

	<b>Scope of Works</b>	<b>Eskom RoteK Industries</b>
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Title:	Scope of Work for the supply, fabrication, erection and installation of materials and service for establishment of ERI BMS site facilities at at Medupi Power Station	Unique Identifier:	<b>MED-BMS-ASH002</b>
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Compiled	Functional Responsibility	Authorised by
		
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Date: <b>2023/05/12</b>	Date: <b>2023/03/29</b>	Date: <b>15/05/2023</b>

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### Controlled Disclosure

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## **1. INTRODUCTION**

ERI BMS at Medupi Power Station was awarded a contract for the coal and ash materials handling for a duration of 10 years. The execution of the scope requires transportation of employees of which belongs to ERI and some outsourced through Enabling contracts.

ERI BMS Medupi requires an established site for Ash and Coal operations and maintenance. Currently, site offices and ablution facilities have been erected but the need refurbishment and other works are required to meet the requirements of the facilities regulations act.

## **2. SUPPORTING CLAUSES**

### **2.1 SUMMARY**

The scope of work to for the provision of Maintenance services enabling contract at Medupi Power Station

### **2.2 PURPOSE**

The purpose of this document is to provide the requirements for the Scope of Work for the supply, fabrication, erection and installation of materials and service for establishment of ERI BMS site facilities at at Medupi Power Station needed by the employees of BMS Ash and Coal maintenance and operations project and Auxiliary Maintenance project . Full details are given in section 3.2 of this Scope of Works.

### **2.3 APPLICABILITY**

This document shall apply to Medupi Power Station BMS coal and ash maintenance and operations project.

### **SPECIAL NOTES**

- Any details or documents accompanying this Scope of Works are strictly for Tender purposes ONLY; and meant to give potential Contractor information.

### **2.4 NORMATIVE/INFORMATIVE REFERENCES**

#### **Normative**

The applicable reference documents are listed below. These documents (latest revision) form part of this specification to the extent as specified in this specification. In the event of a conflict between the text of this specification and the applicable parts of the Eskom documents listed below, the text of this specification takes precedence. However, this specification does not supersede applicable laws and regulations (including the SANS standards), unless a specific exemption has been obtained from the relevant authorities.

- |                       |   |
|-----------------------|---|
| [1.] 240-53665024     | : Engineering Quality Manual.                     |
| [2.] ISO 9001         | : Quality Management Systems.                     |
| [3.] 240 – 1065658000 | : Supplier Quality Management Specification.      |
| [4.] 200 - 1689       | : Project Quality Plan                            |
| [5.] 200 – 1679       | : Medupi Quality Specifications                   |
| [6.] 200 – 5667       | : Control of Drawings Procedure                   |
| [7.] 240-106628253    | : Standard for Welding Requirement on Eskom Plant |

#### **Informative**

- [1] OHS Act : Occupational Health and Safety Act of 1993.

## 2.5 DEFINITIONS

Within context of this Scope of Works, the following terms are explained in table below:

Definition	Description
Contractor	The appointed person to perform the works
Accommodation	A building or room in which someone may live or stay.
Rental	An amount paid or received as rent.

## Disclosure Classification

Controlled Disclosure: **Controlled Disclosure to external parties (either enforced by law, or discretionary)**

## 2.6 ABBREVIATIONS

Abbreviation	Description
BMS	Bulk Material Services
SANAS	South African National Accreditation System
SANS	South African National Standards
QMS	Quality Management System
ISO	International Standards Organization
OHS	Occupational Health and Safety Act

## 2.7 ROLES AND RESPONSIBILITIES

### Eskom Rotek Industries

- Ensure that the contractor/supplier has the relevant and applicable standards and specifications governing the supply of the reworks on plant equipment
- Ensure that the supplier has the right revision of approved construction drawings with correct quantities.
- Ensure the contractor has convenient access to Medupi Site for the Supplier.
- Ensure the contractor understands Medupi's site-specific regulations relating to Safety, Health Environment and Quality

### Contractor/Supplier

- Ensure that the Supply and Supplied Works conform to and satisfy to the specifications as set out in this scope of works.
- Ensure they obtain useful and relevant information to enable effective completion of the works, including but not limited to Specifications, approved construction drawings, any OEM Manual, plant Operation manual/s.
- Ensure they communicate with ERI to understand the full nature of the Scope of works required.
- Ensure they understand the time frames set for completion of the Works.

## **2.8 PROCESS FOR MONITORING**

The schedule and target delivery date of all items will be communicated by the **supplier**, in writing to Eskom Rotek Industries after order placement with **fixed and firm dates**.

## **2.9 RELATED OR SUPPORTING DOCUMENTS**

- N/A

## **3. SCOPE OF WORK**

### **3.1 EMPLOYER'S REQUIREMENTS FOR THE SERVICE**

The Employer's objectives are to:

- Obtain site office establishment service for the operations of the system as required to be completed in a specific period.

The successful service provider is responsible to provide the materials and services as per bill of quantities supplied on an as and when required basis. The successful service provider shall be **provided with** workshop facilities for the activities for performing the tasks and thus needs to bear that in mind when pricing.

The costs for activities shall be re-measurable after the completion of the activities. Any service provider that is involved in unsafe act or environmental contravention will have to be stopped until an improvement plan is approved by the ERI BMS site management.

### **3.2 TECHNICAL REQUIREMENTS**

The specification included is a minimum guideline for the required activities and can only be used as an indicator of the class of the maintenance that is required. The quantities are an estimate of requirements is based on and as and when required basis.

#### **3.2.1 Ash Dump Facilities**

##### **3.2.1.1 Civils, Paving and Structural**

- Supply and erect fencing 200m x 100m around the yard, height 3m and two gates at each end of the yard
- Supply, install paving of 20m X20m. (Supplier to make provision for all materials sand, paving blocks e.t.c also equipment required to complete the task.)

##### **3.2.1.2 Disassembly, rigging and Transportation**

- Disassemble and dismantle of 2 off containers (1 off 16m and 1 off 8m long containers)
- Rigging and Transportation to new laydown area distance of 1 km
- Repositioning, re-assembly of containers
- Waterproofing and sealing of containers

NB!! Supplier to provide its own rigging tools, plant, lowbed required to fully complete the task. All tools deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.1.3 Plumbing and Ablution Facilities**

- Digging of trench to joining sewage line off 50m long.
- Supply, install and function test sewage line from kitchen connection point
- Supply, install, function and leak test a potable water line to the kitchen connection point
- Sealing and waterproofing of containers
- Supply and installation Drinking water tanks x1(2500 litres)
- Supply, digging for and installation off Septic tanks x1(6000 litres)

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.1.4 Refurbishment of Existing containers**

- Removal and disposal of damaged windows
- Supply, fabricate and install of new windows and frame
- Supply and Installation of blinds
- Supply and installation of door handles
- Removal of damaged 1 off kitchen cupboard
- Supply, fabrication, and installation 1 off new kitchen cupboard
- Modification of door frames to suit installation of pneumatic door closer

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.1.5 Electrification and lighting**

- Supply, installation of 2 off distribution box
- Supply, termination, and installation of plug points,
- Supply, installation, function testing of air conditioners
- Supply, installation, function testing of water boiler
- Supply and installation and function testing of lighting
- Supply of COC upon completion of electrical works.

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.1.6 Parking Bay**

- Supply and installation of arc shaped 2 off triple car port
- Supply and installation off 18mX 6m yard stone (13mm)

NB!! Supplier to make provision for all materials sand, stone e.t.c also equipment required to complete the task.

### **3.2.3 Maintenance Facilities (Coal Stock Yard Offices)**

#### **3.2.3.1 Civils, Paving and Structural**

- Fencing 200m x 100m around the yard, height 3m and two gates at each end of the yard
- Supply, install paving of 50m X20m. (Supplier to make provision for all materials sand, paving blocks e.t.c also equipment required to complete the task.)

#### **3.2.3.2 Plumbing and Ablution Facilities**

- Digging of trench to joining sewage line off 300m long
- Supply, install and function test sewage line from 3 off kitchen connection point
- Supply, install, function and leak test a potable water line to the 3 off kitchen connection point
- Sealing and waterproofing of containers

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

#### **3.2.3.3 Refurbishment of Existing containers**

- Refurbishment of 6 off 22m long containers and 2 off 8 m long containers
- Removal and disposal of damaged 80 off 1m by 1m windows
- Supply, fabricate and install of new windows and frame
- Supply and Installation of blinds
- Supply and installation of 16 off door handles
- Modification of door frames to suit installation of 16 off pneumatic door

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

#### **3.2.3.4 Electrification and lighting**

- Supply, installation of 8 off distribution board
- Supply, termination, and installation of plug points,
- Supply, installation, function testing of air conditioners
- Supply, installation, function testing of water boiler
- Supply and installation and function testing of lighting
- Supply of COC upon completion of electrical works.

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.3.5 Parking Bay**

- Supply and installation of 4 off arc shaped, IBR sheeting, steel triple car port
- Supply and installation off 50mX 8m yard stone (13mm)

## **3.2.4 OPS support (Cleaning Offices)**

### **3.2.4.1 Civils, Paving and Structural**

- Fencing 200m x 200m around the yard, height 3m and two gates at each end of the yard
- Supply, install paving of 50m X30m. (Supplier to make provision for all materials sand, paving blocks e.t.c also equipment required to complete the task.)
- Supply, install steel shade of 36m X9mX3,4 m high. (Supplier to make provision for all materials corrugated sheeting, lip channels, square tubing, screws, painting e.t.c also equipment required to complete the task.)

### **3.2.4.2 Disassembly, rigging and Transportation**

- Disassemble and dismantle of 3 off 22m long containers
- Rigging and Transportation by 2000km to new laydown area
- Repositioning, re-assembly of containers
- Waterproofing of containers

NB!! Supplier to provide its own rigging tools, plant, lowbed required to fully complete the task. All tools deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.4.3 Plumbing and Ablution Facilities**

- Digging of trench to joining sewage line off 100m long.
- Supply, install and function test sewage line from kitchen connection point
- Supply, install, function and leak test a potable water line to the kitchen connection point
- Sealing and waterproofing of containers
- Supply and installation Drinking water tanks x2(2500 litres each)
- Supply, digging for and installation off Septic tanks x2(6000 litres)

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.4.4 Refurbishment of Existing containers**

- Refurbishment of 6 off 22m long containers
- Removal and disposal of damaged 60 off 1m by 1m windows
- Supply, fabricate and install of new windows and frame



- Supply and Installation of blinds
- Supply and installation of 12 off door handles
- Modification of door frames to suit installation of 12 off pneumatic door closers
- Conversion of 1 off 22m long container into boardroom
- Conversion of 1 off container into kitchen

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.3.5 Electrification and lighting**

- Supply, installation of distribution board
- Supply, termination, and installation of plug points,
- Supply, installation, function testing of air conditioners
- Supply, installation, function testing of water boiler
- Supply and installation and function testing of lighting
- Supply of COC upon completion of electrical works.

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.3.6 Parking Bay**

- Supply and installation of arc shaped 2 off triple car port
- Supply and installation off 20mX 10m yard stone (13mm)

NB!! Supplier to make provision for all materials sand, stone e.t.c also equipment required to complete the task.

## **3.2.4 Auxiliary Maintenance Offices**

### **3.2.4.1 Civils, Paving and Structural**

- Fencing 100m x 100m around the yard, height 3m and two gates at each end of the yard
- Supply, install paving of 50m X30m. (Supplier to make provision for all materials sand, paving blocks e.t.c also equipment required to complete the task.)

### **3.2.4.2 Disassembly, rigging and Transportation**

- Disassemble and dismantle of containers 8 Off 22metre log
- Rigging and Transportation to new laydown area, 20
- Repositioning, re-assembly of containers

- Waterproofing of containers

NB!! Supplier to provide its own rigging tools, plant, lowbed required to fully complete the task. All tools deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.4.3 Plumbing and Ablution Facilities**

- Water tanks and pipes to connect water to facilities 100m
- Digging of trench to joining sewage line 100m
- Supply, install and function test sewage line from kitchen connection point
- Supply, install, function and leak test a potable water line to the kitchen connection point
- Sealing and waterproofing of containers
- Drinking water tanks x2 (2500 litres)
- Septic tanks x2 2500 litres)

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.4.4 Refurbishment of Existing containers**

- Removal and disposal of damaged windows
- Supply, fabricate and install of new windows and frame
- Supply and Installation of blinds
- Supply and installation of door handles
- Modification of door frames to suit installation of pneumatic door
- Installation of pneumatic door frames

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### **3.2.4.5 Electrification and lighting**

- Supply, installation of distribution board
- Supply, termination, and installation of plug points,
- Supply, installation, function testing of air conditioners
- Supply, installation, function testing of water boiler
- Supply and installation and function testing of lighting
- Supply of COC upon completion of electrical works.

NB!! All tools and materials deemed necessary for the execution of the scope is to be provided by the supplier.

### 3.2.4.6 Parking Bay

- Supply and installation of 4 off arc shaped, IBR sheeting, steel triple car port
- Supply and installation off 50mX 8m yard stone (13mm)

### 3.2.5 Exclusions

Employer to make provision of mobile plant such as excavators, TLB. Rollers e.t.c

### 3.3 DELIVERABLES

The successful service provider shall provide a works schedule for work execution daily to the site manager. The successful service provider provides service to BMS within the specified time of notice given in writing.

## 4.MANAGEMENT STRATEGY AND START UP.

### 4.1 THE *CONTRACTOR'S* PLAN FOR THE *SERVICE*

The contractor is required to submit plan for service within 7 days after receiving a work instruction from the service manager

### 4.2 MANAGEMENT MEETINGS

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk registers and compensation events	As and when required	Site offices or Head Office	<i>Employer and Contractor</i>
Overall contract progress and feedback	As and when required	Site offices or Head Office	<i>Employer and Contractor</i>

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Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature, and the progress of the *service*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

## 5 HEALTH AND SAFETY, THE ENVIRONMENT AND QUALITY ASSURANCE

### 5.1 HEALTH AND SAFETY RISK MANAGEMENT

The appointed provider complies with the requirements of the OHS Act 85 of 1993 as well as the Employer's Standards and Procedures regarding 'Health and Safety at Eskom Power Stations'

The appointed provider co-operates fully with the Employer's accident prevention procedure Document 32-95 as provided to mobile plant service provider on site-by-site management.

## 5.2 QUALITY ASSURANCE REQUIREMENTS

The service provider conforms to the Quality Management requirements as stipulated in the User Requirement specification.

The quality requirements are as per ISO 9001, and Eskom Standard QM-58 Quality Requirements for Engineering and Construction works (Annexure A and B for the applicable section)

## 5.3 REQUIRED INFORMATION

- Quality, Test and Material Certificates on the supplied Materials
- Any Factory Acceptance Certificates where applicable
- Delivery Notes

## 5.4 CONFORMANCE

- ISO 9000

## 6. AUTHORIZATION

This document has been seen and accepted by:

Tshepo Motlhabane

## 7. REVISIONS

Date	Rev.	Compiler	Remarks
2023/03/09	0	Tshepo Motlhabane	First Draft

## 8. ACKNOWLEDGEMENTS

- Tshepo Motlhabane

## ANNEXURE A: BILL OF QUANTITIES

### BOQ Medupi BMS Site Establishment

A1	Preliminaries and General	UoM	Quantity	No	Rate	Amount
A1.1	Annual Medical Screening	Once off	1,00	38,00		
A1.2	Exit medical Screening	Once off	1,00	38,00		
A1.3	PPE	Annual p/p	1,00	38,00		
A1.4	Site Establishment and De-establishment	once - off	1,00	2,00		
	<b>Sub-Total</b>					
B1	Labour	UoM	Quantity	Hours	Rate	Amount
B1.1	Supervisor	hours	4,00	432,00		
B1.2	Steel Erectors	hours	8,00	141,00		
B1.3	Shutterhands	hours	4,00	156,00		
B1.4	Fitter Mechanical	hours	4,00	240,00		
B1.5	Utility man/ Semi Skilled	hours	8,00	342,00		
B1.6	Riggers	hours	3,00	340,00		
B1.7	Plumber	hours	2,00	72,00		
B1.8	Boilermaker	hours	2,00	60,00		
B1.9	Pavers	hours	3,00	80,00		
	<b>Sub-Total</b>					

C1	Plumbing Material	UoM	Quantity	Number	Rate	Amount
C1.1	Tank, 2500l , vertical, plastic water Tank, Green	each	6,00	1,00		
C1.2	Tank, Septic Tank, Horizontal, 6000l, 1850mm X 2450mm	each	5,00	1,00		
C1.3	Pipe, Copper 15mm	m	550,00	1,00		
C1.4	Pipe, PVC 50mm	m	250,00	1,00		
C1.5	Pipe, PVC 110mm	m	240,00	1,00		
C1.6	Waste Water Trap, Plumbing kit, double sink, 50/90mm outlet	set	7,00	1,00		
C1.7	Pump, Water tank booster pump, 0,75kW, 80l/hr, 230V c/w auto start stop controller	each	6,00	1,00		
C1.8	Fitting, copper conression fitting, 15mm, straing coupling, male male	each	60,00	1,00		
C1.9	Fitting, copper, compression fitting, 15mm equal tee	each	60,00	1,00		
C1.10	Fitting, copper, compression fitting, 15mm 90 degree elbow	each	60,00	1,00		
C1.11	Valve, ball valve, 15mm brass, threaded ball valve	each	40,00	1,00		
C1.12	Fitting, PVC, 50mm, Tee	each	25,00	1,00		
C1.13	Fitting, PVC, 50mm, Tee, 3 way, 45 degree	each	10,00	1,00		
C1.14	Fitting, PVC, 50mm, bend 45 degree, with access	each	20,00	1,00		
C1.15	Fitting, PVC, 110mm, double socket	each	10,00	1,00		
C1.16	Fitting, PVC, 110mm, plain junction 90 degree	each	10,00	1,00		
C1.17	Fitting, SV, 110 mm 90 degree bend, with access	each	10,00	1,00		
C1.18	Fitting, 110mm 45 degree bend with access	each	25,00	1,00		
	Sub-Total					

D1	Material	UoM	Quantity	No	Rate	Amount
D1.1	Cement 32,5 kN, 50 kg bag	each	60,00	1,00		
D1.2	Stone 13mm, granite	m^3	60,00	1,00		
D1.3	Riversand	m^3	45,00	1,00		
D1.4	Post, Y steel fence post 1800mm	each	480,00	1,00		
D1.5	Post, boundary fence post, round 32X 1,6- 3m	each	68,00	1,00		
D1.6	Gate and Fence Stay C/W Base Plate L/G (2400 x 38mm)	each	36,00	1,00		
D1.7	Wire, Galvanized fence wire, 4mm X 50m	each	48,00	1,00		
D1.8	Fence, Galvanized welded mesh 30m X 1800mm	each	80,00	1,00		
D1.9	Gate, Gate and Fence, diamond Mesh, 1,8X 3m	set	8,00	1,00		
D1.10	Carport, Arc Shaped Carport, IBR Roof sheeting. 0.5 mm thickness, 150 x 50 x 20 x 2 mm Lip channel – Outer steel frame 100 x 50 x 20 x 2 mm Lip channel – Inner frame (where your IBR is resting on to give the carport a nice “fascia” finish) 76 x 76 mm Square tube columns which is concreted securely into the ground. standard height of , 2.4 meters	set	12,00	1,00		
	Sub Total					

E1	Shade Material	UoM	Quantity	No	Rate	Amount
E1.1	Square Tubing, 100mX100X3mm, 6m LG	m	9,00	1,00		
E1.2	Square Tubing, 76X76X3mm, 6m LG	m	27,00	1,00		
E1.3	Lip Channel, 100X50X20X3mm, 6m LG	m	288,00	1,00		
E1.4	IBR Sheetting, 6mX 750mmX 0,47mm	each	102,00	1,00		
E1.5	Screw Nails, 6mm X 40mm	each	300,00	1,00		
	Sub Total					
F1	Paving Material	UoM	Quantity	No	Rate	Amount
F1.1	Interlock pavers 80mm, 200X100X80mm, grey, pallet	set	43,00	1,00		
F1.2	barrier kerb, 1000X180X280	m	260,00	1,00		
	Sub Total					
G1	Plant	UoM	Quantity	No.	Rate	Amount
G1.1	Hire Lowbed, comes with opertor, deisel, permits and escort vehicles	km	300,00	1,00		
	Sub-Total					

H1	Electrification	UoM	Quantity	No.	Rate	Amount
H1.1	DB Board, IP 65 rating, Complies with IEC60669-2-1, IEC60669-1, SANS60947-2, SANS556-1 and VC8036 safety standards. 18Way Distribution Board Fully Populated MDB18-6SUR/ST/POP 18Way surface Distribution Board complete with: 1x 63A 2pole 3kA breaker 1x MRCD-63 2pole Earth Leakage 1x 40A 1pole 3kA breaker 4x 20A 1pole 3kA breaker 3x 10A 1pole 3kA breaker	each	16,00	1,00		
H1.2	220v 4x4 plugs	each	320,00	1,00		
H1.3	26 Watts lights	each	320,00	1,00		
H1.4	Split type Air Condition 12000BTU with B Rating	each	80,00	1,00		
H1.5	HYDROBOIL 2610012 10LT WHITE EPOXY (60 CUPS)	each	16,00	1,00		
H1.6	Free standing distribution board sizes, IP67 rating. 125A- 180A Simple plug & play connectivity 230V – 400V single and three phase – 50hz Interchangeable socket outlets from 16A – 63A Glanded hardwire facility MCB'S have C – type trip curves, all RCD's and RCBO's are type A IP rating: IP54 up to IP65 Stainless steel 1.4003 or Zintec 2.00 mm enclosures Door interlocking pad lockable handle Secondary door for access to main supply for safe isolation Galvanised crash frame, forklift pockets and certified lifting points switchable and adjustable earth leakage	each	4,00	1,00		
H1.7	Supply cable 95mm squared x500m	each	1,00	1,00		
H1.9	Certificate of Compliance (COC)	each	16,00	1,00		
	<b>Sub-Total</b>					
I1	<b>Refurbishment of Containers</b>	<b>UoM</b>	<b>Quantity</b>	<b>No.</b>	<b>Rate</b>	<b>Amount</b>
I1.1	Refurbishment of containers	each	18,00	1,00		
	<b>Sub-Total</b>					
	<b>Total Excl.</b>					