Eskom	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
		Effective Date	October 2024		
		Review Date	October 2027		

PLANT AREA: Matla Power Station (Unit 1 and 3) TITLE: Manufacture and supply of Hot Reheat Bends at Matla (once-off order)			
REF: MEB-055825	Reference Rev No:1	MULTIDISCIPLINARY: No	Plant Level: All

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ACCEPTED	*Name:* *Outage Manager/Maintenance manager*	Signature:	Date:
ACCEPTED	*Name:* *AIA*	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	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.	Hold point	Contractor

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		• 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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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.	Hot Reheat bends (RB05) are required to be manufactured and supplied to Matla Power Station to be used for Unit 1 and 3. The BOM is attached specifying the material specifications: • Hot Reheat bends seamless (8 off)	**Requirements** The following standards shall be adhered to (i.e., Latest editions): BS EN 10216-2; BS EN 13480; EN10253-2 and BS EN 10222-2. • All welding operations shall adhere to the latest Eskom Welding Rule Book 240-56355225 (available upon request). • Eskom standard: Procurement of Seamless Steel High Pressure Pipework and Boiler Tubing Material Standard in the Generation Division		

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		(240-87733094) Rev 4 shall be adhered to [Available upon request]. • A QCP must be generated for all manufacturing operations. This must be sent to Boiler Engineering, the AIA, and the Eskom Quality Department for approval. The QCP shall highlight all the different activities which will be done and should accommodate hold, witness, and surveillance points. **Note**: All parties shall be notified at least 72 hours before they are required to witness any points. • Certification shall be in accordance with the latest version of the EN10204: "Types of		

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		Inspection Documents" for EN. Certification for piping products (OD>141.3 mm) shall be in accordance with EN10204 3.2 in all cases. • The technical data book shall include the following: o Order requirements and specifications o Signed quality control plans. o PED Certification o Correspondence regarding concessions, deviations, and technical verifications. o Steel making processes and Foundry material certificates.		

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2.	Transportation and Delivery of all material to Matla Power Station must be done by the supplier.	• Documentation (i.e., material certificates & quantity) of the material ordered must brought with on the day of delivery. • Engineering and Eskom AIA contractors to be invited for quality checks at least 72 hours before the delivery of the material to Matla Power Station. • Transportation of the bends must be in secured bundles and must be from an anti-corrosive environment storage. Bends to be supplied must be hard stamped, showing the heat number, material grade and dimensions (i.e., Outside diameter, thickness, and length).		

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		• Upon delivery of bends, the supplier should inform Eskom Stores Department 2-3 days earlier prior to the delivery. Material should not be offloaded from the truck until Quality Control has been done and material has been accepted by the System Engineer.		

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BILL OF MATERIAL

Hot Reheat Bends

System	Component	Material Grade	Reference Standard	ID (mm)	Design Pressure and Temperature	Min WT (mm)	Quantity Required	Stock Numbers
Hot Reheat Pipework	90 Degree **Seamless** Bends Bend 33,34 Radius 1750	11CrMo9-10 (1.7383)	EN10222-2 TC2	1070	Design Temperature: 540 ℃ Design Temperature: 4.3 MPa	58	4 Bends	785136
Hot Reheat Pipework	36 Degree **Seamless** Bend Bend 35 Radius 1750	11CrMo9-10 (1.7383)	EN10222-2 TC2	1070	Design Temperature: 540 ℃ Design Temperature: 4.3 MPa	58	2 Bends	785029

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System	Component	Material Grade	Reference Standard	ID (mm)	Design Pressure and Temperature	Min WT (mm)	Quantity Required	Stock Numbers
Hot Reheat Pipework	54 Degree Bend **Seamless** Bend 36 Radius 1750	11CrMo9-10 (1.7383)	EN10222-2 TC2	1070	Design Temperature: 540 ℃ Design Temperature: 4.3 MPa	58	2 Bends	785028

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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	

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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	

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COMMENTS

ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
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