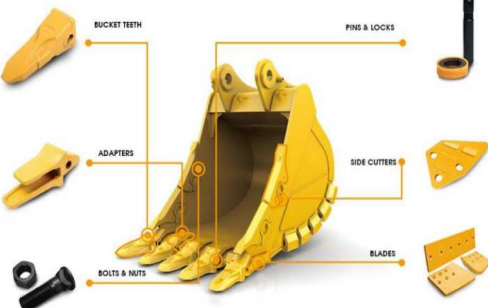
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3.3. Below are descriptions and depictions of the expected types of components to undergo maintenance, repairs or replacement.




3.3.1. Bucket components:

| Components | Description | Possible repair/maintenance SOW |
|----------------------------------|---|---|
| Coal Bucket Cutting Edges | SAE/ISO rated machines – Up to 12m3  | Service Repair Parts replacement Rebuild Warranty |
| General Purpose Bucket with Tips |  | Service Repair Parts replacement Rebuild Warranty |
| Excavator Bucket and components |  | Service Repair Parts replacement Rebuild Warranty |

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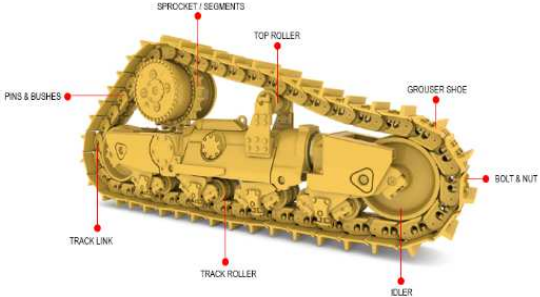



| | | |
|-----------------------|--|---|
| Ripper Shank/Teeth | <p>Ripper Shank /Tooth</p>  | Service Repair Parts replacement Rebuild Warranty |
| Tips and Adaptors | <p>Tips & Adaptors</p>  | Service Repair Parts replacement Rebuild Warranty |
| Grader Blades | <p>Grader Blades</p>  | Service Repair Parts replacement Rebuild Warranty |

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3.3.2.Undercarriage and components:

| Components | Description | Possible repair/maintenance SOW |
|------------------------------|---|--|
| Undercarriage | <p>SAE/ISO rated equipment – As per listed machine brands</p> <p>-Raised and flat sprocket types</p>  | <p>Service</p> <p>Repair</p> <p>Parts replacement</p> <p>Rebuild</p> <p>Warranty</p> |
| Track and Carrier Rollers |  <p>Track Roller</p> <p>Carrier Rollers</p> | <p>Service</p> <p>Repair</p> <p>Parts replacement</p> <p>Rebuild</p> <p>Warranty</p> |
| Track Chain, Links and shoes |  <p>Track Chain</p> <p>Track Link</p> <p>Track Shoes</p> | <p>Service</p> <p>Repair</p> <p>Parts replacement</p> <p>Rebuild</p> <p>Warranty</p> |
| Sprocket rims and segments |  <p>Sprocket Rims and Segments</p> | <p>Service</p> <p>Repair</p> <p>Parts replacement</p> <p>Rebuild</p> <p>Warranty</p> |

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3.4. The BMS Mobile Plant department representative(s) may be visiting supplier workshop facilities to verify compliance pre-contract and to continuously evaluate service progress inter-contract.

NB: An external audit may be conducted by the BMS SHEQ department panel on the contractor before any contract or work is awarded. The audit will determine if the capacity and capabilities of the awarded contractor as compared to the scope of work and execution period.

4. 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
- ISO 14001 Environmental Management Systems
- Occupational Health and Safety Act and Regulations (85 of 1993)
- 240-62196227_Eskom Life Saving Rules - compliance
- 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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