

	Scope of Work	Kusile Power Station
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Title: Kusile Power Station Supply and Delivery of Non-Critical Pumps for a Period of Five (5) Years on an As and When Required Basis

Document Identifier: KUS - 202608107

Alternative Reference Number: N/A

Area of Applicability: Eskom Holdings SOC Ltd

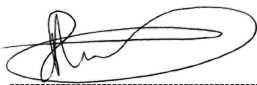
Functional Area: Maintenance

Revision: 1

Total Pages: 27

Next Review Date: N/A

Disclosure Classification: Controlled Disclosure

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Date: 28/08/2026	Date: 2026/08/28	Date: 28/08/2026	Date: 31/08/2026

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CONTROLLED DISCLOSURE

1. Introduction

Kusile Power Station Maintenance Management intends to establish a contractual relationship with a suitably qualified, experienced, and well-established Contractor for the supply and delivery of non-critical pumps at Kusile Power Station. The scope applies to operating units and associated balance-of-plant systems. This document defines the requirements, applicable standards, scope of work, and conditions governing the supply and delivery of the required items.

2. Supporting Clauses

2.1 Scope

This Scope of Work specifies the non-critical pump spares to be supplied by the Supplier on an as-and-when-required basis, including the conditions for acceptance. The requirements contained herein do not replace or supersede Eskom procurement procedures, which shall continue to apply throughout the procurement and contract execution process.

2.1.1 Purpose

The purpose of this document is to clearly define the Scope of Work and provide the necessary technical information, supply requirements, delivery requirements, and acceptance criteria for the procurement of non-critical pumps for Kusile Power Station.

2.1.2 Applicability

This document applies to Kusile Power Station Generation and to all parties involved in the procurement, supply, delivery, inspection, and acceptance of the non-critical pumps described in this Scope of Work.

2.1.3 Effective date

This document shall take effect from the date of final authorisation, being the date of the last signature, and shall remain valid until it is replaced by a subsequently authorised revision.

2.2 Normative/Informative References

All parties using this document shall apply the latest approved revisions of the referenced documents listed below, unless otherwise specified.

2.2.1 Normative

Latest revisions of the following documents apply:

- [1] ISO 9001 Quality Management Systems
- [2] 474- 12472- Critical Pumps Generation Engineering Strategic Report 2021
- [3] 240-86546783: Procurement Standard for Material Certification Requirements Applicable to Metallic Products Used on Low and Medium Pressure Applications

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2.2.2 Informative

N/A

2.3 Definitions

Abbreviation	Explanation
Contractor	A service provider appointed to supply specific spares and associated documentation to Kusile Power Station. For consistency in this document, the term Contractor is used to refer to the appointed service provider.
Employer	Kusile Power Station

2.3.1 Document:

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

Abbreviation	Description
ISO	International Organisation for Standardisation
KPI	Key Performance Indicator
OEM	Original Equipment Manufacturer
OHS	Occupational Health & Safety
SOW	Scope Of Work

2.5 Roles and Responsibilities

All parties involved in this Scope of Work shall perform their respective obligations in accordance with the contract requirements and in a spirit of mutual trust, cooperation, and professional accountability.

2.5.1 Employer

The Employer shall:

1. Identify and define the required non-critical pump spares for the plant.
2. Compile detailed spare specifications and complete the relevant data capture forms.
3. Compile and submit the Scope of Work, including all applicable technical specifications.
4. Perform quality control inspections of all delivered spares at the Employer's premises.
5. Initiate the applicable repair or replacement process where supplied items are found to be defective, damaged, incomplete, or non-compliant.
6. Ensure that all inspected and accepted spares are clearly identified, classified, and recorded in accordance with the applicable Eskom requirements.

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2.5.2 Contractor

The Contractor shall:

1. Supply and deliver all items in accordance with the specifications, quantities, and requirements provided by the Employer.
2. Request clarification or additional information from the Employer where required before supply or delivery.
3. Comply with the agreed delivery schedules, lead times, and contractual commitments.
4. Promptly communicate any anticipated delays, extended lead times, or supply constraints to the Employer.
5. Deliver all items to Kusile Power Station Stores and obtain signed proof of delivery.
6. Supply spares that are identical to, or fully compatible with, the equipment currently installed at Kusile Power Station, supported by applicable OEM datasheets, certificates, manuals, drawings, and other required technical documentation.

2.6 Process for Monitoring

This document establishes a five-year Scope of Work for the supply and delivery of non-critical pump spares on an as-and-when-required basis.

Contract monitoring shall be conducted to verify that all deliverables are supplied in accordance with the specified technical requirements, agreed timelines, quality standards, and contractual obligations. Supplier performance shall be assessed against the applicable Key Performance Indicators and any other requirements defined by the Employer.

Any deviation from the agreed scope, technical specifications, quality requirements, or delivery commitments shall be identified, recorded, and addressed through the applicable corrective action process in accordance with Eskom governance requirements.

2.7 Related/Supporting Documents

The documents listed below are considered integral to this Scope of Work and shall be read in conjunction with it. All parties shall ensure that the latest applicable revisions of these documents are used.

3. Document Content

This section defines the technical content and supply requirements for the procurement, supply, delivery, inspection, and acceptance of non-critical pumps and associated OEM spares for Kusile Power Station.

3.1 Supply and Delivery of Non-Critical Pump

The supply and delivery of non-critical pumps shall include complete items that are fully assembled, fit for purpose, and ready for use. All supplied pump units shall comply with the applicable specifications, operational requirements, and site conditions at Kusile Power Station.

Deliveries shall only be made against an official purchase order issued by the Employer.

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All non-critical pump spares shall be subjected to Quality Control inspection and approval by an authorised Quality Control nominee from the End-User's approved list of spare inspectors. No pump, spare, or accessory shall be accepted without prior inspection and verification against the required specifications.

Any costs incurred prior to delivery, including inspection, preparation, packaging, documentation, and ensuring completeness of the supplied item, shall be borne by the Contractor.

3.2 Description of the Works

The scope of work includes the supply and delivery of non-critical pumps sourced from the Original Equipment Manufacturer or supplied as OEM-approved equivalent items where applicable and accepted by the Employer. The required spares and components are listed in Table 1.

Table 1: Non-Critical Pumps List

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
1	571870	PUMP: TYPE: PERISTALTIC; SIZE: 1/8 IN; CAPACITY: 1 L/HR; SPEED: 50 RPM; RATING: 50 KPA; DRIVER: MOTOR; SPECIFICATION: JSR 25; POTENTIAL: 220 V; CASING MATERIAL: STEEL; APPLICATION: CONDENSATE WATER; SUPPL P/N: 32. 00510	12	FGD C&I
2	576757	PUMP, CENTRIFUGAL: NPSH: 0.24 BAR; CAPACITY: 5-60 L/S; TOTAL HEAD: 130 KPA; SIZE: 160 MM; SPEED: 460 R/S; STAGE: 1; DRIVER: INDUCTION MOTOR - 3.8KW; 400V; 4 POLE; 1435RPM; W21 112M; TYPE: TRANSFORMER OIL CIRCULATION PUMP; SPECIFICATION: IEC34-1; MOUNT: FLANGE; SUPPL P/N: VMOA 100 218-C A C 3 F; REFERENCE NO: 107839-1	3	Elec Engineering
3	620120	CONTROL; SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST HORIZONTAL; REFERENCE NO: 10/035574; DIRECTLY COUPLED TO A 90 W; 1 PHASE; IP65/F; ELECTRIC MOTOR AND A MECHANICAL DIAPHRAGM PUMP, DIAPHRAGM: TYPE: FERRIC CHLORIDE DOSING; SIZE: 20 X 20 MM; CAPACITY: 115 L/HR; SPEED: 120 RPM; RATING: 3 BAR; MOUNT:	2	STP
4	620430	PUMP, CENTRIFUGAL: NPSH: 1.62 M; CAPACITY: 32 L/S; TOTAL HEAD: 12.2 M; SIZE: 152 X 152 MM; SPEED: 1020 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: RAW SEWAGE; MOUNT: HORIZONTAL; SHAFT DIAMETER: 38.1 MM; REFERENCE NO: 0212091425-259N; TO BE SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST	2	STP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
5	620431	PUMP, CENTRIFUGAL: NPSH: 2.4 M; CAPACITY: 130 M3/HR; TOTAL HEAD: 12 M; SIZE: 125 X 100 MM; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: FILTER SUPPLY; MOUNT: HORIZONTAL; SHAFT DIAMETER: 38.1 MM; REFERENCE NO: 9372521-547; TO BE SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST	2	STP
6	620970	PUMP, CENTRIFUGAL: NPSH: 3.4 M; CAPACITY: 135 M3/HR; TOTAL HEAD: 90 M; SIZE: 125 X 80 MM; SPEED: 2970 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: ISO 5199/EN 25199; MOUNT: HORIZONTAL; DRAWING NO: 0.90/37310 REV 0; MODEL NO: LSN-125-80-S1VV1-7502; APPLICATION: FLY ASH CONDITIONING WATER SUPPLY; SUPPLY DATA SHEET ON DELIVERY; GENERAL ARRANGEMENT DRAWING; OPERATING AND MAINTENANCE MANUAL; DESIGN AND DRAWINGS REFER TO ESKOM DOCUMENT NUMBER: 203-9618	5	BOP MMD
7	623393	PUMP, CENTRIFUGAL: NPSH: 3.8 M; CAPACITY: 1100 M3/HR; TOTAL HEAD: 64.4 M; SIZE: 300 X 250 MM; SPEED: 1473 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK250-500; MOUNT: HORIZONTAL; REFERENCE NO: 506367/9; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL	18	CPP
8	623394	PUMP, CENTRIFUGAL: NPSH: 1.5 M; CAPACITY: 40 M3/HR; TOTAL HEAD: 30 M; SIZE: 65 X 40 MM; SPEED: 2890 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-CHEM 40-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.094/5; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL	2	CPP
9	623397	PUMP, CENTRIFUGAL: NPSH: 1.2 M; CAPACITY: 35 M3/HR; TOTAL HEAD: 41.3 M; SIZE: 65 X 40 MM; SPEED: 2930 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-CHEM 40-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.060/1; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL	2	WTP
10	623400	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 300 M3/HR; TOTAL HEAD: 20.4 M; SIZE: 200 X 150 MM; SPEED: 1465 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 150-315; MOUNT: HORIZONTAL; REFERENCE NO: 396.111/2	2	WTP

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Item No	Material Number	Equipment Short description	Total Qty	Plant Area
11	623401	PUMP, CENTRIFUGAL: NPSH: 4.8 M; CAPACITY: 120 M3/HR; TOTAL HEAD: 40.8 M; SIZE: 100 X 125 MM; SPEED: 2940 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 80-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.109/10	2	WTP MMD
12	623402	FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL ELECTRIC MOTOR; SPECIFICATION: CPK200-500; MOUNT: HORIZONTAL; REFERENCE NO: 506385/7; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE PUMP, CENTRIFUGAL: NPSH: 3.8 M; CAPACITY: 560.5 M3/HR; TOTAL HEAD: 83.7 M; SIZE: 200 X 250 MM; SPEED: 1485 RPM; STAGE: 1; DRIVER:	3	WTP
13	623403	PUMP, CENTRIFUGAL: NPSH: 2.17 M; CAPACITY: 230.06 M3/HR; TOTAL HEAD: 26.3 M; SIZE: 200 X 150 MM; SPEED: 1482 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MCP200-150 315VD; MOUNT: HORIZONTAL; REFERENCE NO: 9972457229/200	2	WTP
14	623407	PUMP, CENTRIFUGAL: NPSH: 4.6 M; CAPACITY: 450 M3/HR; TOTAL HEAD: 32 M; SIZE: 200 X 150 MM; SPEED: 1580 RPM; STAGE: 1; DRIVER: DIESEL ENGINE; SPECIFICATION: ETA 150-315(J); MOUNT: HORIZONTAL; SUPPL P/N: 203-30156; REFERENCE NO: 9972286854/100	6	WTP
15	623409	PUMP, CENTRIFUGAL: NPSH: 7 M; CAPACITY: 160 M3/HR; TOTAL HEAD: 10.2 M; SIZE: 125 X 100 MM; SPEED: 1440 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 100-200; MOUNT: HORIZONTAL; REFERENCE NO: 369.092/3	2	WTP
16	623426	PUMP, CENTRIFUGAL: NPSH: 5.3 M; CAPACITY: 1120 M3/HR; TOTAL HEAD: 18.4 M; SIZE: 350 MM; SPEED: 985 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-NORM 350-400; MOUNT: HORIZONTAL; REFERENCE NO: C03764/5; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL	2	WTP
17	624128	NO: 254373 RPM; RATING: PN16; DRIVER: ELECTRIC MOTOR; APPLICATION: FUEL OIL LP SYSTEM; MOUNT: FLANGE; SUPPL P/N: KV-1500.EXB-003936; REFERENCE PUMP, ROTARY: TYPE: STOP SCREW; PORT SIZE: 200 X 150 MM; CAPACITY: 14171 L/MIN AT 60 DEG C; 1520 L/MIN AT 30 DEG C; SPEED: 1450	3	BOP MMD
18	624129	PUMP, ROTARY: TYPE: STOP SCREW; PORT SIZE: 80 MM; CAPACITY: 8.9 M3/HR AT 120 DEG C; 9.7 M3/HR AT 30 D EG C; SPEED: 1426 RPM; RATING: PN16; DRIVER: ELECTRIC MOTOR; APPLICATION: DRAIN FUEL OIL TANK; MOUNT: FLANGE; SUPPL P/N: KV-160.EXA-004051; REFERENCE NO: 254795	3	BOP MMD

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Item No	Material Number	Equipment Short description	Total Qty	Plant Area
19	633904	PUMP, CENTRIFUGAL: NPSH: 6 M; CAPACITY: 17 M3/HR; TOTAL HEAD: 98.5 M; SIZE: 100 MM; SPEED: 2919 RPM; STAGE: 7; TYPE: MULTI STG; MOUNT: VERTICAL; SUPPL P/N: CR-15-7-A-F-A-E-HQQE; OPERATING PRESSURE: 10 BAR; SUCTION AND DISCHARGE PORTS ON SAME LEVEL AND IN ONE LINE ENABLING INSTALLATION IN A HORIZONTAL ONE-PIPE SYSTEM	2	BOP MMD
20	633905	PUMP, CENTRIFUGAL: NPSH: 100 FT; CAPACITY: 200 M3/HR; TOTAL HEAD: 98.5 M; SIZE: 230 X 110.5 MM; SPEED: 2950 RPM; STAGE: 5; TYPE: MULTI STG SPLIT CASE; MOUNT: HORIZONTAL; SUPPL P/N: MPA100.2/2A-SA311A-9002; OPERATING PRESSURE: 40 BAR; ENSURE THE TEST REPORTS AND DATASHEETS ARE ATTACHED WITH THE PUMP ON DELIVERY	3	BOP MMD
21	634527	HYDRA-CELL D/G-10 SERIES PUMP, DIAPHRAGM: TYPE: AIR; SIZE: 1 X 3/4 IN; CAPACITY: 28 L/MIN; SPEED: 1450 RPM; RATING: 25 BARS; MOUNT: BOLTED BASE; BELT WASH;	3	BOP MMD
22	634750	PUMP, CENTRIFUGAL: NPSH: 9.2-3.2 M; CAPACITY: 300.7/100 M3/HR; TOTAL HEAD: 30 M; SIZE: 200 X 150 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 400 V 37 KW IP65; 1500 RPM; TYPE: END SUCTION; SPECIFICATION: ETA-CX-150-315; MOUNT: HORIZONTAL; SHAFT DIAMETER: 42 MM; SUPPL P/N: ST.250408; ITEM DATA SHEET IS REQUIRED ON EVERY DELIVERY	5	Turbine MMD
23	635210	PUMP: TYPE: HP POTABLE PUMP IN LP SERVICES; SIZE: DIA 368 X LG 570 MM; CAPACITY: 120 M3/HR; SPEED: 2950 RPM; RATING: 16 BAR; SUPPL P/N: 080-065-250 080-065-250; DIFFERENTIAL HEAD: 90 M; MATERIAL: CAST IRON; CASING; BRONZE IMPELLER; CR STL SHAFT; ETA 080-065-250 AT 2950 RPM; FLUID TEMPERATURE AT 20 DEG C; BARESHAFT PUMP ONLY; CLOSED IMPELLER TYPE; SEALING ARRANGEMENT; MECHANICAL SEAL; EXTERNAL COATING; RAL 6010 GREEN; FULL SIZE IMPELLER; BALANCING CERTIFICATE ACCORDING TO ISO 1940; OIL FILLED BEARING HOUSING WITH SIGHT GLASS; IDENTIFICATION LABEL; PUMP MAKE; MODEL; SERIAL NUMBER; IMPELLER SIZE; HEAD FLOW; ENSURE NAME PLATE IS FILLED IN; PUMP DRAWING TO BE PROVIDED WITH QUOTE DURING TENDER STAGE	3	BOP MMD

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Item No	Material Number	Equipment Short description	Total Qty	Plant Area
24	635452	PUMP: TYPE: HYDROCELL; SIZE: 1 X 3/4 IN; CAPACITY: 30.6 L/MIN; SPEED: 1450 RPM; RATING: 24 BAR; DRIVER: ELECTRIC MOTOR; SPECIFICATION: D10-X; POTENTIAL: 400 VAC; CASING MATERIAL: PLASTIC; APPLICATION: WATER; MODEL NO: D10XKBTHFEHA; OIL TYPE: 10W30; OIL CAPACITY: 1.05 L; GLAND SEAL FLUSH; BRASS HEAD; BUNA- DIAPHRAGM; MAXIMUM INLET PRESSURE: 17 BAR; BI-DIRECTIONAL TAPERED ROLLER BEARINGS 7/8 IN; SHAFT DIA: 500 MACRONS MAXIMUM SOLID SIZE; VALVE SEAT: SS 17-4	5	C&A MMD
25	636710	IMPELLER DIA: MAX 330 MM; DESIGNED 313.6 MM; IMPELLER SHAFT: 270 MM; POWER: 55.9 KW ELECTRIC MOTOR; TYPE: END SUCTION; MOUNT: VERTICAL; MODEL NO: LS200-350 S1VL1; WORKING PRESSURE: 3.2 BAR; IMPELLER TYPE: RADIAL; PUMP, CENTRIFUGAL: NPSH: 10 M; CAPACITY: 248.4 M3/HR; TOTAL HEAD: 31 M; SIZE: 200 X 250 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER:	2	BOP MMD
26	638984	PUMP, ASSEMBLY: TYPE: HOPPER FOG; APPLICATION: LIMESTONE DUST SUPPRESSION SYSTEM; IMPELLER BEARINGS; SHAFT; SEALS AND ALL OTHER PARTS; 4KW; 70BAR; 26LPM AT 1440RPM	5	C&A MMD
27	639114	PUMP, DIAPHRAGM: TYPE: CONTROLLABLE; SIZE: 5 MM; CAPACITY: 7 L/HR; SPEED: 150 RPM; RATING: 10 BARS; MANUF P/N: C409.2-7,0(E); REFERENCE NO: 00QLF30 AP001	2	Boiler MMD
28	639235	PUMP: TYPE: DISPLACEMENT; SIZE: 19 X 15 MM; CAPACITY: 12 L/MIN; SPEED: 1800 RPM; RATING: 1518.75 KPA; APPLICATION: GEARBOX OIL INTERNAL GEAR PUMP; SUPPL P/N: 109-F461001; SHW INTERGRATED PUMP WITH EXTERNAL SUCTION PRESSURE LINES	2	Turbine Engineering
29	642430	PUMP, ROTARY: TYPE: SCREW INSERT; PORT SIZE: 200 X 150 MM; CAPACITY: 25.30 KGS AT 31 BARG; SPEED: 1489 RPM; RATING: PN40; DRIVER: MOTOR; APPLICATION: FUEL OIL HP PUMP; MOUNT: VERTICAL; SUPPL P/N: CCGV-2250.ECEZP.50009; HOUSING P235GH; OPERATING TEMP: 150 DEG C	3	BOP MMD
30	642496	PUMP, ASSEMBLY: TYPE: DOUBLE GEAR; APPLICATION: MILLS HYDRAULIC OIL PUMP SYSTEM; SUPPL P/N: 3510532; REFERENCE NO: PGE104-2200/1100-RBR1/1N-3900; SQUARE FLANGE	5	Boiler Eng
31	644961	SPECIFICATION: MVT 274-300; REFERENCE NO: 1302-003 PUMP: TYPE: LIQUID RING VACUUM; SIZE: 4 X 4 IN; CAPACITY: 561 M3/HR; SPEED: 970 RPM; RATING: 33 MBAR ABS; DRIVER: ELECTRIC MOTOR;	3	WTP

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Item No	Material Number	Equipment Short description	Total Qty	Plant Area
32	645239	PUMP, ROTARY: TYPE: HYDRAULIC, SCREW; PORT SIZE: DN80; CAPACITY: 92 DM3/S; SPEED: 2900 RPM; RATING: 40 BARS; SPECIFICATION: L3MF60/120; OEM P/N: HTGD485981P0012	2	Turbine MMD
33	648334	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 5 L/HR; SPEED: 29 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.09 KW; SPECIFICATION: DMH 251; SUPPL P/N: 957-386-56; REFERENCE NO: 1000.000.0-1/P4; PUMP BODY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
34	648351	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 24 L/HR; SPEED: 120 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.09 KW; SPECIFICATION: DMH 251; SUPPL P/N: 957-386-61; REFERENCE NO: 1000.000.0-1/P14; PUMP BODY MATERIAL: AL; HEAD: SS; DIAPHRAGM: PTFE; VALVE BODY: 316L; VALVE BALL: 316L; VALVE SEAT: 316L; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
35	648352	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 46 L/HR; SPEED: 120 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.09 KW; SPECIFICATION: DMH 252; SUPPL P/N: 957-386-59; REFERENCE NO: 1000.000.0-1/P8; PUMP BODY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
36	648353	EVERY DELIVERY AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON DRIVER: ELECTRIC MOTOR 0.09 KW; SPECIFICATION: DMH 252; SUPPL P/N: 957-386-62; REFERENCE NO: 1000.000.0-1/P12; PUMP BODY MATERIAL: PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 37 L/HR; SPEED: 96 N/M; RATING: 10 BAR;	2	WTP
37	648354	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 38 L/HR; SPEED: 96 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.09 KW; SPECIFICATION: DMH 252; SUPPL P/N: 957-386-58; REFERENCE NO: 1000.000.0-1/P7; PUMP BODY MATERIAL: AL; HEAD: PVDF; DIAPHRAGM: PTFE; VALVE BODY: PVDF; VALVE BALL: PTFE; VALVE SEAT: PTFE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP

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Item No	Material Number	Equipment Short description	Total Qty	Plant Area
38	648355	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 11/4 X 11/4 IN; STYLE: ONE; CAPACITY: 67 L/HR; SPEED: 96 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.18 KW; SPECIFICATION: DMH 253; SUPPL P/N: 957-386-63; REFERENCE NO: 1000.000.2-3/P15/16; PUMP BODY MATERIAL: AL; HEAD; PVDF; DIAPHRAGM: PTFE; VALVE BODY: PVDF; VALVE BALL: PTFE; VALVE SEAT: PTFE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	4	WTP
39	648356	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 143 L/HR; SPEED: 75 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.55 KW; SPECIFICATION: DMH 254; SUPPL P/N: 957-335-12; REFERENCE NO: 1000.000.0-1/P28; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
40	648357	DELIVERY PVDF; DIAPHRAGM: PTFE; VALVE BODY: PVDF; VALVE BALL: PTFE; VALVE SEAT: PTFE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-370-96; REFERENCE NO: 1000.000.0-1/P17; PUMP BODY MATERIAL: AL; HEAD; PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 1500 L/HR; SPEED: 146 N/M; RATING: 4 BAR; DRIVER:	2	WTP
41	648358	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 1150 L/HR; SPEED: 146 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-364-14; REFERENCE NO: 1000.000.0-1/P26; PUMP BODY MATERIAL: AL; HEAD; PVDF; DIAPHRAGM: PTFE; VALVE BODY: PVDF; VALVE BALL: PTFE; VALVE SEAT: PTFE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
42	648359	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 1150/2 L/HR; SPEED: 146 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 1.5 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-370-97; REFERENCE NO: 1000.000.0-1/P18+25; PUMP BODY MATERIAL: AL; HEAD: SS; DIAPHRAGM: PTFE; VALVE BODY: 316 L; VALVE BALL: 316 L; VALVE SEAT: 316 L; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	4	WTP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
43	648364	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 440 L/HR; SPEED: 56 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-382-17; REFERENCE NO: 1000.000.0-1/P9; PUMP BODY MATERIAL: AL; HEAD: PVDF; DIAPHRAGM: PTFE; VALVE BODY: PVDF; VALVE BALL: PTFE; VALVE SEAT: PTFE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
44	648365	DELIVERY PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PP; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-386-55; REFERENCE NO: 1000.000.0-1/P3; PUMP BODY MATERIAL: AL; HEAD: PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 750 L/HR; SPEED: 73 N/M; RATING: 4 BAR; DRIVER:	2	WTP
45	648366	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32; STYLE: ONE; CAPACITY: 440 L/HR; SPEED: 56 N/M; RATING: 4 BAR; DRIVER: ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 967-249-72/957-386-57; REFERENCE NO: 1000.000.0-1/P2/5; PUMP BODY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	4	WTP
46	655099	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 1150 L/HR; SPEED: 146 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-126-58; REFERENCE NO: 1000-0000-1/1; PUMP BODY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP
47	655100	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 5/8 X 5/8 IN; STYLE: ONE; CAPACITY: 1151 L/HR; SPEED: 146 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 1.1 KW; SPECIFICATION: DMH 257; SUPPL P/N: 957-386-60; REFERENCE NO: 1000-0000-1/10; PUMP BODY MATERIAL: AL; HEAD: SS; DIAPHRAGM: PTFE; VALVE BODY: 316 L; VALVE BALL: 316 L; VALVE SEAT: 316 L; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	2	WTP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
48	655101	REQUIRED ON EVERY DELIVERY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS DRIVER: ELECTRIC MOTOR 0.18 KW; SPECIFICATION: DMH 253; SUPPL P/N: 957-316-63; REFERENCE NO: 1000-0000-2-3/13-14; PUMP BODY PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: 11/4 X 11/4 IN; STYLE: ONE; CAPACITY: 66.5 L/HR; SPEED: 96 N/M; RATING: 10 BAR;	4	WTP
49	655102	PUMP, RECIPROCATING: TYPE: DIAPHRAGM DOSING; SIZE: DN32 MM; STYLE: ONE; CAPACITY: 143 L/HR; SPEED: 75 N/M; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR 0.55 KW; SPECIFICATION: DMH 254; SUPPL P/N: 957-250-65/957-263-95; REFERENCE NO: 1000-0000-1/6-27; PUMP BODY MATERIAL: AL; HEAD: PVC; DIAPHRAGM: PTFE; VALVE BODY: PVC; VALVE BALL: GLASS; VALVE SEAT: PE; DATA SHEET; DRAWINGS AND MANUALS REQUIRED ON EVERY DELIVERY	4	WTP
50	655305	SET: TYPE: SCREW PUMP BEARING BALL SET; APPLICATION: ANTIFRICTION FUEL OIL AND PROPANE PLANT; SUPPL P/N: SP-KUS-F2-16011	3	BOP MMD
51	659390	PUMP, CENTRIFUGAL: NPSH: 2.6 M; CAPACITY: 30 M3/HR; TOTAL HEAD: 9.9 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68249 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA SHEET AND MANUAL; ONLY PUMP REQUIRED	2	WTP
52	659397	SHEET AND MANUAL; ONLY PUMP REQUIRED MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68250 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA PUMP, CENTRIFUGAL: NPSH: 2.6 M; CAPACITY: 30 M3/HR; TOTAL HEAD: 7.3 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC	2	WTP
53	659398	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 21 M3/HR; TOTAL HEAD: 8.8 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68248 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA SHEET AND MANUAL; ONLY PUMP REQUIRED	2	WTP
54	659839	PUMP, RECIPROCATING: TYPE: DOSING; SIZE: 1 IN; STYLE: ONE; CAPACITY: 310 L/HR; SPEED: 97 RPM; RATING: 20 BARS; SPECIFICATION: RF410.2-310KM; SUPPL P/N: WP353636	12	CPP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
55	659840	PUMP, CENTRIFUGAL: NPSH: 0; CAPACITY: 45 M3/HR; TOTAL HEAD: 9 M; SIZE: 80 X 65 MM; SPEED: 1468 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NKG80-65-160/177; REFERENCE NO: B99071359-P116130002; DRAWINGS; DATASHEET AND MANUAL REQUIRED ON EVERY DELIVERY; PUMP ONLY REQUIRED	2	WTP
56	659841	PUMP, CENTRIFUGAL: NPSH: 0.24 M; CAPACITY: 40 M3/HR; TOTAL HEAD: 1 M; SIZE: 2 X 2 IN; SPEED: 2900 RPM; STAGE: 1; TYPE: HORIZONTAL; SPECIFICATION: DB22; MODEL NO: DB22P-E-FF-5-25; REFERENCE NO: 131741-I14; DRAWINGS; DATASHEET AND MANUAL REQUIRED ON EVERY DELIVERY; PUMP ONLY REQUIRED	2	WTP
57	662122	PUMP, CENTRIFUGAL: NPSH: 5.79 M; CAPACITY: 165.2 CM/HR; TOTAL HEAD: 58.3 M; SIZE: 125 X 100 MM; SPEED: 2960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 125-100-250; MOUNT: HORIZONTAL; SHAFT DIAMETER: 32 MM	2	WTP
58	662175	EVERY DELIVERY SENSING; DIRECTION OF ROTATION: CLOCKWISE FROM SHAFT END; MOUNTING FLANGE: SAEJ744-4HOLE; DATASHEET C/W PUMP CURVE REQUIRED ON MAX PRESSURE: 400BAR; CHARGE: W/C CHARGE PUMP; OPERATION: OPEN CIRCUIT; DISPLACEMENT: 260M3; CONTROL: PRESSURE CONTROL WITH LOAD P/N: A11VLO260DRS/11R-NSD12N00-S; REFERENCE NO: 27338386; AXIAL PISTOL UNIT: SWASHPLATE DESIGN; VARIABLE; NOMINAL PRESSURE: 350BAR; PUMP, ASSEMBLY: TYPE: HYDRAULIC AXIAL PISTOL VARIABLE PUMP A11VLO; APPLICATION: DRUM RECLAIMER RAKE HYDRAULIC POWER PACK; SUPPL	4	C&A MMD
59	662399	PUMP: TYPE: PRESSURE COMPENSATED; SIZE: 100 X 32 MM; CAPACITY: 23 M3/MIN; SPEED: 1420 RPM; RATING: 10 BAR; DRIVER: ELECTRIC MOTOR; POTENTIAL: 380 VACS; CASING MATERIAL: CI; APPLICATION: TERRACE CONVEYOR HYDRAULIC DRIVE AND CYLINDER EXTENSION SYSTEM; SUPPL P/N: 2570-00-03-05	4	C&A MMD
60	662402	PUMP: TYPE: ELECTRO PROPORTIONAL CLOSED LOOP; SIZE: 100 MM; CAPACITY: 230 M3/MIN; SPEED: 1420 RPM; RATING: 20 BARS; DRIVER: ELECTRIC MOTOR; SPECIFICATION: TH-CD-2570-00-03; POTENTIAL: 380 VACS; CASING MATERIAL: CI; APPLICATION: TERRACE CONVEYOR HYDRAULIC DRIVE AND CYLINDER EXTENSION SYSTEM; SUPPL P/N: 2570-00-03-08	5	C&A MMD

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
61	662556	BRACKET: TYPE: PUMP MOUNTING; MATERIAL: STL; DIMENSIONS: LG 100 MM; SPECIFICATION: TH-CD-2572-00-02; APPLICATION: LIMESTONE HYDRAULIC FEEDER DRIVE; SUPPL P/N: 2572-00-02-10	4	C&A MMD
62	662557	PUMP: TYPE: ELECTRO PROPORTIONAL CLOSED LOOP; SIZE: 120 X 90 MM; CAPACITY: 230 M3/MIN; SPEED: 1420 RPM; RATING: 20 BARS; DRIVER: ELECTRIC MOTOR; SPECIFICATION: TH-CD-2572-00-02; POTENTIAL: 400 VACS; CASING MATERIAL: CAST STEEL; APPLICATION: LIMESTONE HYDRAULIC FEEDER DRIVE; SUPPL P/N: 2572-00-02-08	5	C&A MMD
63	662558	SUPPL P/N: 2572-00-02-05 SPECIFICATION: TH-CD-2572-00-02; POTENTIAL: 380 VACS; CASING MATERIAL: CAST STEEL; APPLICATION: LIMESTONE HYDRAULIC FEEDER DRIVE; PUMP: TYPE: FIXED DISPLACEMENT; SIZE: 80 MM; CAPACITY: 0-266 L/MIN; SPEED: 1222 RPM; RATING: 20 BARS; DRIVER: ELECTRIC MOTOR;	5	C&A MMD
64	662570	PUMP: TYPE: FIXED DISPLACEMENT; SIZE: 100 MM; CAPACITY: 176 L/MIN; SPEED: 1480 RPM; RATING: 36 MPA; DRIVER: ELECTRIC MOTOR; SPECIFICATION: TH-CD-2572-00-02; POTENTIAL: 380 VAC; CASING MATERIAL: CAST STEEL; APPLICATION: LIMESTONE HYDRAULIC FEEDER DRIVE; SUPPL P/N: 2572-00-02-31	5	C&A MMD
65	662656	PUMP: TYPE: ANION; SIZE: 80 X 110 MM; CAPACITY: 176 L/MIN; SPEED: 1440 RPM; RATING: 0-6 MPA; DRIVER: BULL GEAR; SPECIFICATION: TH-CD-2599-00-00; POTENTIAL: 400 VAC; CASING MATERIAL: CAST STEEL; APPLICATION: ASH HANDLING LUBRICATION SYSTEM; SUPPL P/N: 2599-00-00-10	5	C&A MMD
66	662714	PUMP: TYPE: LOAD SENSING; SIZE: 1 IN; CAPACITY: 0-365 M3/HR; SPEED: 1189 RPM; RATING: PN10; SPECIFICATION: TH-CD-2592-00-03; CASING MATERIAL: CI; APPLICATION: LIMESTONE; SUPPL P/N: 2592-00-03-16	5	C&A MMD
67	665479	DEVICE: TYPE: BOOSTER PUMP-A; APPLICATION: STACKER HYDRAULIC SYSTEM 0 1EAD41 AP003; SUPPL P/N: 0973 0 07404-1-29; SPECIFICATION: 0973 0 07404-1	5	C&A MMD
68	665481	DEVICE: TYPE: BOOSTER PUMP-B; APPLICATION: STACKER HYDRAULIC SYSTEM 0 1EAD41 AP004; SUPPL P/N: 0973 0 07404-1-30; SPECIFICATION: 0973 0 07404-1	5	C&A MMD
69	675381	PUMP: TYPE: VACUUM; SIZE: 20 X 25 MM; CAPACITY: 18.9 M3/HR; SPEED: 1405 RPM; RATING: 0.005 MBAR; SPECIFICATION: WK1-100622; APPLICATION: SEAL OIL SYSTEM; OEM P/N: WK4-101771P0001; SUPPL P/N: D16B - EX; DRAWING NO: MKQ11AN001 REV 0; LEYBOLD TRIVAC	7	Elec Engineering

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
70	675871	PUMP, CENTRIFUGAL: CAPACITY: 10 M3/HR; TOTAL HEAD: 8 M; SIZE: 40/40; SPEED: 1420 RPM; STAGE: 1; OEM P/N: GME9789236P0002; DRAWING NO: GME9789236P0002 REV 0; WK4-101680R0040-13 REV 0; CO2 EXP DEVICE, NIT 32/160	5	Elec Engineering
71	676398	PUMP, CENTRIFUGAL: NPSH: 5.22 M; CAPACITY: 0.5 M3/HR; TOTAL HEAD: 15.75 M; SIZE: 1 IN; SPEED: 2840 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HIGH PRESSURE; SPECIFICATION: V F002/02 B2D13ES00325AW; MOUNT: VERTICAL; SUPPL P/N: 796008; PUMP AND MOTOR MUST BE SUPPLIED AS AN ASSEMBLY; DRAWINGS; DATASHEET; CERTIFICATE AND ALL MANUALS IS REQUIRED ON EVERY DELIVERY	2	WTP
72	679658	PUMP, CENTRIFUGAL: NPSH: 5.52 M; CAPACITY: 125 M3/HR; TOTAL HEAD: 98 M; SIZE: 80 X 50 MM; SPEED: 2622 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: ANSI B73.1; MOUNT: HORIZONTAL; SUPPL P/N: ETN84-85; REFERENCE NO: 3196 LTI; DENSITY RANGE 1000-1200 KG/M3; PH: 5-8; SITE ALTITUDE: 1504 MASL	2	Ash Dump
73	682783	PUMP, ASSEMBLY: TYPE: WATER; APPLICATION: LOW TEMPERATURE COOLING CIRCUIT FOR ENGINE MODEL 20V4000G63L; SUPPL P/N: X52420300001; REFERENCE NO: 528102903	3	Elec Engineering
74	690213	PUMP, CENTRIFUGAL: NPSH: 0.5 M; CAPACITY: 6000 IPH; TOTAL HEAD: 5 M; SIZE: 25 MM; SPEED: 2720 RPM; STAGE: 1; DRIVER: MOTOR; SPECIFICATION: CTM 25-8 P; REFERENCE NO: 1310-4290	1	BOP MMD
75	691843	PUMP, ROTARY: TYPE: REVERSIBLE LOBE; PORT SIZE: 10 IN; CAPACITY: 391/440 M3/HR; SPEED: 490/540 RPM; RATING: 330 KPA; DRIVER: ELECTRIC MOTOR WITH GEAR; TOTAL HEAD: 25/07 M; SPECIFICATION: VX186-368QD; MOUNT: HORIZONTAL; PLEASE THE FOLLOWING WITH DRAWINGS, DATA SHEET, TEST CERTIFICATE, PERFORMANCE CURVES AND MANUAL	6	WTP
76	693237	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 25 M3/HR; TOTAL HEAD: 30 M; SIZE: 50 X 32 MM; SPEED: 2880 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 32-160; MOUNT: HORIZONTAL; SUPPL P/N: 2125900X0X	4	WTP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
77	698141	PUMP, CENTRIFUGAL: NPSH: 72 M3/HR; CAPACITY: 120 M3/HR; TOTAL HEAD: 7.2 M; SIZE: DISCHARGE DIAMETER: 113 MM; SUCTION DIAMETER: 80 MM; SPEED: 1400 RPM; STAGE: TWO; DRIVER: MOTOR; TYPE: SUBMISSIBLE; OEM P/N: NP3069MT-1 ADAPTIVE 433; MOTOR NUMBER: N3069.16013-10-4BB-W; 1.3 KW; INSTALLATION TYPE: P-SEMI PERMANENT, WET, SELF CLEANING, SEMI-OPEN CHANNEL IMPELLER, IDEAL FOR PUMPING IN WATER WASTE	5	Turbine MMD
78	703878	PUMP, ASSEMBLY: TYPE: SCREW; APPLICATION: OIL; SUPPL P/N: 30-50-ALU-HC	1	
79	706911	PUMP, ASSEMBLY: TYPE: HIGH PRESSURE CENTRIFUGAL; APPLICATION: WATER CANNONS; SUPPL P/N: MTC-A-65/6A-05.1/10.81; REFERENCE NO: 9971660934/000300/05; FLOW RATE: 50.40M3/H; HEIGHT: 290.43M; SPEED: 2975MIN; MAT. NO: 01190081; ZN 3823-219	1	
80	707139	A; CUSAPPA OIL COOLING PUMP INCLUDED REFERENCE PLP20.31.5DO-0351-LGE/GD-N 22.5 CC/REV; CHARGE PUMP INPUT 16/32 18 TEETH SPLINE AND OUTPUT 16/32 9 TEETH SPLINE; CHARGE PUMP MOUNTINGS INPUT / OUTPUT SIDE SAE SPLINE; INPUT SHAFT ON MAIN PUMP ANSI B92.1; 39.5 MM USABLE SPLINE LENGTH; OD 34.5 MM; OUTPUT 16/32 18 TEETH SPLINED; CHARGE PUMP RELIEF VALVE SETTING 150 BAR; INTERNAL GEAR CHARGE PUMP WITH EXTERNAL SUCTION AND ADDITIONAL GEAR OIL COOLING PUMP; 21 TEETH 16/32 PRESSURE 250 BAR; ELECTRO HYDRAULICS CONTROL SOLENOIDS 24V; REVERSIBLE DIRECTION; FORWARD RELIEF VALVE SETTING 300 BAR; REVERSE APPLICATION: HYDRAULIC DRIVE; MOUNT: FLANGE SAE C; POWER 98 KW AND TORQUE 305 NM AT CONTINUOUS SPEED 3100 RPM ON CONTINUOUS PUMP, ROTARY: TYPE: HYDRAULIC; PORT SIZE: 1 IN; CAPACITY: 75 CM2; SPEED: VARIOUS; RATING: 420 BAR; DRIVER: ELECTRIC MOTOR;	1	
81	707723	PUMP, CENTRIFUGAL: NPSH: 1.8 M; CAPACITY: 55 M3/HR; TOTAL HEAD: 83 M; SIZE: 80 X 50 MM; SPEED: 2960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUCTION END; SPECIFICATION: DIN 24256; DIN EN 22858; MOUNT: FLANGE B1; SHAFT DIAMETER: 55 MM; SUPPL P/N: KRC-50/250-308/GN; REFERENCE NO: 1293781/01-1293786/01; IMPELLER SIZE: 253 MM; TOP-DISCHARGE; DATASHEET INCLUDE PUMP CURVE AND TEST CERTIFICATE TO BE INCLUDED IN EVERY DELIVERY; EVERY ITEM SHOULD BE DELIVERED WITH THE LATEST DOCUMENT REVISIONS	1	

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
82	708340	PUMP, ROTARY: TYPE: HYDRAULIC; PORT SIZE: 1-1/2 IN; CAPACITY: 260 R/KWHR; SPEED: 1800 RPM; RATING: 260 R/KWHR; APPLICATION: PISTON; SPECIFICATION: ISO 9001; MOUNT: FLANGE (4) HOLE; MANUF P/N: 4102885.4; DRAWING NO: AL-5344-00-001 REV 0; REFERENCE NO: 0.84/10540/2; DRUM RECLAIMER - R6280; 11026064	1	
83	709509	PUMP, CENTRIFUGAL: NPSH: 3 M; CAPACITY: 385 M3/HR; TOTAL HEAD: 50.9 M; SIZE: 200 X 150 MM; SPEED: 985 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; SPECIFICATION: 8/6 EE-AH; SHAFT DIAMETER: 80 MM	1	
84	711764	PUMP: TYPE: ROTARY GEAR; SIZE: 1 IN; CAPACITY: 50 L/MIN; SPEED: 1440 RPM; RATING: 1.1 KW; DRIVER: ELECTRIC MOTOR; APPLICATION: RECIRCULATION PUMP LUBE OIL; SUPPL P/N: HGBX-100L	1	
85	713073	PUMP, CENTRIFUGAL: NPSH: 2.51 M; CAPACITY: 170 M3/HR; TOTAL HEAD: 83 M; SIZE: 51.86 KW; SPEED: 2970 RPM; STAGE: SINGLE; DRIVER: MOTOR 7.5 KW; TYPE: KRC-100B/250-308/GN; SPECIFICATION: KRC; MOUNT: BASE PLATE; SUPPL P/N: 1289603/03; REFERENCE NO: 1289603/03-2 4 0LCL21/22; KRC 100B/250-308/GN; SINGLE STAGE: Q 170M3/H; HEAD 74.5 M; POWER 51.86 KW; TS 100 DEGREE CELCIUS; PT 30 BAR; PS 20 BAR; WEIGHT 150 KG; AP001; SINGLE STAGE; PS 20	1	
86	717906	PUMP, CENTRIFUGAL: NPSH: 0 M; CAPACITY: 25200 L/HR; TOTAL HEAD: 25 M; SIZE: 165 X 25 MM; SPEED: 2684 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; REFERENCE NO: AH400227	1	
87	717907	PUMP, CENTRIFUGAL: NPSH: 1.6 M; CAPACITY: 24000 L/HR; TOTAL HEAD: 40 M; SIZE: 200 X 40 MM; SPEED: 2900 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 7.5 KW 2P; TYPE: SLURRY; REFERENCE NO: SR11010021-1NP185	1	
88	717908	PUMP, ASSEMBLY: TYPE: VACUUM; APPLICATION: DEWATERING GYPSUM	1	
89	718025	TYPE: SLURRY; REFERENCE NO: WP51825 PUMP, CENTRIFUGAL: NPSH: 3 M; CAPACITY: 385 M3/HR; TOTAL HEAD: 46 M; SIZE: 8/6 EE-AH MM; SPEED: 985 RPM; STAGE: 1; DRIVER: MOTOR;	1	

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
90	718290	PUMP: TYPE: SHAFT; SIZE: DN 4 X 6 MM; CAPACITY: 290 ML/MIN; SPEED: 5 RPM; RATING: 5 W; DRIVER: MOTOR; POTENTIAL: 115/230 V; FURNISHED ITEMS: HAS A CABLE WITH 3 WIRE CONNECTION; CASING MATERIAL: ALLUMINIUM / STEEL; APPLICATION: RECIPROCATING PUMP USED AT SMOKE STACK COOLER; SUPPL P/N: 83234954; V=115/230, HZ=50/60 COIL; POWER / RATING: 5 W; SUPPLIERS TO PROVIDE TECHNICAL DATASHEET	1	
91	719006	PUMP, CENTRIFUGAL: NPSH: 4.9 M; CAPACITY: 110 M3/HR; TOTAL HEAD: 30 M; SIZE: 100 X 80 MM; SPEED: 1460 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 22 KW; 1460 RPM; TYPE: SLURRY; SPECIFICATION: ROWA-UV80.32-TMU 160L4-250	1	
92	721434	PUMP, CENTRIFUGAL: NPSH: 1.1 M; CAPACITY: 15 M3/HR; TOTAL HEAD: 70 M; SIZE: 50 X 32 MM; SPEED: 2935 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; MOUNT: VERTICAL; SHAFT DIAMETER: 42 MM; MODEL NO: LSN50-32-250-S1VL11102	1	
93	721507	PUMP, CENTRIFUGAL: NPSH: 4.5 M; CAPACITY: 720 M3/HR; TOTAL HEAD: 66 M; SIZE: 200 X 250 MM; SPEED: 1485 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: DRAINAGE; SPECIFICATION: ISO 5199/EN 25199; MOUNT: HORIZONTAL; SHAFT DIAMETER: 55 MM; MODEL NO: LS-200-500-S2VL1-20004	5	BOP MMD
94	723403	PUMP: TYPE: 2 STAGE; SIZE: DN 125; CAPACITY: 208 M3/HR; SPEED: 1470 RPM; RATING: 16 BARS; SUPPL P/N: TP 125-420/4-A -F-B-BQQE;	1	
95	724325	PUMP: TYPE: SUBMERSIBLE DRAINAGE; SIZE: HT 1180 X WD 900 X DIA 610; CAPACITY: 576 M3/HR; SPEED: 2965 RPM; RATING: 148-400 A; DRIVER: ELECTRIC MOTOR; POTENTIAL: 95 KW; FURNISHED ITEMS: FLOAT SWITCH; CASING MATERIAL: CI; APPLICATION: DIRTY WATER; SUPPL P/N: PD524400-INT; DN 100-150; MAIN BEARING: TWO SINGLE-ROW ANGULAR CONTACT BALL BEARINGS. SUPPORT BEARING: CYLINDRICAL SINGLE-ROW ROLLER BEARING WITH C3 CLEARANCE. CASTED PARTS: CAST IRON, MOTOR SHAFT: SS, IMPELLER: HARD-ON, DIFFUSERS: NITRATE RUBBER, SCREWS AND NUTS: SS	5	FGD MMD
96	728149	PUMP, ROTARY: TYPE: GEAR; PORT SIZE: 19 X 13 MM; CAPACITY: 25.5 L/MIN; SPEED: 1500 MM; RATING: 7.5 KW; SPECIFICATION: ISO; SUPPL P/N: GHP2-D-25; GHP2-D-25	6	Turbine MMD

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
97	729091	PUMP: TYPE: HP BYPASS HYDRAULIC; SIZE: 95 MM; CAPACITY: 19 M3; SPEED: 1800 RPM; RATING: PN 280; SUPPL P/N: D951Z2205/A; DRAWING NO: HZ-R18A1-RKP019SM; 19 CCM/REV	1	
98	729474	PUMP, CENTRIFUGAL: NPSH: 15.1 M; CAPACITY: 212.7 CM3/HR; TOTAL HEAD: 18.1 M; SIZE: DN80; SPEED: 2900 RPM; STAGE: PN 10; DRIVER: 5.5 KW; SUPPL P/N: 00PPG000032300; MODEL NO: VEROTWIN-DPL 80/145-5,5/2	1	
99	729480	PUMP, CENTRIFUGAL: NPSH: 12.7 M; CAPACITY: 84.1 CM3/HR; TOTAL HEAD: 15 M; SIZE: DN65; SPEED: 2900 RPM; STAGE: PN 10; DRIVER: 2.2KW; TYPE: VEROTWIN-DPL 65/120(111.5)-2,2/2; SUPPL P/N: 00PPG00005100; MODEL NO: VEROTWIN-DPL 65/120(111.5)-2,2/2	1	
100	729519	SUPPL P/N: NK 80-200/211 A2F2AE-SBQQE; MODEL NO: B99263422P117190001 PUMP, CENTRIFUGAL: NPSH: 8 M; CAPACITY: 86 CM3/HR; TOTAL HEAD: 16 M; SIZE: 211 MM; SPEED: 1475 RPM; STAGE: PN 16; DRIVER: 7.5 KW;	1	
101	729520	PUMP, CENTRIFUGAL: NPSH: 2.3 M; CAPACITY: 92 CM3/HR; TOTAL HEAD: 54 M; SIZE: 397 MM; SPEED: 1479 RPM; STAGE: PN 16; DRIVER: 30KW; SUPPL P/N: NK80-400/397 A2F2BE-SBQQE; MODEL NO: B99315768P117370003	1	
102	729524	PUMP, CENTRIFUGAL: NPSH: 3.26 M; CAPACITY: 191 CM3/HR; TOTAL HEAD: 30.9 M; SIZE: 340 MM; SPEED: 1470 RPM; STAGE: PN 16; DRIVER: 22KW; SUPPL P/N: TP 125-340/4 A-F-B-BAQE; MODEL NO: A98858623P218030002	1	
103	729526	PUMP, CENTRIFUGAL: NPSH: 4.08 M; CAPACITY: 290 CM3/HR; TOTAL HEAD: 41 M; SIZE: 450 MM; SPEED: 1480 RPM; STAGE: PN 16; DRIVER: 45KW; SUPPL P/N: TP 150-450/4 A-F-B-BAQE; MODEL NO: A97927106P317010001	1	
104	729527	PUMP, CENTRIFUGAL: NPSH: 3.81 M; CAPACITY: 317 CM3/HR; TOTAL HEAD: 46 M; SIZE: 520 MM; SPEED: 1485; STAGE: PN 16; DRIVER: 55 KW; SUPPL P/N: TP 150-520/4 A-F-B-BAQE; MODEL NO: A97927105P316310	1	

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
105	731037	PUMP: TYPE: FOAM INDUCTION MOTOR PUMP; SIZE: FD6000-09S1-03-290; CAPACITY: 500-6000; SPEED: 1440 RPM; RATING: 3 PCT ADMIXTURE; DRIVER: MOTOR; CASING MATERIAL: FPM CUAL 10NI5FE5; SUPPL P/N: FD6000/3-PP-S; PTFE 1.4571; KERAMIK; ALMG3SI; STAHL; APPLICATION: FIRE WATER SYSTEM; UNIT TO COME AS COMPLETE ASSEMBLY PARTS: WATER MOTOR (CAST AL, HC COATED), PROPORTIONING PUMP (SS); PIPEWORK (SS) AND SUPPORT FRAME AS SHOWN IN MANUAL	1	
106	731845	PUMP: TYPE: EXTERNAL GEAR; CAPACITY: 11.3 CM3/REV; SPEED: 3000 RPM; RATING: 250 BARS; DRIVER: ELECTRIC MOTOR; CASING MATERIAL: ALUMINIUM; APPLICATION: HYDRAULIC SYSTEM; SUPPL P/N: MNR0510525009; REFERENCE NO: AZPF11011RCB20MB;	1	
107	750947	APPLICATION: BFP MIN-FLOW SKID HPU; SPECIFICATION: ISO; SUPPL P/N: 752-00-009; MODEL NO: ALP2-D-9 PUMP, ROTARY: TYPE: GEAR PUMP; PORT SIZE: 13 X 13 MM; CAPACITY: 9.1 L/MIN; SPEED: 4000 RPM; RATING: 4 KW; DRIVER: MOTOR;	4	Boiler MMD
108	751347	PUMP: TYPE: HYDRA-CELL D10; SIZE: ¾" 28 L/MIN; CAPACITY: 28 L/MIN; SPEED: 1410 RPM; RATING: 8.26/4.75 A; APPLICATION: COURSE ASH CONVEYOR WASH BOX	4	C&A MMD
109	761800	PUMP, CENTRIFUGAL: NPSH: 4.3 M; CAPACITY: 180 M3/HR; TOTAL HEAD: 67 M; SIZE: 125 X 80 MM; SPEED: 2965 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: LSN125-80 250 S1VL1; MOUNT: HORIZONTAL; SUPPL P/N: 61220402	3	WTP
110	762297	PUMP, ASSEMBLY: TYPE: MAIN PUMPS ASSEMBLY; APPLICATION: HYDRAULIC PUMP FOR COAL STACKER; OEM P/N: 2625-ACH-SP-054; DRAWING NO: ACH-2625-054; REFERENCE NO: ACH-SP-054; TORQUE 0.88 NM; MOUNTING SAE J744; WEIGHT 40KG, ROTATION CLOCKWISE/COUNTERCLOCKWISE FLANGE SIZE 25.4MM; SHAFT SPLINED; INPUT SPEED 4250RPM; PRESSURE 0.7BAR, SENSOR VOLT 4.5V-8.5V TEMPERATURE RANGE -40 TO 110°C; CURRENT 12 -20 MA	4	C&A MMD
111	675656	PUMP: TYPE: H2 SEAL OIL; SIZE: 150 MM; CAPACITY: 320-18 MM2/S; SPEED: 1450 RPM; RATING: 4 BAR; SPECIFICATION: WK1-100622; APPLICATION: SEAL OIL SYSTEM; OEM P/N: WK4-101676P0001; MANUF P/N: 675656; PACKAGE NO: MKW42AP001; MKW46AP001	6	Elec Engineering

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
112	675382	PUMP: TYPE: VACUUM SEAL OIL; SIZE: 20 MM; CAPACITY: 120 L/MIN; SPEED: 950 RPM; RATING: 10 BAR; SPECIFICATION: WK1-100622; APPLICATION: GENERATOR AUX SEAL OIL SYSTEM; OEM P/N: SNGS-120-E-R-42-U12.1-W32 -ATEX; WK4-101675P0001; DRAWING NO: WK1-100622/MKW36AP001	3	Elec Engineering
113	774992	PUMP: TYPE: KNF DIAPHRAM VACCUM PM29994-86; SIZE: N/A; CAPACITY: 2.5 BAR; SPEED: 6.5 L/MIN; RATING: 115/230 V; CASING MATERIAL: VITON (PVDF); OEM P/N: PU4292-N811; FREQUENCY: 50 HZ; 1.5/0.75A; 60W; MAX FLOW RATE: 5-6 NI/MIN	1	
114	766504	PUMP: TYPE: ROTARY DRUM; SIZE: 41 MM; CAPACITY: 0 TO 80 L/MIN; SPEED: 3000 RPM; RATING: 0 TO 6 BAR; SUPPL P/N: L0122-206; MODEL NO: PVDF 41-L-SL-1200MM ; USE IN CHEMICAL TRANSFER FROM 1000L FLOWBINS OF SODIUM HYPOCHLORITE 12-15% COMPLETE WITH ALL ACCESSORIES.E. HOUSING: PVDF, IMPELLER: ETFE, DRIVE SHAFT: HASTELLOY C (HC-4)(2.4610). INCLUDE STORAGE BRACKET HOSE CONNECTION: 25MM HOSE TAIL, G 1¼" MALE THREADED. HOSE: VERSACHEM -UHMWPE -25MM, LENGTH-10M. CLAMP HOSE STEPLESS 35.8-39.0 MOTOR: MA I15-S 575W, 230V, ENCLOSURE: IP54-EXTREMELY HARSH ENVIRONMENTS & FUMING LIQUIDS. NOZZLE PVDF/FPM- 1" HOSE CON	1	BOP MMD
115	766503	PUMP: TYPE: ROTARY DRUM PUMP; SIZE: 41 MM; CAPACITY: 0 TO 80 L/MIN; SPEED: 3000 RPM; RATING: 0 TO 6 BAR; SUPPL P/N: L0151-158; MODEL NO: RE SS 41-L-MS-1200MM; USE IN CHEMICAL TRANSFER FROM 1000L FLOWBINS OF SULPHURIC ACID 98% & PHOSPHORIC ACID 85% WITH ALL ACCESSORIES. HOUSING: STAINLESS STEEL; IMPELLER: ETFE, DRIVE SHAFT: STAINLESS STEEL (1.4571), INCLUDE STORAGE BRACKET HOSE CONNECTION: 25MM HOSE TAIL, G 1¼" MALE THREADED. HOSE: VERSACHEM -UHMWPE -25MM, LENGTH-10M. CLAMP HOSE STEPLESS 35.8-39.0 MOTOR: MA I15-S 575W, 230V, ENCLOSURE: IP54-EXTREMELY HARSH ENVIRONMENTS & FUMING LIQUIDS. NOZZLE PVDF/FPM- 1" HOSE CON.	1	BOP MMD
116	675381	PUMP: TYPE: VACUUM; SIZE: 20 X 25 MM; CAPACITY: 18.9 M3/HR; SPEED: 1405 RPM; RATING: 0.005 MBAR; SPECIFICATION: WK1-100622; APPLICATION: SEAL OIL SYSTEM; OEM P/N: WK4-101771P0001; SUPPL P/N: D16B - EX; DRAWING NO: MKQ11AN001 REV 0; LEYBOLD TRIVAC	12	Turbine MMD

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
117	676225	STATOR: TYPE: WATER PUMP; MANUF P/N: CHN-B80-250/01G-W20; WK4-101721P0001; DRAWING NO: WK4-101677R0010/26, 32 REV C; REFERENCE NO: CNH-B80-250; COOLING WATER UNIT	6	Elec Engineering
118	675657	PUMP: TYPE: AIR SEAL OIL; SIZE: 150 MM; CAPACITY: 210 L/MIN; SPEED: 2900 RPM; RATING: 12 BAR; SPECIFICATION: WK1-100622; APPLICATION: GENERATOR AUX SEAL OIL SYSTEM; OEM P/N: WK4-101674P0001; MANUF P/N: 675657; PACKAGE NO: MKW21AP001; MKW22AP001; MKW23AP001	6	Elec Engineering
119	623403	PUMP, CENTRIFUGAL: NPSH: 2.17 M; CAPACITY: 230.06 M3/HR; TOTAL HEAD: 26.3 M; SIZE: 200 X 150 MM; SPEED: 1482 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MCP200-150 315VD; MOUNT: HORIZONTAL; REFERENCE NO: 9972457229/200	1	BOP MMD
120	725753	PUMP, CENTRIFUGAL: NPSH: 13.2 M; CAPACITY: 2040 M3/HR; TOTAL HEAD: 220 M; SIZE: 450 X 350 MM; SPEED: 1485 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR U500/160 6600 V 4P 1800 KW; 1485 RPM; TYPE: DOUBLE SUCTION HORIZONTAL SPLIT CASING; MOUNT: HORIZONTAL; SHAFT DIAMETER: 120 MM	2	FGD MMD
121	585006	MKW36: PUMP; P/N WK4-101675P0001 PUMP: TYPE: SCREW; SIZE: 65 X 50 MM; CAPACITY: 120 L/MIN; SPEED: 950 RPM; RATING: 10.5 BAR; DRIVER: ELECTRIC MOTOR; CASING MATERIAL: EN-GJS-400-15; APPLICATION: SEAL OIL; MANUF P/N: SNGS120ER42U12.1-W32/DS41A	6	Elec Engineering
122	634487	MKW42/46: PUMP; P/N WK4-101676P0001 PUMP: TYPE: SCREW; SIZE: 65 X 50 MM; CAPACITY: 55.9-57.6 L/MIN; SPEED: 1450 RPM; RATING: 4 BAR; DRIVER: MOTOR; APPLICATION: H2 SEAL OIL; SUPPL P/N: SNGS80ER36U12.1-W32/DS35A	6	Elec Engineering
123	762659	PUMP, CENTRIFUGAL: NPSH: 1.9 M; CAPACITY: 171 M3/HR; TOTAL HEAD: 40.87 M; SIZE: 125 X 100 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 100-400; MOUNT: HORIZONTAL; REFERENCE NO: 396.100/2	3	WTP
124	762675	PUMP, CENTRIFUGAL: NPSH: 2.6 M; CAPACITY: 330 M3/HR; TOTAL HEAD: 56 M; SIZE: 200 X 150 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: LS150-500 S1VV1; MOUNT: HORIZONTAL; REFERENCE NO: 60353805	4	WTP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
125	721951	PUMP, CENTRIFUGAL: NPSH: 2.3 M; CAPACITY: 385 M3/HR; TOTAL HEAD: 10.02 M; SIZE: 200 X 250 MM; SPEED: 960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 200-315; MOUNT: HORIZONTAL; REFERENCE NO: C03627/9	3	WTP
126	687431	PUMP, CENTRIFUGAL: NPSH: 1.2 M; CAPACITY: 171 M3/HR; TOTAL HEAD: 75.6 M; SIZE: 200 X 150 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK150-500; MOUNT: HORIZONTAL; REFERENCE NO: 506388/90	3	WTP
127	693239	PUMP, CENTRIFUGAL: NPSH: 4.28 M; CAPACITY: 98.59 M3/HR; TOTAL HEAD: 58.32 M; SIZE: 100 MM; SPEED: 2948 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUBMERSIBLE; SPECIFICATION: KRTD 80-315/372 UG1-S; MODEL NO: UGI449273	2	WTP
128	761799	PUMP, CENTRIFUGAL: NPSH: 5.52 M; CAPACITY: 120.03 M3/HR; TOTAL HEAD: 107.8 M; SIZE: 100 X 65 MM; SPEED: 2985 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MCP100-065 315VD; MOUNT: HORIZONTAL; SUPPL P/N: 2135903615	3	CPP
129	757041	PUMP: TYPE: LIQUID RING VACUUM; SIZE: 5 X 5 IN; CAPACITY: 900 M3/HR; SPEED: 970 RPM; RATING: 33 MBAR ABS; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MVT 410-260	3	WTP
130	620425	AERATOR: TYPE: SURFACE; MODEL NO: K1.8-NA5NA; MATERIAL: SS 304L; FOR USE AT SEWAGE TREATMENT PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	3	STP
131	620447	COMPRESSOR, AIR: CAPACITY: 29.10 M3/HR; DISCHARGE PRESSURE: 10 BAR; POTENTIAL: 400 VAC; POWER: 4 KW; CURRENT: 10 A; DRIVER: V-BELT; VOLUME CAPACITY: 200 L; REFERENCE NO: 1676420001; 004134; TO BE SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST; 17.13 SCFM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	2	STP

CONTROLLED DISCLOSURE

Item No	Material Number	Equipment Short description	Total Qty	Plant Area
132	772681	PUMP, CENTRIFUGAL: NPSH: 2.3 M; CAPACITY: 17 M3/HR; TOTAL HEAD: 21.5 M; SIZE: 2x1 1/4 IN; SPEED: 2900 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-50-32-160; SHAFT DIAMETER: 24; DRAWING NO: 67981; SERIAL NO. 13.0437/1; ON EVERY DELIVERY, PLEASE PROVIDE DRAWINGS, DATA SHEET AND MANUAL	2	WTP
133	TBC	rated flow:10m3/hr, rated head:27.1 m, CM10-2 A-R-A-V-AQQV	6	CPP
134	TBC	rated flow:10m3/hr, rated head:40.5 m, CM10-3 A-R-A-V-AQQV	6	CPP
135	TBC	rated flow:3.1m3/hr, rated head:41.5 m, CM10-3 A-R-E-AOOE F-A-A-N	2	STP
136	643443	PUMP, CENTRIFUGAL: SIZE: DN32; STAGE: SINGLE; DRIVER: ELECTRIC MOTOR; OEM P/N: NIT32-160/01U5A-W4-19/200; GAS COOLING SYSTEM	2	Elec Engineering
137	585005	PUMP: TYPE: SCREW; SIZE: 80 X 65 MM; CAPACITY: 210 L/MIN; SPEED: 2900 RPM; RATING: 13.8 BAR; DRIVER: ELECTRIC MOTOR; CASING MATERIAL: EN-GJS-400-15; APPLICATION: SEAL OIL; MANUF P/N: SNGS210ER40U12.1-W32/DS38A	2	Elec Engineering
138	681526	PUMP, FUEL: TYPE: DIESEL; FLOW RATE: 0.35 L/S; PRESSURE RATING: 1.5 BAR; INLET SIZE: 83 MM; CONNECTION TYPE: BOLT; SPECIAL FEATURES: O-RING 00429083000; APPLICATION: LOW PRESSURE DELIVERY PUMP FOR ENGINE MODEL 20V4000G63L; SUPPL P/N: X52808100004; REFERENCE NO: 528102903	2	Elec Engineering
139	682784	PUMP, FUEL: TYPE: HAND PRIMING; FLOW RATE: 0.35 L/S; PRESSURE RATING: 1.5 BAR; INLET SIZE: 30 MM; CONNECTION TYPE: THD; SPECIAL FEATURES: O-RING 00429083000; APPLICATION: DIESEL FUEL ENGINE TYPE 20V4000G63L; SUPPL P/N: X54808800001; REFERENCE NO: 528102903	3	Elec Engineering
140	682785	PUMP, FUEL: TYPE: HP FUEL; FLOW RATE: 0.35 L/S; PRESSURE RATING: 1800 BAR; INLET SIZE: 130 MM; CONNECTION TYPE: BOLT; SPECIAL FEATURES: O-RING 700429130003; APPLICATION: ENGINE MODEL 20V4000G63L; SUPPL P/N: X59507300003; REFERENCE NO: 528102903	3	Elec Engineering

4. Acceptance

This document has been seen and accepted by:

CONTROLLED DISCLOSURE

Name	Designation
Percy Masethe	Maintenance senior Advisor
Sam Motluguneng	Engineer Prof Engineering
Thabani Mbuyazi	Maintenance Technician
Lunga Ntanzu	Maintenance Technical support services Manager
Sakhile Mazibuko	Maintenance Boiler Manager
Abel Vuma	Maintenance Group Manager

5. Revisions

Date	Rev.	Compiler	Remarks
August 2026	1	Percy Masethe	First Issue

6. Development Team

The following people participated in the development of this document:

- a) Thabani Mbuyazi- Maintenance Technician
- b) Percy - Maintenance Senior Advisor
- c) Sam Motluguneng- Engineer Prof Engineering

7. Acknowledgements

The undersigned hereby acknowledge that they have reviewed and approved the contents of this document and confirm their commitment to comply with the requirements, roles, and responsibilities defined herein.

Name	Designation
Thabani Mbuyazi	Maintenance Technician
Mbuyiselo Majenge	Materials Management Manager (Acting)
Sam Motluguneng	Engineer Prof Engineering
Lunga Ntanzu	Maintenance Technical support services Manager

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