

	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
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		Review Date	October 2027		

PLANT AREA: Matla Power Station			
TITLE: <i>Fluid Drive Supply and Refurbishment Contract (5 Years) Scope of Work</i>			
REF: MEA-07040	Reference Rev No:1	MULTIDISCIPLINARY: No	Plant Level: All
COMPILED BY		Signature:	Date:
APPROVED		Signature:	Date:
APPROVED		Signature:	Date:
REVIEWED		Signature:	Date:
REVIEWED		Signature:	Date:
ACCEPTED		Signature:	Date:

NB: Do not tamper with the template.

GENERAL

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- 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.

	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

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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			

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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The purpose of this tender is to appoint a suitably qualified and experienced contractor for the supply, refurbishment, testing, commissioning, and delivery of fluid drives used in industrial rotating equipment. The contractor shall provide all labour, materials, replacement components, equipment, tools, technical expertise, quality assurance, and documentation necessary to restore the fluid drives to original equipment manufacturer (OEM) performance specifications. The contract duration will be 5 years.

2.	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2.1	Fluid Drive Supply	- Contractor is required to supply New Fluid Drives. - All supplied units shall be manufactured to internationally accepted engineering standards and shall be fully compatible with the existing equipment. - The supplied fluid drives shall include all necessary accessories such as couplings, seals, bearings, gaskets, fasteners, lubrication components, and mounting hardware where applicable. - Each unit shall be supplied complete with technical	Hold	Contractor

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		manuals, maintenance instructions, performance curves, material certificates, and warranty documentation. The contractor will be responsible for delivering new and refurbished fluid drives at Matla Power Station.		
2.2	Fluid Drive Refurbishment The works are inclusive but not limited to the following: - Pre-refurbishment inspection, operating test, isolation, removal and transport to and from the approved facility. - Complete dismantling, industrial cleaning and dimensional inspection of casing, shafts, journals, bores, fits, impellers, scoop tube, bearings and housings. - Inspection for cracking, erosion, corrosion, distortion, overheating and mechanical damage, including NDT of critical components where required. - Replacement of all bearings, seals, O-rings, gaskets, locking devices and mandatory service items. - Repair or replacement of additional damaged components only after written Employer approval.	- The contractor will be responsible for collecting the used fluid drives from Matla Power Station to their workshop. - The contractor shall perform a comprehensive inspection to determine the Fluid Drives overall condition. - A detailed inspection report shall be submitted to the Employer, identifying all defects, recommended repairs, replacement parts required, estimated costs, and	Hold	Contractor
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	• Inspection and testing of the scoop-control mechanism; cleaning of oil passages and cooling circuits; dynamic balancing where required. • Reassembly to OEM tolerances and torques; leak/pressure testing; no-load testing; installation; laser alignment; oil filling; commissioning and loaded testing. • Submission of a complete refurbishment dossier and return-to-service certificate.	expected turnaround time before refurbishment commences. • The contractor shall refurbish all repairable components in accordance with OEM specifications and accepted engineering practices. Refurbishment activities shall include machining, polishing, grinding, metal spraying, welding repairs where approved, balancing of rotating assemblies, restoration of damaged surfaces, replacement of worn shafts, repair of impellers, restoration of housing fits, and correction of alignment issues These components include bearings, oil seals, O-rings, gaskets, wear rings, retaining rings, fasteners, bushes, keys,		
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		locking devices,. Components that cannot be economically repaired shall be replaced with new OEM or Employer-approved equivalent components. All consumable and wear components shall be replaced during refurbishment unless otherwise instructed by the Employer. These components include bearings, oil seals, O-rings, gaskets, wear rings, retaining rings, fasteners, bushes, keys, locking devices, filters, and lubrication components. Replacement components shall be new, of high quality, and fully traceable to recognised manufacturers.		
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	Service of the SCR20 Fluid Drive •	• The contractor shall service the 3 x Fluid Drive as per the schedule highlighted in Table 1 and activities highlighted on Table 2 Oil filtration and oil management • Record the equipment identity, operating hours, oil quantity and oil condition before filtration. • Inspect for water, sludge, metallic particles, discolouration and abnormal odour. • Filter with suitable equipment, prevent contamination and continue until the required cleanliness is achieved. • Top up only with the approved OEM oil; different oil types or grades shall not be mixed. • Record oil added and dispose of contaminated oil and filter elements in	Hold	Contractor
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		accordance with site environmental requirements. • Submit an oil-filtration service report after each intervention Vibration monitoring Vibration measurements shall be completed every three months and before and after major maintenance or refurbishment. Readings shall be taken at the motor drive-end and non-drive-end bearings, fluid drive input and output bearing positions, intermediate shaft bearings and accessible driven-equipment bearings. • Overall vibration velocity in mm/s RMS, plus acceleration and displacement where applicable. • Horizontal, vertical and axial readings, with operating speed and load. • Bearing and oil temperatures and frequency spectra for abnormal readings.		
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		- Trending against previous readings, defect diagnosis and recommended corrective action. - Assessment against OEM limits and the applicable requirements of ISO 20816. Precision alignment - Alignment shall be performed annually; after installation, reinstallation or refurbishment; after replacement or disturbance of a motor, fluid drive, intermediate shaft or driven equipment; following baseplate movement; or when condition monitoring indicates misalignment. - The Contractor shall use calibrated laser-alignment equipment and record initial and final readings. Alignment shall cover applicable motors, compressors, fans, pumps, intermediate shafts, couplings, pulleys and belt-drive arrangements. Soft foot, pipe strain, baseplate condition and thermal growth shall be considered. Final tolerances		
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		shall comply with the OEM requirements or approved plant standard.		
2.3	Testing	- Following refurbishment, each fluid drive shall be reassembled by qualified personnel using calibrated tools and approved assembly procedures. - Each refurbished or newly supplied fluid drive shall undergo comprehensive testing before delivery. Testing shall include dimensional verification, rotational checks, vibration analysis, oil leakage inspection, temperature monitoring, performance testing, and functional verification under simulated operating conditions. Test results shall	Hold	Contractor

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		demonstrate compliance with OEM performance specifications. Where required, the contractor shall provide qualified technical personnel to assist with installation, alignment, commissioning, and performance verification of the refurbished or newly supplied fluid drives at the Matla Power Station. Technical support shall include troubleshooting, operational adjustments, and operator guidance during commissioning.		
	Breakdown and condition-based maintenance	The Contractor shall provide breakdown and condition-based maintenance when instructed. Triggers include excessive vibration or temperature, loss of output speed, scoop actuator failure, leakage,		

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		abnormal noise, contaminated oil, cooler blockage, bearing deterioration, belt or pulley failure, misalignment or reduced performance. The Contractor shall diagnose the failure, identify the root cause and submit a repair recommendation and quotation where work is not covered by the scheduled rate.		
2.4	Documentation	The contractor shall provide a comprehensive refurbishment report for every fluid drive. The report shall include the original condition assessment, photographs before and after refurbishment, measurements, replaced components, machining records, balancing certificates, pressure test results where applicable, performance test results,	Hold	Contractor
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		quality inspection reports, and recommendations for future maintenance.		
2.5	Warranty	The contractor shall provide a minimum warranty period of twelve (12) months from the date of commissioning or eighteen (18) months from delivery, whichever occurs first. During the warranty period, the contractor shall repair or replace any defective workmanship or materials at no additional cost to the Employer.	Hold	Contractor
2.6	Deliverables	At the completion of each refurbishment, the contractor shall provide: - Fully refurbished or newly supplied fluid drive. - Inspection/condition assessment report. - Refurbishment report.	Hold	Contractor

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		• Material and replacement parts list. • Dynamic balancing certificate. • Performance and functional test certificates. • Quality control documentation. • Warranty certificate. • Operation and maintenance recommendations. • Delivery and inspection records.		

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Table 1-Service Intervals for SCR20 Fluid Drive

Service category	Interval or trigger
Routine inspection	Monthly
Oil filtration	Every 30 calendar days
Minor service	Every 3 months
Intermediate service	Every 6 months
Major service	Every 12 months
Complete refurbishment	Every 24 months of service
Condition-based maintenance	When triggered by abnormal condition or performance
Breakdown support	As and when instructed by the Employer
Precision alignment	Annually and whenever the drive train is disturbed

Table 2-Maintenance activity

Maintenance activity	Monthly	3-monthly	6-monthly	12-monthly	24-monthly	Technical requirement / acceptance criterion
Visually inspect safety guards, motor, fluid drive, intermediate shaft, foundations, fasteners and general drive condition.	✓	✓	✓	✓	✓	No damaged or loose guards, abnormal leakage, corrosion, cracking, looseness or deterioration.
Inspect fluid coupling for oil leakage, overheating, abnormal noise and physical damage.	✓	✓	✓	✓	✓	Record defects and operating observations.

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Filter the fluid coupling oil.	✓					Perform at intervals not exceeding 30 calendar days. Record oil quantity and condition before and after filtration.
Check and record fluid coupling oil level or filling condition.	✓	✓	✓	✓	✓	Oil quantity shall comply with OEM filling requirements.
Inspect drive belts for cracking, glazing, wear, contamination and damage.	✓	✓	✓	✓	✓	Replace defective belts after Employer approval unless included in the scheduled service price.
Measure and adjust belt tension.		✓	✓	✓	✓	Comply with belt manufacturer requirements and the approved plant procedure.
Inspect pulley condition and alignment.		✓	✓	✓	✓	Pulleys shall be free from excessive wear, damage and misalignment.
Function-test the scoop speed-control actuator and linkages.		✓	✓	✓	✓	Smooth operation through full range, without sticking, excessive backlash or leakage.
Check and record output speed.		✓	✓	✓	✓	Output speed adjustable from 650 r/min to 1 440 r/min.
Capture vibration readings on the complete drive train.		✓	✓	✓	✓	Measure horizontal, vertical and axial vibration at each accessible bearing position.
Check bearing and oil operating temperatures.		✓	✓	✓	✓	Compare with baseline readings and OEM limits.
Inspect cooling-water circuit for leakage, restriction and deterioration.		✓	✓	✓	✓	Circuit correctly connected, unrestricted and free from visible leakage.
Verify cooling-water flow rate.			✓	✓	✓	Minimum 2 m³/h unless the OEM specifies a higher flow.
Open, inspect and clean the water side of the oil cooler.			✓	✓	✓	Remove scale, debris and blockages; record condition before and after cleaning.

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Inspect coupling oil for contamination, discolouration, degradation, metallic particles and water ingress.		✓	✓	✓	✓	Take a laboratory sample when deterioration or contamination is suspected.
Open and inspect intermediate shaft bearings; measure and record clearances.				✓	✓	Target clearance: 0.05 mm, subject to confirmation against OEM tolerances.
Check foundation bolts, coupling fasteners, bearing fasteners and structural supports.			✓	✓	✓	Tighten to approved torque and record loose or damaged items.
Conduct a complete operational run test.			✓	✓	✓	Record input/output speed, temperatures, vibration, oil condition, water flow and actuator position.
Perform precision alignment of the complete drive train.				✓	✓	Also required whenever any drive-train component is removed, disturbed, replaced or refurbished.
Submit a detailed condition-assessment report.	✓	✓	✓	✓	✓	Include findings, measurements, defects, photographs, corrective work and recommendations.
Completely refurbish the SCR20 Size 4 fluid coupling.					✓	Every 24 months or earlier when indicated by condition monitoring.

BILL OF MATERIAL

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Quantity of new Fluid drives to be supplied over contract period.	Quantity of Fluid drives to be refurbished
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					over contract period.
1	Voith Turbo fluid drive 366	DRIVE, FLUID: TYPE: COUPLING; INSIDE DIAMETER 1: 72 MM; INSIDE DIAMETER 2: 118 MM; MANUF P/N: 366TVG; REFERENCE NO: 20101188610; VOITH TURBO FLUID DRIVE.	750633	45	30
2	Voith turbo fluid drive size 20	DRIVE, FLUID: TYPE: PUMP; INSIDE DIAMETER 1: 60 MM; INSIDE DIAMETER 2: 100 MM; OUTSIDE DIAMETER: 692 MM; MODEL NO: 5CR24R-SIZE 20; REFERENCE NO: 243764BRC1002655; USED ON SLURRY PUMP	555687	45	30
3	Voith Turbo fluid drive 422	COUPLING, SHAFT: TYPE: FLUID DRIVE; MATERIAL: ALUMINIUM; SUPPL P/N: 422TVB; FOR USE AS CONVEYOR DRIVE, EACH TV TO INCORPORATE TORQUE LIMITING DELAY FEED CHAMBER WHICH SERVES TO FACILITATE AN EXTENDED TIME DELAYED TORQUE RISE, INCLUDING FIRST OIL FILLING, INPUT COUPLING BORED AND KEYED TO SUIT MOTOR SHAFT, OUTPUT HUB BORED AND KEYED TO SUIT GEARBOX INPUT SHAFT AND TWO FUSIBLE PLUGS	25333	45	30
4	Voith Turbo fluid drive 487	COUPLING, SHAFT HALF: TYPE: FLEXIBLE DRIVE; BORE: 106 MM; OUTSIDE DIAMETER: 580 MM; LENGTH: 350 MM; MATERIAL: ALUMINIUM; MODEL NO: 487TV; FOR USE AS CONVEYOR DRIVE; EACH TV COUPLING TO	25334	45	30

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		INCORPORATE TORQUE LIMITING DELAY FEED CHAMBER WHICH SERVES TO FACILITATE AND EXTENDED TIME DELAYED TORQUE RISE, INCLUDING FIRST OIL FILLING, INPUT COUPLING BORED AND KEYED TO SUIT MOTOR SHAFT, OUTPUT HUB BORED AND KEYED TO SUIT GEARBOX INPUT SHAFT AND TWO FUSIBLE PLUGS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			
5	Fluidrive Variable Speed Coupling	Voith SCR24R Size 20	555687	9	9

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SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports				
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				

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Philosophy (Outage)				
Condition Monitoring Report				
VA/PHD Viewer trends				
Corrective Actions				
CARAB reports				
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				

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