

 Eskom	Scope of Work	Matimba Power Station
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Title: **Matimba Power Station, Supply and Delivery of DHP Drives Spares**

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1. Introduction

The Dust Handling Plant plays a crucial role in conveying captured ash in the hoppers to the ash bunkers ensuring hopper levels are managed and preventing electrostatic precipitator damage and at the same time reducing dust emissions. This document highlights the SOW for the supply and delivery of Dust Handling Plant spares.

2. Supporting Clauses

2.1 Scope

This document sets out the detailed User Scope of Work requirements necessary for Dust Handling Plant Drive spares.

2.1.1 Purpose

The purpose of this document is to define a User Scope of Work requirement based on which a supply contract will be established between the Employer and the supplier.

Matimba Power Station is expected to perform at EAF>85, PCLF<8 and UCLF<5, and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified user supply requirements scope of work.

2.1.2 Applicability

This document shall apply to the user requirements of supply of DHP Drive spares to Matimba Power Station.

2.1.3 Effective date

The effective date of this document is as per the date and signature of the authorizer, as indicated on the cover page.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems.
- [2] 32 – 1034: Procurement and Supply Chain Management Procedure

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[3] 32- Preferential Procurement Policy Framework Act 5 of 2000

2.2.2 Informative

[1]. 240-62072907: Eskom Delegation of Authority Policy.

[2]. 240-165040111: Supplier Terms Policy

[3]. 32-1033: Procurement and Supply chain Management Policy

[4]. 240-141007195: Electronic Signature usage Policy

[5]. 240-156280553: Procedure for signing documentation electronically using the Eskom electronic signing system.

[6]. 240-168966153: Generation Tender Technical Evaluation Procedure

2.3 Definitions

2.3.1. Ad hoc: A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.

2.3.2. *Contractor*: Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.

2.3.3. Controlled Disclosure: Controlled disclosure to external parties (either enforced by law, or discretionary.

2.3.4. Employer: Eskom or Eskom Generation, Matimba Power Station.

2.3.5. Parties: The Employer and the Contractor.

2.3.6. Supply Manager: The Employer's representative in regard to the supply contract agreement.

2.4 Abbreviations

Abbreviation	Description
NECSC	Supply Contract Document
URS	User Requirement Specification.
CFT	Cross Functional Team
OEM	Original Equipment Manufacturer.
PCM	Process Control Manual.

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PDF	Portable Document Format.
QCP	Quality Control Plan.
SAP	Systems, Applications Products.
TET	Technical Evaluation Team
SME	Subject Matter Expert

2.5 Roles and Responsibilities

2.5.1 Supply Manager

1. Co-ordinating and Manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manage and maintain records and correspondence between the employer and service provider.
6. Ensures that the service provider comply with the terms and conditions of the contract.
7. Keep the records of the contract for history and audit purposes.

2.5.2 Contractor

1. Supply of spares service to the *Employer* in accordance with Matimba Power Station procurement process as per spares URS.
2. Ensure that quality of spares delivered in Process for Monitoring in accordance to the Scope of Work as stipulated within Matimba Power Station spares URS.
3. The supplier shall ensure that all spares are accompanied by their related user specification as per their URS.

2.6 Process of Monitoring

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control. QC will be done by an End User(Engineer or Maintenance Technician) to ensure that description of delivered items complies with that of the order. Any spare/s not delivered as per the agreed and negotiated SOW will be rejected and the supplier must collect the rejected spares withing 5 working days and delivery the correct spare with int the agreed delivery time. A default notification will be issued to the supplier in the event of this happening.

2.7 Related/Supporting Documents

[1]. NEC 3 Supply Contract.

3. Document Content

3.1 General

3.1.1 Adherence to Eskom General Policies & Standards

The Supplier shall ensure that their Employees delivering spares to site comply with Eskom's policies and site regulations and Eskom's Life Saving Rules.

3.1.2 Quality Standard

The Supplier shall ensure that the quality of spares delivered to Matimba is as per the ISO 9001 Standard to support Matimba's objective of improving performance.

3.1.3 Document Control

All contractual communication between the *Employer* and *Supplier* shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

3.1.4 Contractual Meetings

a) ADHOC Meetings can be scheduled and agreed upon

3.1.5 Correspondence

All verbal and non – verbal communication between the *Employer* and *Supplier* shall be communicated in an electronic format which can be read or copied.

3.2 Scope of Work Information

3.2.1 DHP Drives SOW

Table 1: Drives Material List

No	Material Number	Material Description and Text	Material Specifications	Criticality	Design Quantity	Required Quantity	Unit of measure	
1	625258	BE Anti Run Back Unit	HOLDBACK: TYPE: ANTI RUN BACK; DIMENSIONS: ID 65 MM; MATERIAL: STEEL; RIZ 90-65 MM BORE G3; G2-COVERS; SPROCKET-2	C	12	6	Each	
2	37223	fusible plug	PLUG, FUSIBLE: CORE MATERIAL: CU; TEMPERATURE RATING: 160 DEG C; SIZE 10MM DIA X 10MM LG ALLEN HEAD; FOR USE ON 562 SVN VOIGHT FLUID DRIVE COUPLING	C	100	300	Each	
3	37226	Plug	PLUG, FUSIBLE: CASING MATERIAL: STEEL; CORE MATERIAL: STEEL; SIZE: DIA 17 X LG 20 MM; TEMPERATURE RATING: 160 DEG C; SIZE 18 MM DIA X 19.5 MM LG; FOR USE ON 650 SVN VOIGHT FLUID DRIVE COUPLING	C	200	200	Each	
4	625258	Hold Back	HOLDBACK: TYPE: ANTI RUN BACK; DIMENSIONS: ID 65 MM; MATERIAL: STEEL; RIZ 90-65 MM BORE G3; G2-COVERS; SPROCKET-2	C	12	2	Each	
5	649023	Element	ELEMENT: DIMENSIONS: ID 130 X OD 180 MM; MATERIAL: STAINLESS STEEL; TYPE: LOCKING; SPECIFICATION: EN9; REFERENCE NO: 1015-130X180; NON-SELF-CENTERING; SCREWS DIN912-8.8 M12 X 65; EN9 FORGED MATERIAL; HEAT TREATED TO CONDITION 'R'; TRANSMISSIBLE TORQUE: 33800NM; TRANSMISSIBLE THRUST: 520KN	C	72	2	Each	
6	28460	BE, Elevator Belt (680mm x 90m)	BELT, CONVEYOR: WIDTH: 680 MM; LENGTH: 90 M; CLASS: ST2000; PLY: 3 (BOTTOM X TOP); MATERIAL: KLEBER TRANSLEV; BOTTOM COVER THICKNESS: 3 MM; TOP COVER THICKNESS: 3 MM; TYPE: BUCKET ELEVATOR; OVERALL THICKNESS: 15 MM; DRAWING NO: 20.58/56935 REV 1; REFERENCE NO: LPMW21; BUCKET ELEVATOR BELT TO BE PUNCHED ACCORDING TO DRAWING NO:0.58/56935, TEMPERATURE 130 DEGREE. THE BELT MUST BE FULLY CABLED, NO CABLE FREE ZONES ALLOWED. THE BELT TO BE SUPPLIED WITH MATERIAL CERTIF	C	12	2	Each	

7	612507	BE, DE Pulley (90mm)	PULLEY, CONVEYOR: TYPE: DRIVE END; DRUM DIAMETER: 900 MM; DRUM WIDTH: 900 MM; MATERIAL: STEEL; SHAFT DIAMETER: 180 MM; SHAFT LENGTH: 1.745 M; FOR DHP BUCKET ELEVATOR; PLATE THICKNESS 16 MM; LAGGING TYPE: DIAMOND; LAGGING THICKNESS: 12 MM; PULLEY MASS INCLUDING BEARINGS: 1260 KG; PULLEY HUB TYPE: TURBINE; BEARING DIAMETER: 140 MM; SHAFT EXTENSION: ONE SIDE	C	12	2	Each	
8	37386	EP Shaft DE	SHAFT: TYPE: DRIVE STATION; LENGTH: 1.285 M; MATERIAL: STL; APPLICATION: PRECIPITATOR CONVEYOR; SPECIFICATION: BS 970 080M40; END STYLE 1: ROUND; END STYLE 2: ROUND; END 1 SIZE: 67 MM; END 2 SIZE: 92 MM; SUPPL P/N: AKCG-30049-81; DRAWING NO: UKZ- 10045-04-A REV 1; FOR PRECIPITATOR CONVEYOR 1 TO 8; TYPE: 490/290-142V-BT-1 50	C	48	8	Each	
9	37447	EP Shaft NDE	SHAFT: TYPE: DRIVE; LENGTH: 900 MM; MATERIAL: STL; APPLICATION: PRECIPITATOR CONVEYOR; END 1 SIZE: 60 MM; END 2 SIZE: 60 MM; DRAWING NO: UKZ-10045-04-J REV 1; REFERENCE NO: AKCG30051-01; FOR END STATION; FOR PRECIPITATOR CONVEYOR 1 TO 8; TYPE: 490/29	C	48	8	Each	
10	248724	Coupling ,RLC Gearbox - Drive Shaft	COUPLING, SHAFT HALF: TYPE: DRIVE GEAR; BORE: 28 +0.05-0.1 X 24 +0.05-0.1 MM; MATERIAL: STL; MANUF P/N: 28A; TWO COUPLINGS TO BE SUPPLIED; FOR DHP ETG 11-24 CONVEYORS; 4 MM DEEP X 8 MM WIDE KEY WAY; 2.75 MM DEEP X 8 MM WIDE KEY WAY; M6 GRUBSCREWS MUST BE INSERTED 180 DEG ON THE COUPLING ACROSS THE KEY WAYS IN THE	C	48	2	Each	
11	588397	NDE Pulley	PULLEY, CONVEYOR: TYPE: CROWN; DRUM DIAMETER: 900 MM; DRUM WIDTH: 745 MM; MATERIAL: MS; SHAFT DIAMETER: 110 X 60 X 60 MM; SHAFT LENGTH: 1.065 M; FOR DHP BUCKET ELEVATOR NON DRIVE END; TOP SURFACE: 24 X (25MM X 745MM) MILD STEEL BARS; DRUM SHELL THICKNESS: 16MM; SHAFT KEY WAY: LG 745MM X WD 28MM X DIA 7MM; SUPPLIER TO COLLECT THE SAMPLE FOR ACCURATE FABRICATION; THE PULLEY MUST BE SUPPLIED WITH THE MATERIAL	C	40	2	Each	

			CERTIFICATE & DRAWING; ITEMS WILL NOT BE ACCEPTED IF THE REQUESTED DELIVERABLES ARE NOT SUPPLIED					
12	612507	B/elevator pulley,DE	PULLEY, CONVEYOR: TYPE: DRIVE END; DRUM DIAMETER: 900 MM; DRUM WIDTH: 900 MM; MATERIAL: STEEL; SHAFT DIAMETER: 180 MM; SHAFT LENGTH: 1.745 M; FOR DHP BUCKET ELEVATOR; PLATE THICKNESS 16 MM; LAGGING TYPE: DIAMOND; LAGGING THICKNESS: 12 MM; PULLEY MASS INCLUDING BEARINGS: 1260 KG; PULLEY HUB TYPE: TURBINE; BEARING DIAMETER: 140 MM; SHAFT EXTENSION: ONE SIDE	C	12	2	Each	
13	37408	CC200, Shaft DE Ø 190mm	SHAFT: TYPE: DRIVE; LENGTH: 1.692 M; MATERIAL: STL; APPLICATION: SECOND COLLECTOR CONVEYOR; SPECIFICATION: BS 970; END STYLE 1: ROUND; END STYLE 2: ROUND; END 1 SIZE: 46 X 39 MM; END 2 SIZE: 46 X 39 MM; SUPPL P/N: AKCG30052-01; DRAWING NO: UKZ-10045-06-G REV 1; AKCG 30052-01 REV 0; FOR END STATION; FOR SECOND COLLECTOR CONVEYOR 10 AND 12; TYPE: 1300-450 TWIN 142V-BT-2 50/12	C	12	6	Each	
14	37402	CC100, Shaft Drive, 130x1613mm	SHAFT: TYPE: DRIVE STATION; LENGTH: 1.613 M; MATERIAL: STL; SUPPL P/N: AKCG30058-01; DRAWING NO: UKZ-10045-05-A REV 1; FOR FIRST COLLECTOR CONVEYOR 9 AND 11; TYPE: 640/450-142V-BT-2	C	12	2	Each	
15	37405	CC100, Shaft NDE 120x1040mm	SHAFT: TYPE: DRIVE; LENGTH: 1.04 M; MATERIAL: STL; SUPPL P/N: RNE-30010-06; DRAWING NO: UKZ-10045-05-G REV 1; FOR END STATION; FOR FIRST COLLECTOR CONVEYOR 9 AND 11; TYPE: 640/450-142V- BT-2 50/12 AND SECOND COLLECTOR CONVEYOR; SHORT SHAFT	C	16	2	Each	
16	37409	CC200, Shaft NDE	SHAFT: TYPE: DRIVE; LENGTH: 1.04 M; MATERIAL: STL; SUPPL P/N: RNE30010; DRAWING NO: UKZ-10045- 06-H REV 1; FOR END STATION; FOR SECOND COLLECTOR CONVEYOR 10 AND 12; TYPE: 1300/450 TWIN 142V- B	C	12	2	Each	
17	37408	BTC, DE Drive Shaft 120x2162mm,	SHAFT: TYPE: DRIVE; LENGTH: 1.692 M; MATERIAL: STL; APPLICATION: SECOND COLLECTOR CONVEYOR; SPECIFICATION: BS 970; END STYLE 1: ROUND; END STYLE 2: ROUND; END 1	C	6	1	Each	

			SIZE: 46 X 39 MM; END 2 SIZE: 46 X 39 MM; SUPPL P/N: AKCG30052-01; DRAWING NO: UKZ-10045-06-G REV 1; AKCG 30052-01 REV 0; FOR END STATION; FOR SECOND COLLECTOR CONVEYOR 10 AND 12; TYPE: 1300-450 TWIN 142V-BT-2 50/12					
18	37409	BTC, NDE Shaft $\varnothing$ 120mm,	SHAFT: TYPE: DRIVE; LENGTH: 1.04 M; MATERIAL: STL; SUPPL P/N: RNE30010; DRAWING NO: UKZ-10045-06-H REV 1; FOR END STATION; FOR SECOND COLLECTOR CONVEYOR 10 AND 12; TYPE: 1300/450 TWIN	C	6	1	Each	
19	69780	Coupling,3kW motor - Primary Drive Gearbox	SLEEVE, COUPLING: TYPE: GEAR; DIMENSIONS: ID 51.6 X OD 73 X WD 37 MM; MATERIAL: NYLON; ESCONYL DISC TYPE: 28A, DEPTH 3.2MM, WIDTH 16.5MM, TEETH 34	C	48	4	Each	
20	25426	BUSH:COUPLING;	BUSH: TYPE: COUPLING; INSIDE DIAMETER: 10 MM; OUTSIDE DIAMETER: 12 MM; LENGTH: 27.6 MM; MATERIAL: BRS RUBBER COATED; DRAWING NO: ESK 20.58/52760 REV 1; 20.58/52760 ESK REV 1; FOR PENCOFLEX PIN; RUBBER SHORE HARDNESS 80, OD 23MM, LENGTH 24.5M	C	48	8	Each	
21	250844	BE, Fluid Drive Coupling	COUPLING, SHAFT FLEXIBLE: TYPE: FLUID DRIVE; BORE DIAMETER: 50 MM; MATERIAL: ALUMINIUM; REFERENCE NO: HP 400; HYDRO FLOW; PLUG SIZE: 3/8 IN-19 TPI BSP TAPERED WITH 50 MM BORE SIZE)	C	12	6	Each	
22	756872	COMPRESSION SLEEVE	SLEEVE, COUPLING FLEXIBLE: TYPE: COMPRESSION SLEEVE; OUTSIDE DIAMETER: 24 MM; LENGTH: 30 MM; MATERIAL: RUBBER; MATERIAL GRADE: CHLOROPRENE POLYMERIZATE OR NITRILE RUBBER; BOLT HOLE QUANTITY: 1; BOLT CIRCLE DIAMETER: 10 MM; REFERENCE NO: RE-25-10; MODIFIED NATURAL RUBBER.	C	200	24	Each	
23	69780	EP Coupling	SLEEVE, COUPLING: TYPE: GEAR; DIMENSIONS: ID 51.6 X OD 73 X WD 37 MM; MATERIAL: NYLON; ESCONYL DISC TYPE: 28A, DEPTH 3.2MM, WIDTH 16.5MM, TEETH 34	C	48	8	Each	

24	248724	EP Coupling Set	COUPLING, SHAFT HALF: TYPE: DRIVE GEAR; BORE: 28 +0.05-0.1 X 24 +0.05-0.1 MM; MATERIAL: STL; MANUF P/N: 28A; TWO COUPLINGS TO BE SUPPLIED; FOR DHP ETG 11-24 CONVEYORS; 4 MM DEEP X 8 MM WIDE KEYWAY; 2.75 MM DEEP X 8 MM WIDE KEYWAY; M6 GRUBSCREWS MUST BE INSERTED 180 DEG ON THE COUPLING ACROSS THE KEYWAYS IN T	C	48	8	Each	
25	738123	C100 Rubber Coupling	COUPLING, SHAFT FLEXIBLE: TYPE: FLANGE FLEXIBLE PIN AND BUSH; TAPER LOCK SERIES: keyed, Hub A ID 110: Hub B ID 125 MM; BORE DIAMETER: 110 MM; TORQUE: 225 KW; MATERIAL: CAST IRON; SPEED:1460RPM	C2	48	8	Each	
26	38676	EP Spider Coupling	SPIDER, COUPLING: COUPLING TYPE: FLEXIBLE; MATERIAL: RUBBER; INSIDE DIAMETER: 114 MM; OUTSIDE DIAMETER: 220 MM; THICKNESS: 36 MM; SUPPL P/N: 230VKR; FOR USE ON 422 TV VOIGHT FLUID DRIVE COUPLING	C	72	12	Each	
27	586414	ESP conveyor main drive gearbox	GEARBOX: TYPE: IN-LINE HELICAL GEAR; RATIO: 6.3:1; SPEED: 1430/232.7 RPM; POWER: 3 KW; SHAFT SIZE: 40 MM; APPLICATION: DUST HANDLING PLANT; MANUF P/N: SICF26B6.3-U-B3-100L; GEAR UNIT C/W LANTERN & HIGH HALF SPEED COUPLING; ROTEX 24 (BORED TO D X 100LD FRAME); MOTOR END COUPLING TO BE SUPPLIED LOOSE; GEAR UNIT C/W & HIGH SPEED & LOW SPEED ALUMINIUM ADAPTOR RINGS; LOW SPEED ADAPTOR RING 300 DIA BY 500MM & HIGH SPEED ADAPTOR RING 250MM DIA BY 38MM; THE ADAPTOR RINGS TO BE FIXED TO THE GEAR UNIT; THE GEAR UNIT TO BE SUPPLIED WITH BULLS EYE SIGHT GLASS; PRECIP CONVEYORS	C	48	1	Each	
28	176808	ESP conveyor primary drive gearbox	GEARBOX: TYPE: REDUCER; RATIO: 50:076; SPEED: 1480/29.5 RPM; POWER: 55 KW; APPLICATION: DHP; REFERENCE NO: RDE33QKS CTN	C	48	4	Each	
29	176807	CC100, Drive Gearbox,	GEARBOX: TYPE: TRANSMISSION; RATIO: 180.87:1; SPEED: 1460/8.07 RPM; REFERENCE NO: RDE43ANBN	C	12	1	Each	
30	176806	CC200, Drive Gearbox	GEARBOX: TYPE: TRANSFER; RATIO: 22.36:1; SPEED: 1460/6/56 RPM; POWER: 27.5 KW; REFERENCE NO: RDF43ANBN; RDF4ANBN	C	12	2	Each	

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31	176808	BE, Drive Gearbox	GEARBOX: TYPE: REDUCER; RATIO: 50:076; SPEED: 1480/29.5 RPM; POWER: 55 KW; APPLICATION: DHP; REFERENCE NO: RDE33QKS CTN	C	12	2	Each	
32	176806	BTC, Drive Gearbox	GEARBOX: TYPE: TRANSFER; RATIO: 22.36:1; SPEED: 1460/6/56 RPM; POWER: 27.5 KW; REFERENCE NO: RDF43ANBN; RDF4ANBN	C	6	1	Each	