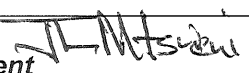
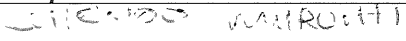


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PLANT AREA: Water Treatment Plant TITLE: Demin Train Resin Replacement					
REF: MEP-051313		Reference Rev No: 0		MULTIDISCIPLINARY: No	Plant Level: 1
COMPILED BY	Name: Seboni Solomon Sikwa Process Engineer	Signature: 	Date: 04/06/2024		
APPROVED	Name: Brenda Moeng Process Engineering Manager	Signature: 	Date: 11-06-2024		
APPROVED	Name: Lindo Ngobese Group Manager	Signature: 	Date: 20/06/2024		
REVIEWED	Name:  Quality Department	Signature: 	Date: 01/07/24		
REVIEWED	Name: Quality Department	Signature: 	Date:		
REVIEWED	Name:  Environmental Department	Signature: 	Date: 20/06/2024		
REVIEWED	Name: Nthabiseng Selowa Chemical Services Motha	Signature: 	Date: 2024/06/14		
ACCEPTED	Name: Fannie Nkabinde Project Manager	Signature:	Date		

NB: Do not tamper with the template.

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	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	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.	Eskom to witness.	Contractor

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		EMS file based on ISO14001 will be required.		
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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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
2	PRELIMINARY SCOPE OF WORK			
	N/A			Eskom/Contractor
3	RESIN SPECS AND SCOPE			
	1. Supply and delivery of the ion exchange resin for Matla's demineralisation plant.	1. All the resins must be sourced from a single manufacture for resins compatibility across the train (for the entire Demin plant).	W	Contractor

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	2. The manufacture must be able to supply and deliver required quantities. Site references where the proposed resins used in similar applications must be included for Matla's references. 3. Mixed bed resin must have the following polymer matrix type: a. Cation resins: a styrene gellular strongly acid resin b. Anion resins: a styrene macroporous strongly basic type 1 resin 4. Cation and anion resins used in demineralisation mixed bed must be designed to operate as pairs, to ensure good resin separation and minimise resin cross contamination. 5. Mixed bed total exchange capacity and form: i. Cation resins must be supplied in hydrogen form with capacity greater than 2.0 eq/l. ii. Anion resins must be supplied in the hydroxyl/ chloride form with a capacity of greater than 1.0 eq/l. iii. Both cation and anion resins supplied must have perfect beads exceeding 99% and broken beads must be less than 1%. iv. The uniformity coefficient for both cation and anion resin must be less 1.2. 90% of the resin beads must be in the range of 0.60 – 0.70 mm. v. Required Cation quantity = 10 000L vi. Required Anion quantity = 10 000L		
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		6. The supplier is required to provide a computer simulation output that demonstrates the performance of the selected resin. The selection of the resin shall be based on the evaluation of the computer simulation output provided by the supplier. 7. <u>Strong Base Anion</u> total exchange capacity and form: i. The SBA resins must be supplied granular form in the hydroxyl/chloride form with a capacity of greater than 1.3 eq/l (Cl⁻ form). ii. The WBA anion resins supplied must have perfect beads exceeding 99% and broken beads must be less than 1%. iii. The uniformity coefficient of the resin must be less 1,1. Ninety (90) % of the resin beads must be in the range of 0.50 – 0.60 mm. iv. Required Quantity = 32 000L 8. <u>Weak Base Anion</u> total exchange capacity and form: i. Anion resins must be supplied in the freebase form with a capacity of ≥1.3 eq/l. ii. The WBA anion resins supplied must have perfect beads exceeding 99% and broken beads must be less than 1.1%. iii. The uniformity coefficient of the resin must be less 1.1. Ninety (90) % or more of the resin beads must be in the range of 0.50 – 0.60 mm iv. Required Quantity = 28 000L		
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	9. <u>Weak Acid Cation</u> total exchange capacity and form: i. The WAC resins must be supplied in hydrogen form with capacity greater than 4.7 eq/l. ii. It must have perfect beads exceeding 99% and broken beads must be less than 1%. iii. The uniformity coefficient for both cation and anion resin must be less 1.2. Ninety (90) % of the resin beads must be in the range of 0.40 – 0.50 mm. iv. Quantity Required = 16 000L 10. <u>Strong Acid Cation</u> total exchange capacity and form: i. Cation resins must be supplied in hydrogen form with capacity ≥ 2.0 eq/l. ii. The resins supplied must have perfect beads exceeding 99% and broken beads must be $\leq 1\%$. iii. The uniformity coefficient for both cation and anion resin must be less 1.1. Ninety (90) % of the resin beads must be in the range of 0.60 – 0.70 mm. iv. Required Quantity = 44 000L 11. <u>Inert</u> Resin form i. The inert resin must be supplies in granular form of polyethylene matrix ii. Specific gravity of ± 0.96			
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		iii. Particles size: between 2.5 and 4mm iv. Works with Counter-current / Air hold-down v. Temperature Range: 5 – 80°C vi. Required Quantity =8 000L 12. The supplier shall use the information provided in Table 1-3 for the simulations. Simulated results must be shown in a separate Table as per the used software incorporating the provided data. 13. Table 5 has been provided for alternative feed water usage and the Simulated results must be shown in a separate Table as per the used software incorporating the provided data. 14. This simulation will not be used in the technical evaluation process.		
	2. Delivery and handling and documentation	1. All ion exchange resin products must be delivered in an open loaded truck to allow accessibility by the forklift during offloading. The contractor shall provide the forklift for the offloading of the resins 2. Resin delivery to be done 12 weeks after order placement. 3. All ion exchange resin products must be supplied on pallet, wrapped 1000L of 25 litres bags 4. The following documents shall be submitted to the Matla personnel upon arrival at the power station: i. Delivery note, which must include the order number, the name of the power station (Matla Power Station) and the power station address.		

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		ii. Ion exchange resin certificate of analysis and batch numbers for traceability during troubleshooting. iii. The Material Safety Data Sheets (MSDS) and Technical Data Sheet (TDS) must be provided per product.		
	3. Lists of services	List of Technical services included in the price which shall include but not limited to the following: a. A yearly and a random (or as when required) full resins analysis, b. Resin kinetics with photographic report c. Specialized resin/analysis by the resin expert especially during trouble shooting d. Training and optimization for a duration of the resin life.		

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Chemistry and plant data to be used for the simulations and calculations

TABLE 1 – Feed Water Inlet Quality water (Usutu water)

DATA			
Average Water Analysis		Units	
	Ca	ppm as CaCO ₃	12.23
	Mg	ppm as CaCO ₃	10.23
	Na	ppm	4.82
	K	ppm	2.08
	Cl	ppm	6.865
	SO ₄	ppm	7.801
	NO ₃	ppm	0.250
	HCO ₃ or M-Alkalinity	ppm as CaCO ₃	17.24
	SiO ₂	ppm	4.0
	pH	Value	7.49
	Conductivity	μS/cm	81.38
	Organics	mg/L as KMnO ₄	3.1
	Organics (TOC)	ppm	2.94
Temperature		°C	19.0
Flow Rate	Gross	m ³ /h	200

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BLE 2: Cation Data for Computer Simulation

DATA			
		Units	
Regen Type	*CFR, RFR or T&B		T&B
Resin Type			WAC
			SAC
Stratified bed		Y/N	N
Resin Volume per vessel	Cation (WAC)	L	4000
	Cation (SAC)	L	10500
	Inert	L	None
Column Diameter		mm	3000
Current Cation Regeneration	H ₂ SO ₄ Concentration (used)	%	Top 1 st Injection = 0.8 @ 25 m ³ /hr Bottom 1 st Injection: = 4.8 @ 15 m ³ /hr Top 2 nd Injection = 1.5 @ 19 m ³ /hr Bottom 2 nd injection = 4.8 @ 15 m ³ /hr
	H ₂ SO ₄ Concentration (storage)	%	98
	H ₂ SO ₄ Price	R	
Cation Outlet Expected Quality at 12ML	pH		~3
	Sodium	ppb	150 (RFR)
Degasser		Y/N	Y
Number of Cation Vessels		Number	1

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TABLE 3: Anion Data for Computer Simulation

DATA			
		Units	
Regen Type	*CFR, RFR or T&B		RFR and CFR
Resin Type			SBA and WBA
Stratified bed		Y/N	N
Resin Volume per vessel	Anion (WBA)	L	6500
	Anion (SBA)	L	8000
	Inert	L	5000
Column Diameter	WBA	mm	2800
	SBA	mm	2800
Current Anion Regeneration	NaOH Concentration (used)	%	5
	NaOH Concentration (storage)	%	45
	NaOH		Caustic 1st Injection = 5% @ 7.2 m³/hr to SB vessel and waste Caustic 2nd Injection = 5% @ 7.2 m³/hr to WB vessel
	NaOH Price	R	
Anion Outlet Expected Quality at 12ML	Conductivity (WBA)	µS/cm	<25
	Conductivity (SBA)	µS/cm	<5 (RFR)
	Silica	ppb	<50 (RFR)
Number of Anion Vessels		Number	2
Expected Throughput of the Demin Train		m ³	12000



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TABLE 4: Mixed Bed Data for Computer Simulation

DATA			
		Units	
Resin Type			SAC
			SBA
Resin Volume per vessel	Cation (SAC)	L	2500
	Anion (SBA)	L	2500
Column Diameter	SAC/SBA	mm	2800
Regeneration	H ₂ SO ₄ Concentration (used)	%	6 @7.2 m ³ /hr
	NaOH Concentration (used)	%	5 @7.2 m ³ /hr
Number of Mixed Bed Vessels		Number	1
Mixed Bed Outlet Expected Quality at 100ML	Turbidity	NTU	≤0.2
	Conductivity at 25°C	μS/cm	≤0.08
	Silica as SiO ₂	ppb	≤10
	Sodium as Na	ppb	≤2
	TOC as C	ppb	≤250
	Chloride as Cl ⁻	ppb	≤2
	Sulphate as SO ₄ ²⁻	ppb	≤2
Expected Throughput of the Demin Train		m ³	100000

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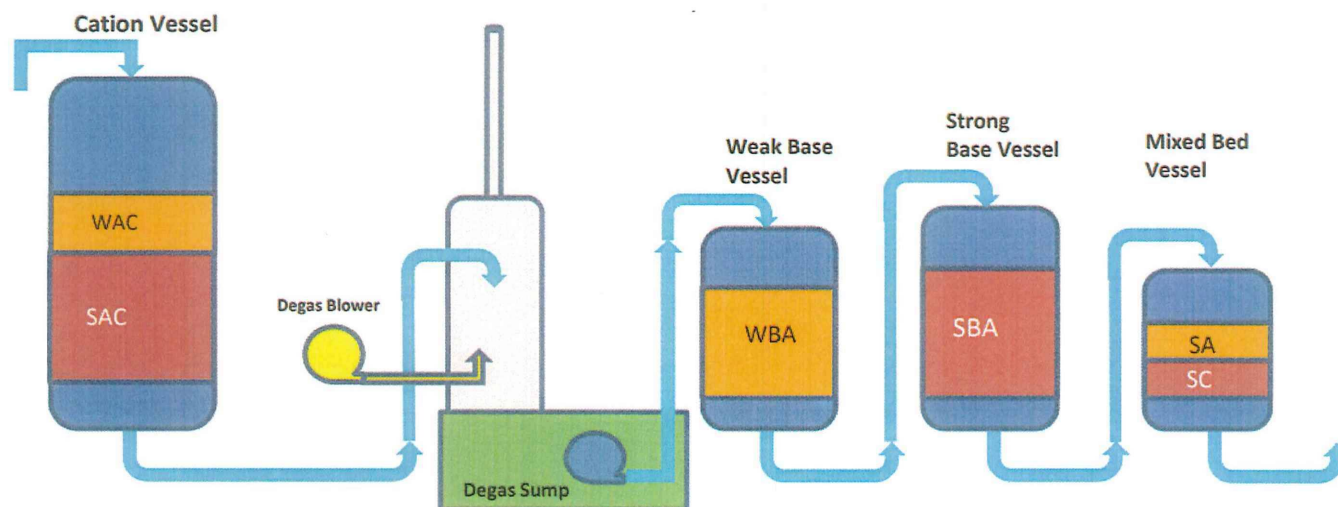
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TABLE 5 – Optional Feed Water Quality (Vaal water)

DATA			
Average Water Analysis		Units	
	Ca	ppm as CaCO ₃	39.75
	Mg	ppm as CaCO ₃	42.78
	Na	ppm	19.91
	K	ppm	4.20
	Cl	ppm	12.210
	SO ₄	ppm	42.236
	NO ₃	ppm	1.550
	HCO ₃ or M-Alkalinity	ppm as CaCO ₃	65.36
	SiO ₂	ppm	33
	pH	Value	8.02
	Conductivity	µS/cm	265.3
	Organics	mg/L as KMnO ₄	2.3
	Organics (TOC)	ppm	7.58
Temperature		°C	Ambient (5 to 30 °C)
Flow Rate	Gross	m ³ /h	220
	Net	m ³ /h	205
Number of lines		Number	3

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Appendix A – Demin Plant configuration and resin loading



1. Cation vessel is loaded with stratified bed of about 10500L SAC resins and 4000L WAC resin. Regeneration is co-flow on the WAC and counter flow on the SAC.
2. The degasifier unit is fitted or installed for the mechanical removal of CO₂ and thereby reducing the pH of the water.
3. Weak base vessel loads about 6500L resin and the regeneration is co-flow
4. Strong base vessel loads about 8000L resin and the regeneration is counter flow
5. Mixed bed loads about 2300L Strong acid and 2500L Strong Anion resin. Regeneration is co-flow on the anion resin and counter flow on the cation resin
6. The train end of run for the cation and anion is 12ML and 100ML for the mixed bed.

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APPENDIX B:

BILL OF MATERIAL

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity (L)
1	Demin Resin Mixed bed cation resin	As per section 2, (2, 3 and 4)	157280	N/A	10 000
2	Demin Resin Mixed bed anion resin	As per section 2, (2, 3 and 4)	501211	N/A	10 000
3	Demin train Strong base resin	As per section 2, (6)	198167	N/A	32 000
4	Demin train Weak base resin	As per section 2, (7)	223251	N/A	28 000
5	Demin Weak Acid Cation resin	As per section 2, (8)	256013	N/A	16 000
6	Demin Strong Acid Cation resin	As per section 2, (9)	256013	N/A	44 000
7	Demin train inert resin	As per section 2, (10)	575335	N/A	8 000

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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			
Condition Monitoring Report			X	

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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: Sikwa SS

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