	<b>MATLA POWER STATION</b>  <b>SCOPE OF WORK</b>	Template Identifier	240-43921898	Rev	6
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<b>PLANT AREA: MATLA POWERSTATION</b>				
<b>TITLE: Condition Monitoring Service 5 Years Contract</b>				
REF: MEP - 051322		Reference Rev No:	MULTIDISCIPLINARY: No	Plant Level: 1
COMPILED BY	Name: Zanele Phungula Snr Advisor Engineering	Signature:	Date: 20/01/2022	
APPROVED	Name: Brenda Moeng Line Manager	Signature:	Date: 20-01-2022	
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature:	Date: 22-01/2022	
REVIEWED	Name: Dorah Mkhonto Quality Department	Signature:	Date: 2022/02/01	
REVIEWED	Name: Lindokuhle Ngobese Environmental Department	Signature:	Date: 22/01/2022	
ACCEPTED	Name: N/A Outage Manager	Signature:	Date:	
ACCEPTED	Name: N/A AIA	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	<ul style="list-style-type: none"> <li>• All work is to be done in accordance with Matla plant procedures and safety regulations (GGR 0992)</li> <li>• Matla power station induction must be done before any work commences</li> <li>• Permit to work must be in place before any work commences</li> <li>• Worker's register must be completed and daily risk assessment conducted before any work commences</li> </ul>	Eskom to witness	Contractor
1 2	Environmental Management	<ul style="list-style-type: none"> <li>• All activities listed in the National Environmental Act 107 of 1998, EIA Regulation 982,983,984 &amp; 985(2014), must have <b>AUTHORISATION</b> before commencement of work</li> <li>• The contractor shall comply with all applicable legal and other requirements</li> <li>• The polluter pays principle will be applied</li> <li>• The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (OMOP 4090)</li> </ul>	Eskom to witness	Contractor

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		<ul style="list-style-type: none"> <li>The last payment will be processed based on the status of the last housekeeping check sheet (Annexure G OMOP 4018) of designated area EMS file based on ISO14001 will be required</li> </ul>		
13	Quality Management	<ul style="list-style-type: none"> <li>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</li> <li>Contractors/executioner to adhere to QM 58 and OMOP4497 requirements</li> <li>Number of NCR issued can affect your next tendering process</li> <li>The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA</li> <li>No procuring of outage items without the approval of scopes by quality</li> <li>All outage scopes creep and scopes addition should be approved by quality</li> <li>No contractor should be in the possession of scopes for execution without the scopes approved by quality</li> <li>The contractor is subjected to quality auditing at any point in time during execution of scope</li> </ul>	Hold point	Contractor
14	Inputs from other departments	N/A		
15	Commissioning reference	N/A		

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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DETAILED SCOPE


	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
<b>2.</b>	<b><i>Condition Monitoring Service</i></b>			
2 1	Perform Vibration Testing & Analysis (Annexure A)	Standard 36-1095	Report	Contractor
2 2	Collect oil samples & Oil analysis (Tribology Annexure C)	Standard 36-53	Report	Contractor
2 3	Ultrasound Testing/Thickness Test Pipe Measurement (Annexure D)		Report	Contractor
2 4	Perform Ultrasonic/ Infrared Thermography on electrical components and mechanical components (Annexure B)	Standard 36-511	Report	Contractor
2 5	Shaft Laser Alignment		Report	Contractor
2 6	Operational Deflection Shape Analysis		Report	Contractor
2 7	Video Amplification		Report	Contractor
2 8	Data Base Setup to be done on CSI software	CSI Software	Report	Contractor
2 9	Work package (planned maintenance) Annexure E			

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#### BILL OF MATERIAL


	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
	N/A				
	N/A				
	N/A				

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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	
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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, OON, SI			X	

COMMENTS


Compiled by: Zanele Phungula

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