

Document Identifier	14593	Rev	7
Effective Date	October 2024		
Review Date	October 2027		

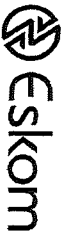
PLANT AREA: Matla Power Station

TITLE: Scope of Work for Supply and Delivery of Maull ME 4012 turbine control and protection system spares

REF: MEC-05924	Reference Rev No:1	MULTIDISCIPLINARY: No	Plant Level: All
COMPILED BY	Name: Kgabo Moloto Engineer in Training	Signature:	Date: 01/08/2025
APPROVED	Name: Katlego Mangope Line Manager	Signature:	Date: 01/08/2025
APPROVED	Name: Group Manager L Nyabeke	Signature:	Date: 01/08/2025
REVIEWED	Name: B. Mesthincage Quality Department	Signature:	Date: 04.08.2025
REVIEWED	Name: Occupational Health and Safety	Signature:	Date:
REVIEWED	Name: ECHWA Zimu Environmental Department	Signature:	Date: 04/08/2025
ACCEPTED	Name: Outage Manager/Maintenance manager Name: AIA	Signature: Signature:	Date: 04/08/2025 Date

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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.

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.1	Occupational Health and Safety	<ul style="list-style-type: none">• Health and safety file should be approved by Safety risk management department prior to any work commences on site• All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations. (240-150642762).• Matla power station SHEQ induction must be done before access to site can be granted• The contractor should ensure that all employees have acquired the required competency for the task they are performing.• The contractor to ensure compliance to updated legal requirements and other requirements.	Eskom to witness.	Contractor

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1.2	Environmental Management.	<ul style="list-style-type: none"> BUY QUIET: All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance to OHSWA noise exposure limits and ultimately reduce the risk of noise induced hearing loss. 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	<ul style="list-style-type: none"> 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. 	Hold point	Contractor

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		<ul style="list-style-type: none"> 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			

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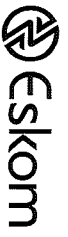


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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2.1	Supply and Delivery of Maueil ME 4012 Equipment listed below on the bill of material	Bulk supply and delivery of Maueil ME 4012 turbine control and protection system spare parts, as listed in the bill material below, in the specified quantities. The TCS equipment shall be packaged and handled properly according to the OEM and industry best practices.	Eskom	Contractor

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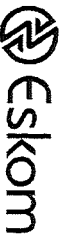
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BILL OF MATERIAL

No.	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Module	Analogue input module	0639 252	AE16V 00DF	29
2	Module	Control module for actuators with redundancy	0254 485	AEAA8 01CF	8
3	Module	Digital in-/output module	0639 255	DEAIN 01AF	25
4	Module	Binary Isolating Module	0254 482	DP08T 01AF	3
5	Module	Pulse/frequency input module	0639 256	IE2FZ 21AF	7
6	Module	SUB-NET termination module	0239767	SNMOD 00AV	2
7	Module	Multi-functional processor module	0639 258	UMFPR 60HF	17
8	Module	Power supply buffering module	0245 171	XVERP 01BS	8
9	Module	Contacto r module	0218 498	LSN 24 V	9
10	Module	Overspeed protection	0553 226	DW02	6
11	Module	Interface module RS422/485	0218 495	SPCMD 10FF	6
12	Module	Contact scanning input module	0639 263	K16IN 01AF	7
13	Module	Multi-functional processor module	0553 177	UMFPR 11DF	3
14	Module	Control module for actuators	0178812	SR02 Modules	9

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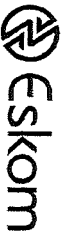
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SCOPE COMPILATION REFERENCES

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 / IRMS recommendations (Audits Reports)			X	
Risk controls (IRM system)			X	

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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, OON, SI				X	

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