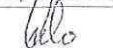


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PLANT AREA Matla Power Station					
TITLE: Water Treatment Plant Pumps Contract Scope of Work					
REF. MEA-06940		Reference Rev No 1		MULTIDISCIPLINARY: No	
				Plant Level: All	
COMPILED BY	Name: Isaack Marodi Systems Engineer	Signature		Date	20-10-2025
APPROVED	Name: Gavin Phelelo Line Manager	Signature		Date	28-10-2025
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature		Date	29/10/2025
REVIEWED	Name: Thabo Mallanyana Quality Department	Signature		Date	30/10/2025
REVIEWED	Name: MOSA MUPA Environmental Department	Signature		Date	30/10/2025
ACCEPTED	Name: Maintenance manager.	Signature		Date	30/10/2025

NB: Do not tamper with the template.

GENERAL

- Data books, reviews, reports and diagrams/drawings shall be submitted to Engineering after the completion of the work. Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.1	Safety	- All work is to be done in accordance with Matla plant procedures and safety regulations. (GGR 0992). - Matla power station induction must be done before any work commences. - Permit to work must be in place before any work commences. - Worker's register must be completed and daily risk assessment conducted before any work commences.	Eskom to witness.	Contractor
1.2	Environmental Management.	- All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental AUTHORISATION before commencement of work. - The contractor shall comply with all applicable legal and other requirements. - The polluter pays principle will be applied. - 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.	Eskom to witness.	Contractor
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.	Hold point	Contractor

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		- 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		
1.4	Inputs from other departments			
1.5	Commissioning reference			

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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This Pump Scope of Work was compiled for the Water Treatment Plant Pumps Contract (5 Years) Scope of Work.

2.	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIB LE PARTY
2.1	Strip and Repair the Water Treatment Plant Pumps Note: The contractor shall be responsible for collection and transportation of all the pumps that requires attention. - The contractor shall send Quality control plan and method statement to Eskom Engineering for approval prior to commencing with work. - All damages found must be recorded in a report with photographic evidence, which must be sent to Eskom Engineering for record keeping purposes. - The pumps shall be repaired and tested in accordance with the OEM specifications. - The contractor shall, when required, and at the direction of the Contract's Manager perform 24-hour call-back services, corrective repair services, alteration/addition services and vandalism/abuse repairs to all equipment listed in this SOW. - The contractor shall be available to respond to all outages, service call back requests and emergencies at Matla Power Station 24 hours a day 365 days a year for the term of the	WTP Pump Specifications. Refer to Appendix A for Pumps Specification	Hold Points	Contractor
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	contract. The contractor's response time shall be within four (4) hours from the receipt of the request for service all times. • The contractor to supply all consumables, O-rings, gaskets, bolts, nuts, washers, seals, wear rings flinger rings and bearings. • The contractor shall maintain a sufficient amount of replacement parts within his workshop necessary to maintain and repair the equipment in a safe and efficient operating condition. The replacement parts shall remain the contractor's sole property until installed on the equipment. In performing the indicated work, the contractor agrees to provide parts used by the manufacturer of the equipment for replacement or repair and to use lubricant obtained from and /or recommended by the manufacturer. Equivalent parts or lubricants may be used if approved in writing by the Auxiliary Plant Engineer. • The contractor is to provide a reasonable warranty on all pump repairs and this duration and terms and conditions must be indicated in the contractor repair method statement.			
2.2	Quality Control	Minimum required intervention points for Eskom Engineering and QC to witness (hold points): • Clearance recording before and after	Hold	Contractor

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		• Machining or welding that is done. • Grit blasting before coating commences. • Balancing of rotating assembly		
2.3	Refurbishment Prelim Scope Of Work The work shall include but not limited to: • Collection and Transportation • Stripping and reporting • Supply and Installation of Impellers • Supply and Installation of Wear Rings • Supply and Installation of the rotating assembly • Sand blasting • Supply and installation of bearings • Supply and Installation of Wear rings • Supply and installation of oil seals • Supply and Installation of grease nipples • Assemble the rotating assembly and balance as a unit (Contractor to supply balancing certificate)	ISO 1940-1:2003 Balance quality grade – G6.3	Hold	Contractor

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	- Flow/Performance testing (Test reports to be supplied with the pump, engineer to witness) - Assemble and spray the pump (<i>All pumps and parts thereof to be engraved with a unique serial number</i>) - Supply and installation of grease dispenser - Pump Services Site Support (Mechanical or Electrical) as and when required. - Performance Data label of the pump to be installed on the pump using an appropriate material to avoid rust. Minimum Data to include Serial Number, Pump Model Number, Head and Flow ad Best Efficiency Point (BEP). Pump shall be tested against the performance data stipulated.			
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SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports				

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Return to service data packages				
Maintenance Strategy with Rev number				
SAP defects (attach list as appendix)				
GHRMS (STEP) reports (Generation Heat Rate Management System)				
Online Condition Monitoring				
Pre-outage performance test results				
Post outage performance test results				
GPSS/ Plant Performance data on UCLF incurred				
OMS / IIRMS recommendations (Audits Reports)				
Risk controls (IRM system)				
Previous audits and reviews (e.g. ERAP)				
Engineering Change Requests (Projects)				
LOPP strategy reports				
URS				
Philosophy (Outage)				
Condition Monitoring Report				
VA/PHD Viewer trends				
Corrective Actions				
CARAB reports				

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Statutory Requirements				
Grid code requirements				
Waivers and Exemptions				
Calibration requirements				
Previous Outage SOW variations				
Post Mortems Actions from previous outages				
Pre-Outage plant walks				
Risk based inspection (RBI) report				
Simulation, TOIs, OON, SI				

COMMENTS

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APPENDIX A: PUMPS

3.1	Effluent pumps	• 130kW submersible pump • Liquid: 6% H2SO4 + Resin and Na OH • Head: 90 m • Volumetric Flow: 90.00 m3/h • Fluid Temperature: 20 °C • pH: as low 2 • Cable length: 20 m • Quantity: 3 (Installed) • Estimated Number of Repairs during Contract period: 36 • Number of new pumps to be supplied during contract duration: 10 • Stock number: 646823
3.2	Sludge Pumps	• Liquid: Sludge • Liquid type thick sludge • Head: 90 m • Volumetric Flow: 270.00 m3/h • Fluid Density: 1000 - 1200 kg/m3 • Sump Depth: ± 8 m • Fluid Temperature: 20 °C • pH: between 2 and 13 • Cable length: 20 m • Maximum allowable discharge pressure

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		pumping sludge: 10 Bar • Estimated Number of Repairs during Contract period:60 • Number of new pumps to be supplied during contract duration:12 • Stock Number: 569306
3.3	Acid Reuse Pumps	• Capacity: 10m3/h • Discharge pressure: 300kPa • Motor Speed:2900 rpm • Quantity: 3 (Installed) • Estimated Number of Repairs during Contract period: 30. • Number of new pumps to be supplied during contract duration: 12. • Stock Number: 653064
3.4	Dilution Pump	• PUMP: DILLUTION;334 MM;0.08 M3/HR;1475;75 • Flow: 500 m3/h • Head-38 m • Quantity: 6 (Installed) • Estimated Number of Repairs during Contract period: 24 • Number of new pumps to be supplied during contract duration:5 • Stock number 730430
3.5	Sewage pumps	• Head-30 to 65m

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		- Flow- 72.8 to 108 m³/h - Quantity: 11 (Installed) - Estimated Number of Repairs during Contract period: 35 - Number of new pumps to be supplied during contract duration: 10 - Stock number: 569721
3.6	Brine Pump	- Head-40m - Flow- 35 m³/h - Quantity: 12 (Installed) - Estimated Number of Repairs during Contract period: 45. - Number of new pumps to be supplied during contract duration: 20. - Stock number: 567226
3.7	Scour Pit Pumps	- Type- Centrifugal pump - Flow: 100l/s - Head- 30 m - Estimated number of repairs during Contract Term: 24 - Number of new pumps to be supplied during contract duration: 12. - Stock number: 567227
3.8	Scour Pit Pumps	- Type- Centrifugal pump - Flow: 30l/s

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		• Head- 30 m • Estimated number of repairs during Contract Term:35 • Number of new pumps to be supplied during contract duration: 12. • Stock number: 687405
3.9	Anion Pumps	• Vertical Centrifugal pump • Manufacturer- SAMCO • Head-58m • Flow- 220m3/h • Quantity: 3 (Installed) • Estimated number of repairs during Contract Term: 24 • Number of new pumps to be supplied during contract duration: 12. • Stock number: 177394
3.10	Varkie Pumps	• Submersible Pump • 7.5 KW • Estimated number of repairs during Contract Term: 100. • Number of new pumps to be supplied during contract duration: 20. • Stock number: 215009
3.11	Submersible Pumps	• Submersible Pump • 22 KW

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		- Estimated number of repairs during Contract Term: 45. - Number of new pumps to be supplied during contract duration: 14. - Stock number: 591836
3.12	Varkie Pump	- Submersible pump 5.5 KW - Estimated number of repairs during Contract Term: 60. - Number of new pumps to be supplied during contract duration: 15. - Stock number 591833
3.13	Acid Pump	- PUMP DIAPH: SANDWICH;25 X 25;900 L/HR - Estimated number of repairs during Contract Term: 45. - Number of new pumps to be supplied during contract duration: 15. - Stock number 638487
3.14	Acid Pump	- PUMP DIAPH: SULPHURIC ACID;25 X 25 MM;650 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 592956

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3.15	Acid Pump	- PUMP DIAPH: SANDWICH;25 X 25 MM;340 L/HR - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 638558
3.16	Ammonia Pump Dosing	- PUMP DIAPH: DOSING;1/2 X 1/2 IN;500 L/HR - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 647810
3.17	Ammonia Concentrated Pump	- PUMP DIAPH: DOSING;1/2 X 1/2 IN;80 L/HR - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 12. - Stock number 647809
3.18	Sulphur Offloading Pump	- PUMP CNTRFGL:24 M3/HR;20 M; SQ 65 MM;2000 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 177558
3.19	Sulphur Supply Pump	PUMP ASSY: DIAPHRAGM METERING

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		- Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 559286
3.20	Booster Pump	- PUMP CNTRFGL:32 M;400-1200 L/MIN;51-32 M - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 607701
3.21	CPP Caustic Pump	- PUMP: Caustic 250 MM;500 L/S;1480 RPM;16 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 567225
3.22	Cooling Tower CW Pump	- PUMP CNTRFGL:3 M;135 M3/HR;26 M;1450 RPM - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 555681
3.23	Cooling Tower Circulating Water Pump	- PUMP CNTRFGL:2 M;145 M3/HR;14 M;1450 RPM - Estimated number of repairs during Contract Term: 18. - Number of new pumps to be supplied during contract duration: 10.

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		Stock number 563467
3.24	Dam 1 Pump	- PUMP: SUBMERSIBLE;150 MM;45 L/S;1470 RPM - Estimated number of repairs during Contract Term: 18. - Number of new pumps to be supplied during contract duration: 10. - Stock number 568924
3.25	Seepage Pump	- PUMP: SUBMERSIBLE;100 MM;1.5 KL/MIN;2800 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 568923
3.26	SWR & OLD AWR	- CASING PUMP: SLUICE WATER RETURN;350 X 300 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 573083
3.27	DAF Pump	- PUMP: CENTRIFUGAL; DIA 250 X LG 680 MM;1.1 - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 709100

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3.28	RAS Pump	- PUMP CNTRFGL:4 M;80 M3/HR;30 M;2150 RPM - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 769558
3.29	Slurry Pump	- Pump CENTRIFUGAL; NPSH 17.74M CAPACITY 37.6 L/S TOTAL HEAD 74.93M 'SIZE 75X50MM; SPEED 3170 RPM; SINGLE STAGE; SPECIFICATION:3/2 CAH MOUNT : VERTICAL SHAFT DIAMETER 45MM - Estimated number of repairs during Contract Term: 60. - Number of new pumps to be supplied during contract duration: 20. - Stock number 0566061
3.30	Slurry Pump	- Pump CENTRIFUGAL; NPSH 10M; CAPACITY 553 L/S TOTAL HEAD 67M 'SIZE 12X10 INCH; SPEED 899 RPM; STAGE-1; DRIVER ELECTRIC MOTOR: MOUNT : HORIZONTAL: SHAFT DIAMETER 125MM - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 0591791

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3.31	Slurry Pump	- PUMP: TYPE: SLUDGE; SIZE 80 X 80 IN;CAPACITY 20L/S@ 10M; SPEED 1450RPM;RATING 1.4BAR ; DRIVER :ELECTRIC MOTOR; SPEC: SVA55 POTENTIAL:380V; APPLICATION: TRANSFER SLUDGE SLURRY - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number 0591833
3.32	Slurry Pump	- PUMP: TYPE: SUBMERSIBLE;SIZE 1320X578X543;CAPACITY 300M3/HR; SPEED 1450 RPM;RATING 22KW ; DRIVER :ELECTRIC MOTOR; SPEC: SVA55 POTENTIAL:400V ; CASING MATERIAL :STAINLESS STEEL; SELF AGITATING AUTO DRIVEN - Estimated number of repairs during Contract Term: 24. - Number of new pumps to be supplied during contract duration: 10. - Stock number:0687405
3.33	Seal Water Pump	- PUMP CNTRFGL:2.5;4 L/S;337.5 M;65 X 50;9 - Number of new pumps to be supplied during contract duration: 15 - Estimated number of repairs during Contract Term: 30 - Stock number 555684

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3.34	Eaton Pump	- Hydraulic single piston Pump - Charge pressure ;160-400 psi (11 -28 bars) - Control flow +/-12.5cis @200 psi supply - Estimated number of repairs during Contract Term: 45 - Number of new pumps to be supplied during contract duration: 15 - Stock number: 37653
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