

 Eskom	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
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PLANT AREA Matla Power Station					
TITLE WTP Valves Contract Scope of Work					
REF MEA 07066	Reference Rev No 3		MULTIDISCIPLINARY No		Plant Level All
COMPILED BY	Name Isaack Maredi Systems Engineer	Signature	Date 13-03-2026		
APPROVED	Name Gavin Phelelo Auxiliary Engineering Line Manager	Signature	Date 18/03/2026		
APPROVED	Name Lindokuhle Ngobese Engineering Department Manager	Signature	Date 2026/03/25		
REVIEWED	Name Johan Lourens Quality Department	Signature	Date 2026/04/16		
REVIEWED	Name Occupational Health and Safety	Signature	Date		
REVIEWED	Name Zodwa Zulu Environmental Department	Signature	Date 16/04/2026		
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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This Scope was compiled for the supply and delivery of Water Treatment Plant Valves at Matla Power Station.

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2.1	Required Services	The Services which are required from the successful Service Provider shall include but not limited to the below: • Supply of new valves. • Refurbishment of old valves. • Valves Site Support • Delivery/Collection of Valves at Matla Power Station • Commissioning of valves at Matla as/when required. • Valves Failure Report for all valves which have failed within a year of installation.	Hold Point	Contractor

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2.2	Scope of Work Requirements	The detailed Scope of Work requirements are as per below: • The contractor is responsible for deliver of Water Treatment Plant Valves at Matla Power Station as and when required based on the stock levels requirements at Matla Stores. • The Contractor is expected to deliver the valves within 5 days upon receiving a delivery request. • The contractor is expected to be available on a 24 hour standby basis in case of any site support required by Matla which may include but not limited to defective valve, valve delivery or any other issue that may arise related to the valves. • All Valves are required to be delivered with their Material Certificates. • The Auxiliary Engineering System Engineer will conduct Quality Control of the delivered valves at stores and the delivery notes will	Hold Point	Contractor
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		be signed off once the valves meets the Quality Control Checks. - The contractor is required to abide by the Eskom Standard for low pressure valves (240-105020315) for all new and refurbished valves. All the valves must meet this standard's requirements. - All valves must be pressure tested, and the valves must be delivered on site along with the Pressure Test Certificate as part of the data pack. - The contractor must have an approved Quality Control Document before any valve refurbishment work could kick off. This quality control document must obtain approval from Eskom. - All valves other than the non-return, self-operating control valves, or safety valves shall be fitted with mechanical indicators which clearly and accurately indicate the degree to which the valves are open or closed.		
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		All valves shall be permanently marked with their pressure rating and nominal bore of valve at minimum, as well as their design standard.		
2.3	Plant Sub Systems	The required Water Treatment Plant Valves include but not limited to the below WTP sub systems: - Demin Trains - Dosing Station - Clarifiers - Sludge Sump - Filter Sump - Effluent Sump - Potable Water - Resin Transfers - Condensate Polishing Plant	Hold	Contractor

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		• Condensate Polishing Regeneration Plant • Bulk Chemicals Storage System. • Chlorine Dosing Station • Lime Plant • Recarb Plant • Screen Washing System		
2.4	Valve Types	The required Water Treatment Plant Valve Types include but not limited to the below: • Butterfly Valves • Ball Valves • Gate Valves • Plug Valves • Control Valves • Pressure Relief Valves • Non Return Valve	Hold	Contractor

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		The required valves specifications and quantities are shown in Appendix A below.		
2.5	General	- Only valves which meet the Technical Requirements will be accepted and any valves which do not meet the requirements will be rejected. - All Delivered valves must have an attached tag which should include the below details: - Eskom Material Stock Number - Delivery Date - Serial number - Valve Size - Pressure Rating		

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BILL OF MATERIAL

	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity

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New Valves to be supplied and old valves to be refurbished over contract duration							
Item Number	Plant Area	Stock Number	Valve, Type	Size	Specifications of Material/Spares/Equipment	New Valves Quantity	Refurbished Valves
1	Caustic	241296	Valve, Ball	80NB	VALVE, BALL: VALVE SIZE: 80 MM; DESIGN RATING: 6 MPA; CONNECTION: FLANGE; BODY MATERIAL: STL CAST; STYLE: 2 WAY; TRIM: SS 316; SOFTGOODS: PTFE; OPERATED: LEVER; TEMPERATURE RATING: 50 DEG C; FACE TO FACE LENGTH: 282 MM; DRILLED TO TABLE D, ANTI BLOW OUT STEM, ANTI STATIC, COMPLETE WITH LOCKING DEVICE, DLM MAKE ONLY;	80	
2	Caustic	241189	Valve, Ball	150NB	VALVE, BALL: VALVE SIZE: 150 MM; DESIGN RATING: 6 MPA; CONNECTION: FLANGE; BODY MATERIAL: STL CAST; STYLE: 2	80	

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					WAY; TRIM: SS 316; SOFTGOODS: PTFE; OPERATED: LEVER; TEMPERATURE RATING: 50 DEG C; FACE TO FACE LENGTH: 403 MM; DRILLED TO TABLE D, ANTI BLOW OUT STEM, ANTI STATIC, COMPLETE WITH LOCKING DEVICE, DLM MAKE ONLY		
3	Caustic	241188	Valve, Ball	100NB	VALVE, BALL: VALVE SIZE: 100 MM; DESIGN RATING: 6 MPA; CONNECTION: FLANGE; BODY MATERIAL: STL CAST; STYLE: 2 WAY; TRIM: SS 316; SOFTGOODS: PTFE; OPERATED: LEVER; TEMPERATURE RATING: 50 DEG C; FACE TO FACE LENGTH: 305 MM; DRILLED TO TABLE D, ANTI BLOW OUT STEM, ANTI STATIC, COMPLETE WITH LOCKING DEVICE, DLM MAKE ONLY	100	
4	Caustic	75669	Valve, Ball	50NB	VALVE, BALL: VALVE SIZE: 50 MM; DESIGN RATING: 280 LB; CONNECTION: FLANGE; BODY	120	

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					MATERIAL: SS 316; GRADE: WCB; STYLE: 2PC; 2 WAY; TRIM: BALL SS 316; PLUG/STEM STL; SEAT PTFE; OPERATED: LEVER; TEMPERATURE RATING: 190LB AT 175DEG C; PORT TYPE: FULL BORE; ANSI 150 RF; TYPE M;		
5	Caustic	75297	Valve, Relief	Caustic Pumps	VALVE, RELIEF: VALVE SIZE: 50 X 32 MM; SET PRESSURE: 7.87 BAR; TEMPERATURE RATING: -10 TO 50 DEG C; CONNECTION: THD; BODY MATERIAL: SS; TRIM: SEAT P20; SPINDLE SS; OPERATED: SPRING; GRADE: 316; DESIGN RATING: 887 KPA; PRESSURE RANGE: 5.25-12 BAR; FOR WALLACE AND TIERNAN DOSING AND METERING PUMP; PART NO: JUXA81040, SUPPLIER: UNKNOWN; PART NO: JP82995, SUPPLIER: UNKNOWN	50	

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6	Clarifier	627343	Valve, Butterfly	Clarifier Blowdown	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 350 NB; DESIGN RATING: 16 BAR; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: DISC SS; SOFTGOODS: EPDM LINED SEAT; OPERATED: HAND WHEEL; TEMPERATURE RATING: 38 DEG C; FACE TO FACE LENGTH: 80 MM; PART NO: B350WBFLYGB;	40	
7	Clarifier	627342	Valve, Butterfly	Clarifier Blowdown	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 350 NB; DESIGN RATING: 16 BAR; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: DISC SS; SOFTGOODS: EPDM LINED SEAT; OPERATED: PNEUMATIC; TEMPERATURE RATING: 38 DEG C; FACE TO FACE LENGTH: 80 MM; PART NO: B350WBFLYAC	40	
8	Clarifier	592896	Valve, Butterfly	Blowdown	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 300 MM; DESIGN RATING: 16 BAR; CONNECTION: WAFER; BODY MATERIAL: SS; TRIM: SS DISC; SOFTGOODS: EPDM LINING; OPERATED: PNEUMATIC;	40	

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					TEMPERATURE RATING: 25 DEG C; FACE TO FACE LENGTH: 76.9 MM; STYLE: WAFER; SPECIAL FEATURES: SPRING LOADED ACTUATOR F/C;		
9	CPP	627208	Valve, Ball	CPP Resin Inlet	VALVE, BALL: VALVE SIZE: NB100; DESIGN RATING: 1600 KPA; CONNECTION: FLANGE; BODY MATERIAL: SS 304; AUSTENITIC; STYLE: SPLIT BODY; TRIM: SS 304; OPERATED: PNEUMATIC; TEMPERATURE RATING: 80 DEG C; SPECIFICATION: BS450516/3 STANDARD; FACE TO FACE LENGTH: 225 MM; APPLICATION: CPP RESIN INLET VALVE; TYPE: SPRING RETURN; FLOW CONTROL; PART NO: 150UTB	120	
10	CPP	627203	Valve, Ball	CPP Resin Inlet	VALVE, BALL: VALVE SIZE: NB 80; DESIGN RATING: 1600 KPA; CONNECTION: FLANGE; BODY MATERIAL: SS 304; AUSTENITIC; STYLE: SPLIT BODY; TRIM: SS 304; OPERATED: PNEUMATIC;	120	

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					TEMPERATURE RATING: 80 DEG C; SPECIFICATION: BS450516/3 STANDARD; FACE TO FACE LENGTH: 200 MM; APPLICATION: CPP RESIN INLET VALVE; TYPE: SPRING RETURN; RESIN FLOW CONTROL; PART NO: 150UTB;		
11	General	553182	Valve, Pressure Reducing		VALVE: TYPE: PRESSURE REDUCING; VALVE SIZE: 1/2 IN; DESIGN RATING: 50 BAR; CONNECTION: NPT 1/2 IN; BODY MATERIAL: SS 316; STYLE: 1 WAY; OPERATED: MANUAL; TEMPERATURE RATING: 50 DEG C; FLOW COEFFICIENT=1.1; VALVE DISCHARGE PRESSURE IS 0-250 PSI; SERIES MODEL MUST BE PRINTED ON THE COVER; MODEL NO: PR7-1A11I8I312;	60	
12	General	75341	Valve, Butterfly	General	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 100 MM; DESIGN RATING: 10 BAR; CONNECTION: FLANGE; BODY MATERIAL: CI EPDM LINED; TRIM: DISC/PIN/SHAFT SS	120	

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					GR 316; OPERATED: GEARBOX; LINER REMOVABLE; MITECH BRAND ONLY ACCEPTABLE; REFERENCE NO: IHZ-IHS; MANUAL OVERRIDE HAND WHEEL.		
13	Lime	626239	Valve, Check	Recarb Dam to Lime Plants (250NB)	VALVE, CHECK: TYPE: DUAL PLATE; VALVE SIZE: 250 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CAST IRON; TRIM: SS 316 PLATE; SOFTGOODS: HYPALON LINED SEAT; FACE TO FACE LENGTH: 115 MM; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP NON RETURN VALVE; OPERATED: SPRING; PART NO: B250WNRVD/D;	60	
14	Lime	626238	Valve, Check	Recarb Dam to Lime Plants (100NB)	VALVE, CHECK: TYPE: DUAL PLATE; VALVE SIZE: 100 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CAST IRON; TRIM: SS 316 PLATE; SOFTGOODS: HYPALON LINED SEAT; FACE TO FACE LENGTH: 65	100	

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					MM; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP NON RETURN VALVE; OPERATED: SPRING; PART NO: B100WNRVD/D		
15	Lime	626237	Valve, Butterfly	Recarb Dam to Lime Plants (80NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 80 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: PNEUMATIC; TEMPERATURE RATING: 80 DEG C; APPLICATION: CPP AIRLINE RINSE; FACE TO FACE LENGTH: 40 MM; SCHEDULE: 40; SPECIAL FEATURES: AIR TO OPEN; PART NO: B80WB/FLYAC;	100	
16	Lime	626236	Valve, Butterfly	Recarb Dam to Lime Plants (80NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 80 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: PNEUMATIC;	80	

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					TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 44 MM; SCHEDULE: 40; SPECIAL FEATURES: AIR TO OPEN; PART NO: B80WB/FLYLV		
17	Lime	626234	Valve, Butterfly	Recarb Dam to Lime Plants (250NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 250 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: HANDWHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: RECARP DAM OUTLET; FACE TO FACE LENGTH: 65 MM; SCHEDULE: 40; RUBBER LINED; PART NO: B250WB/FLYGB;	80	
18	Lime	626233	Valve, Butterfly	Recarb Dam to Lime Plants (300NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 300 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED:	50	

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					HANDWHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 75 MM; SCHEDULE: 40; RUBBER LINED; PART NO: B300WB/FLYGB		
19	Lime	626232	Valve, Butterfly	Recarb Dam to Lime Plants (400NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 400 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: HANDWHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 85 MM; SCHEDULE: 40; RUBBER LINED; PART NO: B400WB/FLYGB	50	
20	Lime	626231	Valve, Butterfly	Recarb Dam to Lime Plants (100NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 100 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED:	70	

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					HANDWHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 50 MM; SCHEDULE: 40; RUBBER LINED; PART NO: B100WB/FLYGB		
21	Lime	626230	Valve, Butterfly	Recarb Dam to Lime Plants (200NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 200 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: HANDWHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: RECARB DAM OUTLET; FACE TO FACE LENGTH: 65 MM; SCHEDULE: 40; RUBBER LINED; PART NO: B200WB/FLYGB;	120	
22	Lime	626229	Valve, Butterfly	Recarb Dam to Lime Plants (100NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 100 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED:	80	

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					PNEUMATIC; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 50 MM; SCHEDULE: 40; SPECIAL FEATURES: AIR TO OPEN; PART NO: B100WB/FLYAC;		
23	Lime	626228	Valve, Butterfly	Recarb Dam to Lime Plants (80NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 80 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS: HYPALON LINED SEAT; OPERATED: HAND WHEEL; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 44 MM; SCHEDULE: 40; MANUAL WAFER RUBBER LINED; PART NO: B80WB/FLYLV	70	
24	Lime	626227	Valve, Butterfly	Recarb Dam to Lime Plants (250NB)	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 250 NB; DESIGN RATING: PN16; CONNECTION: WAFER; BODY MATERIAL: CI; TRIM: SS 316 DISC; SOFTGOODS:	80	

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					HYPALON LINED SEAT; OPERATED: PNEUMATIC; TEMPERATURE RATING: 80 DEG C; APPLICATION: DILUTION PUMP OUTLET; FACE TO FACE LENGTH: 65 MM; SCHEDULE: 40; SPECIAL FEATURES: AIR TO OPEN; PART NO: B250WB/FLYGB;		
25	Lime	592899	Valve, Non-Return	Dilution	VALVE: TYPE: NON RETURN; VALVE SIZE: NB250; FACE TO FACE LENGTH: 67.2 MM; DESIGN RATING: PN 16; CONNECTION: WAFER; BODY MATERIAL: MS; TRIM: SS; OPERATED: SPRING; TEMPERATURE RATING: 25 DEG C;	80	
26	Sludge	501280	Valve, Check	Sludge Pump Discharge	VALVE, CHECK: TYPE: DOUBLE FLAP; VALVE SIZE: 80 MM; DESIGN RATING: 7 BAR; CONNECTION: BOLTED FLANGE; BODY MATERIAL: CI; FACE TO FACE LENGTH: 260 MM; TEMPERATURE RATING: -5 TO 50 DEG C; APPLICATION: DEMIN WATER; OPERATED: WATER PRESSURE; VALVE MUST LINED	60	

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					WITH BUTYL RUBBER AND FLAP MUST ALSO BE BUTYL LINED; NX;		
27	general	74947	Gate valve	general	VALVE, GATE: VALVE SIZE: 150 MM; TYPE: DISC; CONNECTION: FLANGE; FACE TO FACE LENGTH: 280 MM; BODY MATERIAL: SGI; TRIM: SPINDLE SS; OPERATED: HANDWHEEL; SOFTGOODS: SEAL RESILIENT; STEM DESIGN: RISING; STYLE: BOLTED BONNET; SPECIFICATION: SABS 664; DESIGN RATING: 10-16 BAR; FIG NO: AINSWORTH 134012; DOUBLE FLANGED TO BS4504 TABLE 16/11 AND TO BE OF S.G. IRON; HANDWHEEL STAINLESS STEEL; PITCH CIRCLE DIAMETER 240 MM; 8 X 22 MM HOLES; TO BEAR THE SABS MARK; PROTECTED AGAINST	50	

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					CORROSION BY RED OXIDE PRIMER; AINSWORTH BRAND ONLY ACCEPTABLE; WITH OPEN AND CLOSED INDICATION HOUSING		
28	general	216645	Butterfly valve	general	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 150 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY MATERIAL: STAINLESS STEEL; OPERATED: AIR; GRADE: 316; SUPPL P/N: D.L.M. 1506126S/MK/H30DA/MK/ACC; MODEL NO: MODEL 612; 612; DUCTILE IRON BODY; EPDM REPLACEMENT LINER; FITTED WITH STAINLESS STEEL MOUNTING; KIT TO FIT MITECH SINGLE ACTING ACTUATOR.	120	

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29	general	75342	Butterfly valve	General	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 150 MM; DESIGN RATING: 10-16 BAR; TEMPERATURE RATING: 60-90 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI; OPERATED: GEARBOX; TRIM: DISC SGI NYLON COATED; SHAFT SS; EPDM LINED;	50	
30	general	62846	Check valve	general	VALVE, CHECK: TYPE: WAFER; VALVE SIZE: 200 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 120 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI; TRIM: SS;	60	

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31	general	573904	NRV	general	VALVE, CHECK: TYPE: WAFER; VALVE SIZE: 150 MM; DESIGN RATING: 200 KPA; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY MATERIAL: SS GR 316; FACE TO FACE LENGTH: 75 MM; OPERATED: FLOW; SPECIFICATION: ASME CL 150; SINGLE DISC WATER CHECK RITE; STYLE SINGLE DOOR; DISC 316 STAINLESS STEEL; SEAT 316 STAINLESS STEEL;	60	
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32	general	75672	Ball valve	General	VALVE, BALL: VALVE SIZE: 80 MM; DESIGN RATING: 18 BAR; TEMPERATURE RATING: 8 BAR AT 200 DEG C; CONNECTION: FLANGE; BODY MATERIAL: STAINLESS STEEL; OPERATED: LEVER; STYLE: SPLIT BODY; TRIM: BALL SS GR 316; SEAT PTFE; GRADE: CF8M; REFERENCE NO: 150UTBTP304SS; 150WTBTP304SS; ON-OFF; FOR SAUNDERS ACTUATOR	80	
33	Demin tanks	565087	Gate valve	350 mm	VALVE, GATE: VALVE SIZE: 350 MM; TYPE: FLAP; CONNECTION: FLANGE; FACE TO FACE LENGTH: 760 MM; BODY MATERIAL: CS; OPERATED: AUTOMATIC; TEMPERATURE RATING: 80 DEG C; APPLICATION: BOOSTER PUMP; DESIGN RATING: 16 BAR; MANUF P/N: DSFFV350PULBT16; .	40	

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34	general	0685855	Butterfly valve	100mm	VALVE, BUTTERFLY: TYPE: ISOLATING; VALVE SIZE: 100 MM; DESIGN RATING: PN16; TEMPERATURE RATING: AMBIENT; CONNECTION: FLANGE; BODY MATERIAL: CR13; FACE TO FACE LENGTH: 200 MM; OPERATED: FLOW; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: AUXILIARY BOILER 1 DEMINERALISED WATER SUPPLY SYSTEM INLET;	45	
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35	general	0216646	Butterfly valve	80mm	VALVE, BUTTERFLY: VALVE SIZE: 80 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: DOUBLE FLANGE; BODY MATERIAL: STAINLESS STEEL; OPERATED: AIR; GRADE: 316; SUPPL P/N: 080612X6S/MK/H25DA/MK/ACC; MODEL NO: 612; EPDM REPLACEMENT LINER; FITTED WITH STAINLESS MOUNTING KIT TO FIT HABONIM DOUBLE ACTING ACTUATOR MODEL H25DA AND TWIST SET LIMIT SWITCH WITH MICRO SWITCHES; CONTROL.	45	
36	General	75580	Check valve	80mm	VALVE, CHECK: TYPE: SWING WAFER; VALVE SIZE: 80 MM; DESIGN RATING: 16 BAR; CONNECTION: FLANGE; BODY MATERIAL: CI; TRIM: SS GR 316; SEAT SS GR 316;	30	

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37	general	0256677	Butterfly valve	800mm	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 800 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY & Disk MATERIAL: SG Iron EN 1563 Gr400/15; OPERATED: Manual; NO: MODEL 612; 612; DUCTILE IRON BODY; Gearbox fitted on valve (243:1). Flange as per BS4504.	30	10
38	general	0218845	Butterfly valve	700mm	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 700 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY & Disk MATERIAL: SG Iron EN 1563 Gr400/15; OPERATED: Manual; NO: MODEL 612; 612; DUCTILE IRON BODY; Gearbox fitted on valve (243:1). Flange as per BS4504.	30	10
39	general	0316548	Butterfly valve	600mm	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 600 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C;	40	5

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					CONNECTION: FLANGE; BODY & Disk MATERIAL: SG Iron EN 1563 Gr400/15; OPERATED: Manual; NO: MODEL 612; 612; DUCTILE IRON BODY; Gearbox fitted on valve (243:1). Flange as per BS4504.		
40	general	0413487	Butterfly valve	500mm	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 500 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY & Disk MATERIAL: SG Iron EN 1563 Gr400/15; OPERATED: Manual; NO: MODEL 612; 612; DUCTILE IRON BODY; Gearbox fitted on valve (243:1). Flange as per BS4504.	40	5
41	general	0523428	Butterfly valve	400mm	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 400 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 0-200 DEG C; CONNECTION: FLANGE; BODY & Disk MATERIAL: SG Iron EN 1563 Gr400/15; OPERATED: Manual; NO: MODEL 612; 612; DUCTILE IRON	70	

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					BODY; Gearbox fitted on valve (243:1). Flange as per BS4504.		
42	general	671581	Diaphragm valve	150mm	VALVE, DIAPHRAGM: TYPE: A WEIR; VALVE SIZE: 150 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 150 DEG C; CONNECTION: FLANGE; BODY MATERIAL: DUCTILE IRON; DIAPHRAGM MATERIAL: PTFE; FACE TO FACE LENGTH: 127 MM; OPERATED: ACTUATOR PNEUMATIC; BUTYL LINING; DENIM PLANT; NORMALLY CLOSED	120	
43	General	75580	Check valve	80mm	VALVE, CHECK: TYPE: SWING WAFER; VALVE SIZE: 80 MM; DESIGN RATING: 16 BAR; CONNECTION: FLANGE; BODY MATERIAL: CI; TRIM: SS GR 316; SEAT SS GR 316; Disk: SS GR 316	160	
44	General		Plug valve	50mm	PLUG, VALVE: VALVE STYLE: TAPER; VALVE SIZE: 50 MM; MATERIAL: AUSTENITIC CAST IRON;	150	

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					PN16; BS45004-16; FF 203MM; WRENCH		
45	General		Plug Valve	65mm	PLUG, VALVE: VALVE STYLE: TAPER; VALVE SIZE: 65 MM; MATERIAL: AUSTENITIC CAST IRON	150	
46	General		Plug Valve	80mm	PLUG, VALVE: VALVE STYLE: TAPER; VALVE SIZE: 80 MM; MATERIAL: AUSTENITIC CAST IRON; PN16; BS45004-16; FF 203MM; WRENCH	150	
47	General		Plug Valve	40mm	PLUG, VALVE: VALVE STYLE: TAPER; VALVE SIZE: 40 MM; MATERIAL: AUSTENITIC CAST IRON; PN16; BS45004-16; FF 203MM; WRENCH	150	
48	General		Plug Valve	25mm	PLUG, VALVE: VALVE STYLE: TAPER; VALVE SIZE: 25 MM; MATERIAL: AUSTENITIC CAST IRON; PN16; BS45004-16; WRENCH	150	

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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				
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)				
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LOPP strategy reports				
URS				
Philosophy (Outage)				
Condition Monitoring Report				
VA/PHD Viewer trends				
Corrective Actions				
CARAB reports				
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				

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