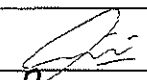



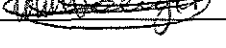


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PLANT AREA. Turbine Plant – CW and Condensate systems

TITLE: Supply and Delivery of Mechanical Seals for various pumps on an as and When Required Basis

REF: MET - 053821	Reference Rev No:0	MULTIDISCIPLINARY: No	Plant Level 1
COMPILED BY	Name: Hlavutelo Nkwinika Engineer	Signature 	Date 2022/02/08
APPROVED	Name: Collins Phooko(Acting) Line Manager	Signature 	Date 08/02/2022
REVIEWED	Name: Lindo Ngobese (Acting) Engineering Group Manager	Signature 	Date 2022/02/08
REVIEWED	Name: Dorah Mkhonto Quality Manager	Signature 	Date 2022/02/08
REVIEWED	Name: Bethuel Moeng Environmental Department	Signature 	Date 2022/02/08
ACCEPTED	Name: Outage /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	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 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

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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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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2 1	Supply and deliver mechanical seals for various pumps on the turbine Plant as per the Bill of Materials below	All seals to be delivered with stamped/pinned to seal <ul style="list-style-type: none"> • Manufacturer • Model number • Drawing number reference • Serial number • Pressure test and QC certificate by the Original Equipment Manufacturer (OEM) 	R	Contractor

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BILL OF MATERIAL

	Stock number	QTY	Seal Description	Pump
1.	0094091	50	SEAL MECH:CARTRIDGE MOUNTED;50 MM SEAL, MECHANICAL: TYPE: CARTRIDGE MOUNTED; SHAFT DIAMETER: 50 MM; BODY MATERIAL: CARBON/CERAMIC/VITON; REFERENCE NO: 123-50, UNK; GRADE 658 RC CARBON, 99.5PCT ALUMINA CERAMIC, SELF ALIGNING SINGLE, CHESTERTON BRAND ONLY ACCEPTABLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Unit cooling pump
2.	0248798	40	SEAL MECH:PUMP;55 MM;CARBON/CERAMIC SEAL, MECHANICAL: TYPE: PUMP; SHAFT DIAMETER: 55 MM; BODY MATERIAL: CARBON/CERAMIC; APPLICATION: STATOR COOLANT; MANUF P/N: 310/76353/F07, MANUFACTURER: MAX MECH; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Stator coolant pump
3.	667154	25	SEAL, MECHANICAL: TYPE: DOUBLE CARTRIDGE MOUNTED; SHAFT DIAMETER: 120 MM; BODY MATERIAL: SS 329; APPLICATION: CONDENSATE PUMP; REFERENCE NO: GA-183035; SB25; FACE MATERIAL SILICON CABRIDGE; AXIAL FLOAT + DOWN 2.5 MM AND UP 5 MM; DEPTH 56.9 MM; OD 159.8; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	Main CEP

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4.	06746 0667158	30	SEAL MECH:DOUBLE CARTRIDGE MOUNTED;90 MM SEAL, MECHANICAL: TYPE: DOUBLE CARTRIDGE MOUNTED; SHAFT DIAMETER: 90 MM; BODY MATERIAL: SS GR 316; APPLICATION: CONDENSATE PUMP; REFERENCE NO: GA-216529; SB25; FACE MATERIAL SILICON CARBIDE; AXIAL FLOAT 2.8 MM; DEPTH 50.5 MM; OD 117.45 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	BFPT CEP
5.	0693234	50	SEAL MECH:CARTRIDGE;130 MM;SS 316 SEAL, MECHANICAL: TYPE: CARTRIDGE; SHAFT DIAMETER: 130 MM; BODY MATERIAL: SS 316; APPLICATION: BOOSTER PUMP; MANUF P/N: MAX MECH 310SQ; TUNGSTEN SEALING FACE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	CW Booster pump
6.	0693236	30	SEAL MECH:CARTRIDGE;250 MM;SS 304 SEAL, MECHANICAL: TYPE: CARTRIDGE; SHAFT DIAMETER: 250 MM; BODY MATERIAL: SS 304; APPLICATION: CW PUMP; DRAWING NO: 1533/1-1/3 REV 0; MAX MECH 1533; TUNGSTEN SEALING FACE;	Main CW pump
7.	667157	50	SEAL, MECHANICAL: TYPE: DOUBLE CARTRIDGE MOUNTED; SHAFT DIAMETER: 75 MM; BODY MATERIAL: SS 329; APPLICATION: LP PUMP; REFERENCE NO: GA-212306; SB25; FACE MATERIAL SILICON CARBIDE; DEPTH 51 MM; OD 101.4 MM;	LP Heater drain pump

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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	

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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

Scope requested by Stores to purchase these stock items through a contract

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