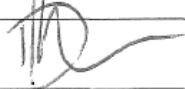
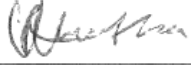
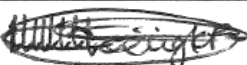


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PLANT AREA: Matla Power Station Water Treatment Plant			
TITLE: Demin vessel Sinert floor repairs or replacement (Cation 2, and Strong Base 1, 2 and 3 and weak base 2) and strong base 1 and 2 laterals repairs and cleaning			
REF: MEP-051632	Reference Rev No:1	MULTIDISCIPLINARY: No	Plant Level: All
COMPILED BY	Name: YATISH RAMKALAWAN Systems Engineer/End User	Signature: 	Date: 25/06/2026
APPROVED	Name: BRENDA MOENG Line Manager	Signature: 	Date: 25-06-2026
APPROVED	Name: LK Ngobex Group Manager	Signature: 	Date: 30/06/2026
REVIEWED	Name: Bonginkosi Motha Quality Department	Signature: 	Date: 01/07/2026
REVIEWED	Name: Robert Mntshu Occupational Health and Safety	Signature: 	Date: 01/07/2026
REVIEWED	Name: Bethuel Moeng Environmental Department	Signature: 	Date: 01/07/2026
ACCEPTED	Name: Outage Manager/Maintenance manager	Signature:	Date:
ACCEPTED	Name: AIA	Signature:	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	• 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.	- 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. - 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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		- 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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NO	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1	Deloading of resin from vessels			Chemical Services
2	Isolate vessel and PTW			Chemical Services and MMD
3	Erect Scaffolding			Eskom
4	Open vessel top and bottom manholes and remove bottom production outlet pipe			MMD
5	Clean up resin from vessel floors			Chemical Services/Ops support
6	Inspection of vessel floors on Cation 2, and Strong bases 1, 2 and 3 and weak base 2		H	Contractor

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7	Cation Vessel Floor Make provision for both Complete Sinert floor REPLACEMENT AND RECASTING and for floor RING REPAIR (decision will be based on inspecti Complete floor recasting to include removal and breaking up of existing floor, complete floor rubber lining (if required based on inspection), and for supply and replacement of cation vessel floor laterals	Laterals as per drawings 0.47/6164 Rev 1 and 0.47/6166 sheet 1 and 2 Cation floor approximately 3.5m ³ as per attached drawing Contractor to provide method statements, QCPs and product and safety data sheets for all materials to be used for new floors or for floor repairs Clearance between vessel and floor to be less than 0.1mm		Contractor
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8	Cation Vessel Floor Rubber lining Complete stripping and re-rubber lining of the vessel floor including abrasive grit blasting (if required based on rubber conditions). Patch repairs (if required based on inspection) will be conducted based on the rate per square metre quoted. Hand grinding to be done for vessel patch repairs Rubber lining to be inspected (Visual and spark testing)	6mm Pre cured butyl rubber and 2-3mm on brackets and supports (40-70 IRHD) Inert silica free mineral grit to be used if abrasive blasting is required. Surface must be free of any oil, grease, rust, mill scale, debris Rubber lining to comply with SANS 1198 and 1201 and Eskom standard 240-101712128 - Standard for the Internal Corrosion Protection of Water Systems, Chemical Tanks and Vessels and Associated Piping with Linings	H	Contractor
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9	Strong Base Vessel 1, 2 and 3 and Weak base 2 Floors Contractor to quote for both Sinert floor RING REPAIR and for floor RING SEAL (decision will be based on inspection) Complete floor recasting to include removal and breaking up of existing floor, complete floor rubber lining (if required based on inspection), and for supply and replacement of cation vessel floor laterals	Contractor to provide method statements, QCPs and product and safety data sheets for all materials to be used for new floors or for floor repairs Clearance between vessel and floor to be less than 0.1mm Vessel diameters approximately 2.8m		Contractor
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10	Strong base 1 mid collector regenerant laterals Removal and cleaning of strong base 1 mid collector laterals due to the laterals being blocked with fines. Provision to also be made for repairs of all the laterals which will include removal and replacement of the laterals wrapping and mesh. Laterals to be reinstalled thereafter.	For lateral wrapping replacement: Materials resistant to the acidity and the basicity as described on the operation conditions above Typically first layer of netlyon diamond material of about 5mm cross apertures followed by a woven polyprop mesh of 0.25mm. Resin size mean diameter = 0.30mm. The ends of the laterals must be wrapped with heat shrink ensuring that they do not cover the holes of the laterals. As per drawing 0.47/6174 rev 2, 0.47/6175 rev 2 sht 1, 0.47/6175 rev 2 sht 2		Contractor
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11	Strong base 2 mid collector regenerant laterals These laterals are leaking resin during regeneration and rinsing. Removal and inspection of laterals and replacement of the wrapping and mesh on the damaged laterals.	As per drawing 0.47/6174 rev 2, 0.47/6175 rev 2 sht 1, 0.47/6175 rev 2 sht 2 Materials resistant to the acidity and the basicity as described on the operation conditions above Typically first layer of netlon diamond material of about 5mm cross apertures followed by a woven polyprop mesh of 0.25mm. Resin size mean diameter = 0.30mm. The ends of the laterals must be wrapped with heat shrink ensuring that they do not cover the holes of the laterals.		Contractor
12	Allow repaired or replaced floor to cure			

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13	Inspection and testing of cation and strong base floors	Air leak test Filler gauge measurement Rubber hammer and loose grit test Drainage of effluent	H	Contractor and Engineering
14	Closing and boxing up of vessel manholes and outlet pipe, loading of resin and commissioning			MMD and Chemical Services

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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	Cation vessel Sinert floor removal and replacement including laterals	Laterals as per drawings 0.47/6164 Rev 1 and 0.47/6166 sheet 1 and 2 Cation floor approximately 3.5m ³ as per attached drawing Clearance between vessel and floor to be less than 0.1mm			1
2	Cation vessel floor ring repair	Cation floor approximately 3.5m ³ as per attached drawing Clearance between vessel and floor to be less than 0.1mm			1
3	Strong base 1, 2 and 3 and weak base 2 floor ring seal	Clearance between vessel and floor to be less than 0.1mm Vessel diameters approximately 2.8m			4

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4	Strong base 1, 2 and 3 and weak base 2 floor ring repair	Clearance between vessel and floor to be less than 0.1mm Vessel diameter approximately 2.8m			4
5	Strong Base 1 laterals removal, cleaning and reinstallation	All laterals			18 laterals
6	Strong base 1 laterals removal, repairs (mesh and wrapping replacement) and reinstallation	All laterals. As per drawing 0.47/6174 rev 2, 0.47/6175 rev 2 sht 1, 0.47/6175 rev 2 sht 2 Materials resistant to the acidity and the basicity as described on the operation conditions above Typically first layer of netlon diamond material of about 5mm cross apertures followed by a woven polyprop mesh of 0.25mm. Resin size mean diameter = 0.30mm. The ends of the laterals must be wrapped with heat shrink ensuring that they do not cover the holes of the laterals.			11metre (Quote per metre of laterals)

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7	Strong base 2 laterals removal, repairs (mesh and wrapping replacement) and reinstallation	Damaged laterals based on inspection. . As per drawing 0.47/6174 rev 2, 0.47/6175 rev 2 sht 1, 0.47/6175 rev 2 sht 2 Materials resistant to the acidity and the basicity as described on the operation conditions above Typically first layer of netlon diamond material of about 5mm cross apertures followed by a woven polyprop mesh of 0.25mm. Resin size mean diameter = 0.30mm. The ends of the laterals must be wrapped with heat shrink ensuring that they do not cover the holes of the laterals.			11metre (Quote per metre of laterals)
8	Cation floor blasting and rubberlining	6mm Pre cured butyl rubber and 2-3mm on brackets and supports (40-70 IRHD). Silica free inert mineral blasting grit			15m ²

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				

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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

ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc			
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