Eskom	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	6
		Effective Date	March 2023		
		Review Date	March 2026		

PLANT AREA: Matla power station outside plant TITLE: Supply and Delivery of Spares for Outside Plant Mechanical Bearings on an as and when required basis			
REF: MEA- 06949	Reference Rev No:0	MULTIDISCIPLINARY: No	Plant Level: All

COMPILED BY	*Name: Matimba Mabasa* *System Engineer*	Signature:	Date: 09/06/2026
APPROVED	*Name: Gavin Phelelo* *Line Manager*	Signature:	Date: 09/06/2026
APPROVED	*Name: Lindokuhle Ngobese* *Engineering Manager*	Signature:	Date: 10/06/2026
REVIEWED	*Name: Jabulani Mtsweni* *Quality Department*	Signature:	Date:
REVIEWED	*Name:* *Occupational Health and Safety*	Signature:	Date:
REVIEWED	*Name: Zodwa Zulu* *Environmental Department*	Signature:	Date: 12/06/2026
ACCEPTED	*Name:* *Outage Manager/Maintenance manager*	Signature:	Date:
ACCEPTED	*Name:* *AIA*	Signature:	Date

NB: Do not tamper with the template.

		• The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer: OMOP 4090 and 4402). • The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C: OMOP 4402) of designated area. • EMS file based on ISO14001 will be required.		
1.3	Quality Management	• The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work. • Contractors/executioner to adhere to QM 58 and OMOP4497 requirements • Number of NCR issued can affect your next tendering process. • The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA. • No procuring of outage items without the approval of scopes by quality • All outage scopes creep and scopes addition should be approved by quality • No contractor should be in the possession of scopes for execution without the scopes approved by quality • The contractor is subjected to quality auditing at any point in time during execution of scope	Hold point	Contractor
1.4	Inputs from other departments			
1.5	Commissioning reference			

DETAILED SCOPE

2	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
This scope of work is for the supply of bearings for Matla Power Station Outside Plant on an as and when required basis for a period of 5 years. The bearings may be used in, but not limited to Pumps (centrifugal, vertical, reciprocating), Turbines, Gearboxes, Fans, blowers, Conveyors and other rotating machinery.				
2.1	**Required Bearing Types**	The required bearings to be supplied are as per below: • Deep groove ball bearings • Angular contact ball bearings • Cylindrical roller bearings • Spherical roller bearings • Tapered roller bearings • Thrust bearings • Specialty or application-specific bearings The required bearing specifications and quantities over the contract duration are shown on the Bill of Material below.	Hold	Contractor

2.2	**Material**	• The Bearing rings and rolling elements must be of high-grade alloy steel or as per OEM design. • Dimensions, tolerances, load ratings, internal clearances, and material grades shall match OEM specifications. • Bearings shall be fully interchangeable with existing installed bearings.		
2.3	**Marking and Packaging**	• The bearings must be individual sealed packaged, and the package must be moisture resistant and shock proof. • Each package shall be clearly marked with the Manufacturer name, Bearing designation and part number, Heat/batch number and Manufacturing date.		
2.4	**Documentation**	The Vendor shall supply the following documentation: • Packing list • Certificate of Conformance • Material Certificates • Inspection and test report • Warranty certificate • All documents shall be submitted in hard copy and electronic format.		

2.5	**Warranty**	• Each Bearing must have minimum warranty of 2 years from date of delivery. • The Warranty shall cover manufacturing defects and material non-conformance. • Replacement or repair shall be at the supplier's cost.		
2.6	**After Sales Support**	The Vendor/Supplier shall provide: • Technical support during installation and commissioning (if required). • Failure analysis support in case of premature bearing failure • Ongoing technical consultation for spare optimization.		
2.7	**Quality Assurance and Control**	• Client or third-party inspection may be conducted upon request. • Supplier/Vendor shall operate under a certified Quality Management System (ISO 9001 or equivalent).		

2.8	General	• Client or third-party inspection may be conducted upon request.	Hold	Contractor

BILL OF MATERIAL

Item number	Specifications of Material/Spares/Equipment	Stock number	Required Quantity
1	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT17KGT17 KGT1; PULLEY BEARING; 1XSNL517 TRINNEER; 1X22217 EXQW33KC3 NACHI BEARING; 1XH317X ADAPTER SLEEVE TRINNER;2X FR150/12.5 LOCATING RING;1X G17 HALVES 2 SEAL; 1X ECU517 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755871	100
2	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT20KGT1; PULLEY BEARING; 1XSNL520 TRINNEER; 1X22220 EXQW33KC3 NACHI BEARING; 1XH320X ADAPTER SLEEVE TRINNER;2X FR180/12.5 LOCATING RING;1X G20 HALVES 2 SEAL; 1X ECU520 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755872	200
3	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; PULLEY BEARING; 1XSNL509 TRINNEER; 1X22209 EXQW33KC3 NACHI BEARING; 1XH309X ADAPTER SLEEVE TRINNER;2X FR85/3.5 LOCATING RING;1X G09 HALVES 2 SEAL; 1X ECU509 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755875	200
4	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT26 KGT1; PULLEY BEARING; 1XSNL526 TRINNEER; 1X22226 EXQW33KC3 NACHI BEARING; 1XH326X ADAPTER SLEEVE TRINNER;2X FR230/13.5 LOCATING RING;1X G26 HALVES 2 SEAL; 1X ECU526 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755879	100
5	BEARING: TYPE: SPHERICAL ROLLER BEARING; INSIDE DIAMETER: 170 MM; OUTSIDE DIAMETER: 280 MM; WIDTH: 88 MM; MANUF P/N: 23134EXQW33KC3	0754255	50
6	BEARING: TYPE: HOUSING SHAFT TURNING DEVICE; INSIDE DIAMETER: 56.5 MM; OUTSIDE DIAMETER: 205 MM; WIDTH: 85 MM; MATERIAL: CAST IRON; SERIES: SNL; MANUF P/N: SNL509 TRINNEER; CORROSION PROTECTION PAINT-IN ACCORDANCE WITH ISO 12944-2; CORROSIVELY CATEGORY C2; MOUNTING ARRANGMENT THROUGH SHAFT/SHAFT END; NUMBER OF BOLT HOLES FOR FASTENERS:2	0755442	150
7	: TYPE: SLEEVE; INSIDE DIAMETER: 100 MM; OUTSIDE DIAMETER: 145 MM; WIDTH: 77 MM; MANUF P/N: H322X TRINNEER; KM22 NUT AND MB22 WASHER	0755443	50
8	BEARING: TYPE: END COVER; INSIDE DIAMETER: 107 MM; OUTSIDE DIAMETER: 107 MM; WIDTH: 5; MANUF P/N: ASNH517; POLYPROPYLENE	0755444	150
9	BEARING: TYPE: SEAL AIR FAN FREE; INSIDE DIAMETER: 150 MM; OUTSIDE DIAMETER: 185 MM; WIDTH: 42 MM; MATERIAL: STEEL; MANUF P/N: TS34 TRINNEER; PRODUCT NET WEIGHT: 2.1KG	0755445	150
10	BEARING: TYPE: HOUSING SHAFT TURNING DEVICE; INSIDE DIAMETER: 147.5 MM; OUTSIDE DIAMETER: 410 MM; WIDTH: 175 MM; MATERIAL: CI; MANUF P/N: SNL522; CORROSION PROTECTION; PAINT IN ACCORDANCE WITH ISO 12944-2; CORROSIVELY CATEGORY C2; MOUNTING ARRANGEMENT; THROUGH SHAFT END; NUMBER OF BOLT HOLES FOR FASTENERS 2; PRODUCT NET WEIGHT	0755446	50

11	BEARING: TYPE: SEAL AIR FAN FREE; INSIDE DIAMETER: 75 MM; OUTSIDE DIAMETER: 106 MM; WIDTH: 15 MM; MATERIAL: NITRILE; MANUF P/N: TSNG517 TRINNEER; MATERIAL THERMOPLASTIC POLYESTER ELASTOMER	0755448	50
12	BEARING: TYPE: END COVER; INSIDE DIAMETER: 148.6 MM; OUTSIDE DIAMETER: 148.6 MM; WIDTH: 6 MM; MANUF P/N: ASNH520; POLYPROPYLENE	0755456	70
13	BEARING: TYPE: HOUSING SHAFT TURNING DEVICE; INSIDE DIAMETER: 167.5 MM; OUTSIDE DIAMETER: 445 MM; WIDTH: 190 MM; MATERIAL: CI; MANUF P/N: SNL526; CORROSION PROTECTION; PAINT IN ACCORDANCE WITH ISO 12944-2; CORROSIVELY CATEGORY C2; MOUNTING ARRANGEMENT; THROUGH SHAFT END; NUMBER OF BOLT HOLES FOR FASTENERS 2	0755457	90
14	BEARING: TYPE: END COVER; INSIDE DIAMETER: 65.4 MM; OUTSIDE DIAMETER: 65.4 MM; WIDTH: 5 MM; MANUF P/N: ASNH509; POLYPROPYLENE	0755465	100
15	BEARING: TYPE: SEAL AIR FAN FREE; INSIDE DIAMETER: 90 MM; OUTSIDE DIAMETER: 147.50 MM; WIDTH: 16 MM; MANUF P/N: TSNG520 TRINNEER; MATERIAL THERMOPLASTIC POLYESTER ELASTOMER	0755474	130
16	BEARING: TYPE: SLEEVE; INSIDE DIAMETER: 40 MM; OUTSIDE DIAMETER: 65 MM; WIDTH: 39 MM; MATERIAL: STEEL; MANUF P/N: H309 TRINNEER	0755476	90
17	BEARING: TYPE: END COVER; INSIDE DIAMETER: 178.6 MM; OUTSIDE DIAMETER: 178.6 MM; WIDTH: 6 MM; MATERIAL: POLYPROPYLENE; MANUF P/N: ASNH526 TRINNEER	0755477	80
18	BEARING: TYPE: SLEEVE; INSIDE DIAMETER: 75 MM; OUTSIDE DIAMETER: 110 MM; WIDTH: 63 MM; MATERIAL: STEEL; MANUF P/N: H317 TRINNEER; LOCK NUT KM17; LOCKING DEVICE MB17	0755483	100
19	BEARING: TYPE: SEAL AIR FAN FREE; INSIDE DIAMETER: 40 MM; OUTSIDE DIAMETER: 64.5 MM; WIDTH: 12.5 MM; MATERIAL: NITRILE; MANUF P/N: TSNG509 TRINNEER; MATERIAL: THERMOPLASTIC POLYESTER ELASTOMER	0755484	110
20	BEARING: TYPE: SLEEVE; INSIDE DIAMETER: 150 MM; OUTSIDE DIAMETER: 220 MM; WIDTH: 122 MM; MATERIAL: STEEL; MANUF P/N: H3134X TRINNEER; LOCK NUT KM 34; LOCKING DEVICE MB 34	0755485	100
21	BEARING: TYPE: SEAL AIR FAN FREE; INSIDE DIAMETER: 158.6 MM; OUTSIDE DIAMETER: 158.6 MM; WIDTH: 6 MM; MANUF P/N: ASNH522; POLYPROPYLENE	0755486	90
22	BEARING, ROLLER: TYPE: CYLINDRICAL; INSIDE DIAMETER: 41 MM; OUTSIDE DIAMETER: 80 MM; WIDTH: 18 MM; ROW: 1	0781873	100
24	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT20KGT1; PULLEY BEARING; 1XSNL520 TRINNEER; 1X22220 EXQW33KC3 NACHI BEARING; 1XH320X ADAPTER SLEEVE TRINNER;2X FR180/12.5 LOCATING RING;1X G20 HALVES 2 SEAL; 1X ECU520 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE	0755872	90
25	KIT: TYPE: ASSEMBLY; APPLICATION: CONVEYOR; PULLEY BEARING; 1XSNL509 TRINNEER; 1X22209 EXQW33KC3 NACHI BEARING; 1XH309X ADAPTER SLEEVE TRINNER;2X FR85/3.5 LOCATING RING;1X G09 HALVES 2 SEAL; 1X ECU509 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755875	120

26	KIT: TYPE ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT26 KGT1; PULLEY BEARING; 1XSNL526 TRINNEER; 1X22226 EXQW33KC3 NACHI BEARING; 1XH326X ADAPTER SLEEVE TRINNER;2X FR230/13.5 LOCATING RING;1X G26 HALVES 2 SEAL; 1X ECU526 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755879	80
27	BEARING: TYPE: SPHERICAL ROLLER BEARING; INSIDE DIAMETER: 170 MM; OUTSIDE DIAMETER: 280 MM; WIDTH: 88 MM; MANUF P/N: 23134EXQW33KC3	0754255	100
28	SET: TYPE: BEARING; APPLICATION: 20 SERIES CONVEYORS; QUANTITY: 1 TEST SET; COMPRISING: SPHERICAL ROLLER; SIZE RANGE: 518 MM; MATERIAL: MILD STEEL	0777880	150
29	SET: TYPE: BEARING; APPLICATION: 30 SERIES CONVEYORS; QUANTITY: 1 TEST SET; COMPRISING: SPHERICAL ROLLER; SIZE RANGE: 516 MM; MATERIAL: MILD STEEL	0777879	100
30	KIT: TYPE ASSEMBLY; APPLICATION: CONVEYOR; MANUF P/N: KIT20KGT1; PULLEY BEARING; 1XSNL520 TRINNEER; 1X22220 EXQW33KC3 NACHI BEARING; 1XH320X ADAPTER SLEEVE TRINNER;2X FR180/12.5 LOCATING RING;1X G20 HALVES 2 SEAL; 1X ECU520 END CAP TRINNER; 2X BLUE CSCHT200WR EP2 GREASE 400G	0755872	200
31	BEARING: TYPE: ANGULAR; INSIDE DIAMETER: 40 MM; OUTSIDE DIAMETER: 80 MM; WIDTH: 30.2 MM	0781573	100
32	BEARING: TYPE: ANGULAR; INSIDE DIAMETER: 60 MM; OUTSIDE DIAMETER: 130 MM; WIDTH: 31 MM	0781574	150
33	BUSH: TYPE: SELF ALIGNING; INSIDE DIAMETER: 80.2 MM; OUTSIDE DIAMETER: 107.78 -0.00 TO +0.02 MM; LENGTH: 45.2 MM; MATERIAL: STL ALLOY 107; APPLICATION: MILL PA INLET HOT AIR/FLUE GAS DAMPER; DRAWING NO: ESKOM 047/52673 REV 1; IN ACCORDANCE TO DRAWING AVAILABLE FROM BOILER PLANT ENGINEERING, MATERIAL CERTIFICATE REQUIRED FOR EACH BEARING DELIVERED, DIMENSIONAL CERTIFICATE REQUI RED FOR EACH BEARING DELIVERED	244045	1600
34	BUSH: TYPE: SELF ALIGNING; INSIDE DIAMETER: 100.2 MM; OUTSIDE DIAMETER: 139.59 -0.00 TO +0.03 MM; LENGTH: 57.7 MM; MATERIAL: STL ALLOY 107; APPLICATION: SEC AIR FD FAN/FLUE GAS DAMPER; CAT NO: 0.47/5 2673; MATERIAL DEVA METAL, IN ACCORDANCE TO DRAWING AVAILABLE FROM BOILER PLANT ENGINEERING, MATERIAL CERTIFICATE REQUIRED FOR EACH BEARING DELIVERED, DIMENSIONAL CERTIFICATE REQUIRED FOR EACH BEARING DELIVERED	244046	100

35	BUSH: TYPE: SELF ALIGNING; INSIDE DIAMETER: 55.2 MM; OUTSIDE DIAMETER: 75.72 -0.00 TO +0.03 MM; LENGTH: 31.7 MM; MATERIAL: DEVA METAL ALLOY 107; APPLICATION: MILL TEMPERING AIR DAMPER; DRAWING NO: ESKOM 047/52673 REV 1; IN ACCORDANCE TO DRAWING AVAILABLE FROM BOILER PLANT ENGINEERING, MATERIAL CERTIFICATE REQUIRED FROM EACH BEARING DELIVERED, DIMENSIONAL CERTIFICATE REQUIRED FOR EACH BEARING DELIVERED	244047	480
36	BEARING: TYPE: ROLLER 32307, CONE CUP; INSIDE DIAMETER: 50 MM; OUTSIDE DIAMETER: 110 MM; WIDTH: 27 MM	0781522	140

SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports			x	
Return to service data packages			x	
Maintenance Strategy with Rev number			x	
SAP defects (attach list as appendix)			x	
GHRMS (STEP) reports (Generation Heat Rate Management System)			x	
Online Condition Monitoring			x	
Pre-outage performance test results			x	
Post outage performance test results			x	
GPSS/ Plant Performance data on UCLF incurred			x	
OMS / IIRMS recommendations (Audits Reports)			x	
Risk controls (IRM system)			x	
Previous audits and reviews (e.g. ERAP)			x	
Engineering Change Requests (Projects)			x	
LOPP strategy reports			x	
URS			x	
Philosophy (Outage)			x	
Condition Monitoring Report			x	

VA/PHD Viewer trends			x	
Corrective Actions			x	
CARAB reports			x	
Statutory Requirements			x	
Grid code requirements			x	
Waivers and Exemptions			x	
Calibration requirements			x	
Previous Outage SOW variations			x	
Post Mortems Actions from previous outages			x	
Pre–Outage plant walks			x	
Risk based inspection (RBI) report			x	
Simulation, TOIs, OCN, SI			x	

COMMENTS

Compiled by: Matimba Mabasa

Eskom	Strategy	Engineering

Title: **Tender Technical Evaluation Strategy for Supply and Deliver Bearings to Matla Power Station**

Unique Identifier:	
Alternative Reference Number:	**N/A**
Area of Applicability:	**Engineering**
Documentation Type:	**Strategy**
Revision:	**1**
Total Pages:	**10**
Next Review Date:	**N/A**
Disclosure Classification:	**CONTROLLED DISCLOSURE**

Compiled by	Functional Responsibility	Authorised by
MATIMBA MABASA	**GAVIN PHELELO**	**LINDOKUHLE NGOBESE**
SYSTEMS ENGINEER	**AUXILIARY ENGINEERING MANAGER**	**ENGINEERING GROUP MANAGER**
Date: 10/06/2026	Date: 10/06/2026	Date: 10/06/2026