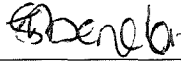
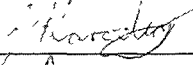




	<p>REPORT</p> <p>SCOPE OF WORK</p>	Document Identifier	14593	Rev	7
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PLANT AREA: Condenser Taprogge Cleaning System and Cooling Tower Nozzles			
TITLE: Condenser Taprogge Cleaning Balls and Cooling Tower Nozzles Supply and Delivery for 5 years Contract Scope of Work			
REF: MET-054139		Reference Rev No:0	MULTIDISCIPLINARY No
		Plant Level: All	
COMPILED BY	Name: Thandeka Mkhonza Systems Engineer/End User	Signature 	Date 2025/01/21
APPROVED	Name: Zain Karodia Line Manager	Signature 	Date 21/01/2024
APPROVED	Name: Lindo Ngobese Group Manager	Signature 	Date 2025/01/21
REVIEWED	Name: Johan Lourens Quality Department	Signature 	Date 2025/02/04
REVIEWED	Name: Occupational Health and Safety	Signature	Date
REVIEWED	Name: MOSA CHIPA Environmental Department	Signature 	Date 29/01/2025
ACCEPTED	Name: Outage Manager/Maintenance manager	Signature	Date
ACCEPTED	Name: AIA	Signature	Date

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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. BUY QUIET: All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance 	Eskom to witness.	Contractor

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		to OHSA noise exposure limits and ultimately reduce the risk of noise induced hearing loss.		
1.2	Environmental Management.	<ul style="list-style-type: none"> 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. The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA. 	Hold point	Contractor

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		<ul style="list-style-type: none"> 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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#	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
	The scope of work includes: <ul style="list-style-type: none"> ➤ Supply and delivering of taprogge cleaning balls to be used to clean main and BFPT condenser tubes for the period of 5 years ➤ Supply and delivering of North and South cooling tower Nozzles for the period of 5 years 		Hold	Contractor
1.	Taprogge Balls (Stock number 159657) Supply and deliver taprogge cleaning balls as and when required	Taprogge Balls Specification. Type: Normal Make: Sponge Shape: Round Dimensions: 24mm Category: 24-P150-3 Ball diameter field of tolerance = 24 – 25 mm Hardness degree (Elasticity) = Medium Quantity per month for 6 units :57600 Quantity per year for 6 units:691200	Hold	Contractor

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		Quantity for the 5-year period for 6 units =3456000		
2.	Taprogge Balls (Stock number 159672) Supply and deliver taprogge cleaning balls as and when required	Taprogge Balls Specification. Type: Low Sinking Make: Sponge Shape: Round Dimensions: 24mm Category: 24-P130-3 Stock number :159672 Quantity per month for 6 units :28800 Quantity per year for 6 units:345600 Quantity for the 5-year period for 6 units =1728000	Hold	Contractor
3.	Taprogge Balls (Stock number 159655) Supply and deliver taprogge cleaning balls as and when required	Taprogge Balls Specification. Type: Abrasive Dimensions: 24mm Stock number: 159655 Specification: Type: Normal Make: Sponge	Hold	Contractor
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		Shape: Round Dimensions: 24mm Category: 24-P150-3 Ball diameter field of tolerance = 24 – 25 mm Hardness degree (Elasticity) = Medium Quantity per month for 6 units :28800 Quantity per year for 6 units:345600 Quantity for the 5-year period for 6 units =1728000		
4.	South Cooling Tower Nozzles (Stock number 61069) Supply and deliver of cooling tower nozzles as and when required	Cooling Tower Nozzles (1-3) South Side Nozzle to come as complete nozzle with two removable nozzles and replaceable splash plate nozzles supporting ring Size OD=25mm; Lenth140mm Type: Up Spraying Quantity per year for 3 cooling towers=4200 Quantity for the 5 years for 3 cooling towers=21000	Hold	Contractor
5.	North Cooling Tower Nozzles (Stock number 591877) Supply and deliver taprogge cooling tower nozzles as and when required	Cooling Tower (4-6) Nozzles North Side Type: Down Spraying Nozzle to come as complete nozzle with two removable nozzles and replaceable splash plate nozzles supporting ring Size OD=24mm Quantity per year for 3 cooling towers=6000 Quantity for the 5 years for 3 cooling towers=30000	Hold	Contractor

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BILL OF MATERIAL

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1.	Taprogge Balls	Normal balls	159657		3456000
2.	Taprogge Balls	Low Sinking balls	159672		1728000
3.	Taprogge Balls	Abrasive balls	159655		1728000
4.	Cooling Tower Nozzles (North)	Down Sprayer	591877		21000
5.	Cooling Tower Nozzles (South)	Up Sprayer	61069		30000
6.					
7.					
8.					

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9.					
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			
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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		

COMMENTS

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ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
1	

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