



MATLA POWER STATION
SCOPE OF WORK

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

PLANT AREA: WATER TREATMENT PLANT

TITLE: Matla Outside Plant Piping Supply 5 Year Contract SOW.

REF: MEA- 07000	Reference Rev No: 0	MULTIDISCIPLINARY: No	Plant Level: 3
COMPILED BY	Name: <i>Isaack Maredi</i> System Engineer	Signature:	Date: 09/06/2026
APPROVED	Name: <i>Gavin Phelelo</i> Auxiliary Line Manager	Signature:	Date: <i>09/06/2026</i>
APPROVED	Name: <i>Lindokuhle Ngobese</i> Group Manager	Signature:	Date: <i>12/06/2026</i>
REVIEWED	Name: <i>Barerg Montshioagae</i> Quality Department	Signature:	Date: <i>12/06/2026</i>
REVIEWED	Name: <i>Zodwa Zimu</i> Environmental Department	Signature:	Date: <i>12/06/2026</i>
RECEIVED	Name: Maintenance	Signature:	Date:

NB: Do not tamper with the template.

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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	Safety	<ul style="list-style-type: none"> • All work is to be done in accordance with Matla plant procedures and safety regulations. (GGR 0992). • Matla power station induction must be done before any work commences. • Permit to work must be in place before any work commences. • Worker's register must be completed and daily risk assessment conducted before any work commences. 	Eskom to witness.	Contractor
1.2	Environmental Management.	<ul style="list-style-type: none"> • All activities listed in the National Environmental Act 107 of 1998, EIA Regulation 982,983,984 & 985(2014), must have 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). 	Eskom to witness.	Contractor

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		<ul style="list-style-type: none"> 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. 		
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. 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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DETAILED SCOPE

2	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
The purpose of this Scope of Work is to define the requirements for the supply and delivery of pipework and associated materials by the Supplier to Matla Power Station.				
2.1	Scope Overview	The Supplier shall be responsible for the complete supply of pipework materials in accordance with the Contract, including but not limited to: <ul style="list-style-type: none"> • Pipes • Flanges • Bends • Delivery to the designated site 	Hold Point	Contractor

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2.2	Applicable Standards and Codes	All materials and works shall comply with the latest editions of the applicable standards, including but not limited to: <ul style="list-style-type: none"> • ASME, ASTM, API • ISO, EN, DIN • BS Standards • Project specifications and drawings • Local statutory and regulatory requirements 	Hold Point	Contractor
2.3	Pipes Supply	The Supplier shall provide pipes as specified in the Bill of Material below, including: <ul style="list-style-type: none"> • Carbon Steel • Stainless Steel 	Hold Point	Contractor

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2.4	Manufacturing and Quality Requirements	<ul style="list-style-type: none">All materials shall be new and free from defects.Manufacturing shall be carried out under an approved Quality Management System (ISO 9001 or equivalent).Full traceability of materials shall be maintained from raw material to final product.	Hold Point	Contractor
2.5	Transportation	<ul style="list-style-type: none">Materials must be packed to prevent damage during handling and transport.Pipe ends must be protected with end caps.Materials must be preserved against corrosion.Each item must be clearly marked with size, material grade, heat number, and purchase order reference.The deliveries must be made to Matla Power Station.The delivered material must be defect free.	Hold Point	Contractor

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2.6	Documentation	<p>The contractor must submit the documents below with every delivery in the form of a data book (hard copy and electronic:</p> <ul style="list-style-type: none">• Mill Test Certificates (EN 10204 3.1 or as specified)• Inspection and test reports• Packing lists• Certificates of conformity	Hold Point	Contractor
2.7	Material Certificate	<ul style="list-style-type: none">• All New Carbon Steel Rubber Lined Pipeline to be supplied with their material certificate which should be submitted to Engineering.• Contractor is responsible to verify the dimensions on site before procuring of any material.	Hold	Contractor
2.8	Housekeeping and General	<ul style="list-style-type: none">• Contractor must issue new plant drawings to Eskom upon completion of the work. The drawings must indicate the installed new Pipework.• No equipment shall be left unattended during the works.	Hold	Contractor

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		<ul style="list-style-type: none">Contractor must issue new plant drawings to Eskom upon completion of the work. The drawings must indicate the installed new Pipework.No equipment shall be left unattended during the works.		
2.9	Coating	<ul style="list-style-type: none">All pipes must be corrosion protected according to the Eskom standard: Standard for the External Corrosion Protection of Plant, Equipment and Associated Piping with Coatings (240-106365693) & Standard for the Internal Corrosion Protection of Water Systems, Chemical Tanks and Vessels and Associated Piping with Linings (240-101712128).	Hold	Contractor

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BILL OF MATERIAL

Item Number	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Required Quantity
1.	90NB 16MO3	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 90NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 5.74 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; RATING: 60 BAR; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	697585	200
2.	100NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 100NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 6.02 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; RATING: 50 BAR; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	697584	250

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3.	125NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 125NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 6.55 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; RATING: 50 BAR; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	697582	200
4.	150NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 7.11 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	607581	200
5.	200NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 200NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 8.18 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; MAXIMUM	697590	250

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		OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B		
6.	250NB 16MO3 pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 250NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 9.27 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	732992	250
7.	300NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 300NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 9.52 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B	732990	200
8.	350NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 350NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 11.13 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 35	697579	200

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		BAR; SCHEDULE: STD; MAXIMUM OPERATING TEMP: 250 DEG C; GRADE: A106 GRADE B		
9.	400NB 16MO3 Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 400NB MM; MATERIAL: 16MO3; LENGTH: 6 M; WALL THICKNESS: 9.52 MM; CONSTRUCTION: SEAMLESS; END TYPE: PLAIN; MAXIMUM OPERATING PRESSURE: 350 BAR; SCHEDULE: STD; RATING: 89 BAR; MAXIMUM OPERATING TEMP: 350 DEG C; GRADE: A106 GRADE B	0697578	250
10.	OD150MM Mild steel Pipe	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150 MM; MATERIAL: MILD STEEL; LENGTH: 6 M; WALL THICKNESS: 9 MM; END TYPE: FLANGE; MAXIMUM OPERATING PRESSURE: 550 KPA; MAXIMUM OPERATING TEMP: 120 DEG C	0607826	200
11.	25NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 25NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 3.38 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	902579	200

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12.	50NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 50NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 3.91 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	458666	200
13.	80NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 80NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 5.49 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	64112	250
14.	90NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 90NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 5.72 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	75221	200
15.	100NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 100NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 6.02 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	83243	250
16.	150NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150NB MM; MATERIAL: SS 316;	76436	200

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		LENGTH: 6 M; WALL THICKNESS: 7.11 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS		
17.	200NB Stainless Steel 316 pipes	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 200NB MM; MATERIAL: SS 316; LENGTH: 6 M; WALL THICKNESS: 8.18 MM; END TYPE: PLAIN; CONSTRUCTION: SEAMLESS	63523	250
18.	Flange: 250NB mild steel	FLANGE, PIPE: TYPE: WELDED; BORE: 275 MM; PIPE SIZE: 250 MM; MATERIAL: MS; RATING: 25 BAR; STYLE: FLAT; PCD: 370 MM; BOLT HOLES: 12; BOLT HOLE SIZE: 26 MM; FLANGE DIAMETER: 425 MM; FLANGE THICKNESS 30 MM	0619363	250
19.	Flange: 200NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 200 MM; MATERIAL: MS; STYLE: FLAT;	0619367	250
20.	Flange: 150NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 150 MM; MATERIAL: MS; STYLE: FLAT;	0619364	200

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21.	Flange: 100NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 100 MM; MATERIAL: MS; STYLE: FLAT;	0619362	500
22.	Flange: 80NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 80 MM; MATERIAL: MS; STYLE: FLAT;	0619361	500
23.	Flange: 65NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 65 MM; MATERIAL: MS; STYLE: FLAT;	0619367	200
24.	Flange: 50NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 50 MM; MATERIAL: MS; STYLE: FLAT;	0619369	400
25.	Flange: 40NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 40 MM; MATERIAL: MS; STYLE: FLAT;	0619368	200
26.	Flange: 25NB mild steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 25 MM; MATERIAL: MS; STYLE: FLAT;	0619356	400
27.	Flange: 250NB stainless steel	FLANGE, PIPE: TYPE: WELDED; PIPE SIZE: 250 MM; MATERIAL: SS; STYLE: FLAT. BS4504	0619363	400

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28.	Flange: 200NB Stainless steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 200 MM; MATERIAL: SS; STYLE: FLAT;	0619367	400
29.	Flange: 150NB Stainless steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 150 MM; MATERIAL: SS; STYLE: FLAT;	0619364	400
30.	Flange: 100NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 100 MM; MATERIAL: MS; STYLE: FLAT;	0619362	500
31.	Flange: 80NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 80 MM; MATERIAL: SS; STYLE: FLAT;	0619361	500
32.	Flange: 65NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 65 MM; MATERIAL: SS; STYLE: FLAT;	0619367	400
33.	Flange: 50NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 50 MM; MATERIAL: SS; STYLE: FLAT;	0619369	400
34.	Flange: 40NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504 10, PIPE SIZE: 40 MM; MATERIAL: SS; STYLE: FLAT;	0619368	400

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35.	Flange: 25NB Stainless Steel	FLANGE, PIPE: TYPE: WELDED; BS4504, PIPE SIZE: 25 MM; MATERIAL: SS; STYLE: FLAT;	0619356	400
36.	Carbon Steel Pipe	12m x DN 600 Pipes; Carbon Steel (SABS 719 Grade B); OD 609.6 mm x 8 mm wall thickness; Pressure Rating: PN10; Design Temperature: 20°C; Corrosion protection	0620477	250
37.	Carbon Steel Pipe	18m x DN250 Pipes; Carbon Steel (SABS 719 Grade C); OD 273 mm x 8 mm wall thickness; Pressure Rating: Class 2500; Design Temperature: 20°C; Corrosion protection: Red oxide; Flanges to SABS 1123 / Class 2500	0566060	250
38.	Carbon Steel Pipe	6 m x DN900 Pipes; Carbon Steel (ASTM A106 Gr B); OD 900 mm x 10 mm wall thickness; Pressure Rating: PN16; Design Temperature: 20°C	0056195	200
39.	Carbon Steel Pipe	6 m x DN500 Pipes (with flanges); Carbon Steel (ASTM A106 Gr B); OD 490 mm x 10 mm wall thickness; Pressure Rating: PN16	0036868	200
40.	Carbon Steel Pipe	12 m x DN500 Pipes; Carbon Steel (SABS 719 Grade B); OD 508 mm x 8 mm wall thickness;	0045386	250

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		Corrosion protection: Galvanised; Pressure Rating: PN16		
41.	Carbon Steel Pipe	6 m × DN350 Pipes; Carbon Steel (SABS 719 Grade B); OD 355.6 mm × 6 mm wall thickness; Corrosion protection: Galvanised; Pressure Rating: PN16	0244376	200
42.	Carbon Steel Pipe	6 m × DN400 Pipes; Carbon Steel (SABS 719 Grade B); OD 412 mm × 6 mm wall thickness; Pressure Rating: PN16; Design Temperature: 20°C	0783889	200
43.	Johnson Coupling	DN600 – Steel to BS EN 10025 2 Grade S275JR (OD 609.6 mm, PN10)	0065766	250
44.	Johnson Coupling	DN500 – Steel to BS EN 10025 2 Grade S275JR (OD 508 mm, PN10)	0783855	250
45.	Johnson Coupling	DN350 – Steel to BS EN 10025 2 Grade S275JR (OD 355.6 mm, PN10)	0683843	250
46.	Johnson Coupling	DN900 – Steel to BS EN 10025 2 Grade S275JR (OD 914.4 mm, PN16)	0823847	250

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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	

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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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COMMENTS

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