

	Specification	Matimba Power Station
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Title: **Supply and delivery of SO₃ Spares to Matimba Power Station**

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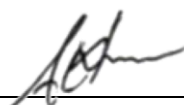
Compiled by



J L van der Walt
Senior Technician

Date: 12 November 2024

Supported by



R Nel
Boiler Engineering Manager

Date: 2024/11/12

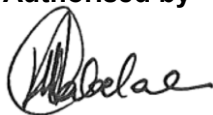
Supported by



B Chiloane
Mechanical Maintenance Manager

Date: 2024/11/12

Authorised by



M Mabelane
Middle Manager
Maintenance

Date: 2024/11/19

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1. Introduction

Matimba Power Station Management has decided to outsource the supply and delivery of SO₃ plant spares to an experienced, well-established and qualified Service Provider.

This document describes the detail of the applicable requirements, scope of work, specifications, terms & conditions as well as the criteria to qualify for the tender.

2. Supporting Clauses

2.1 Scope

This document sets out the detailed User Scope of Work requirements necessary for the supply and delivery of SO₃ spares to Matimba Power Station.

2.1.1 Purpose

The purpose of this document is to define a User Scope of Work requirement based on which a supply contract will be established between the Employer and the supplier.

Matimba Power Station is expected to perform at EAF>722, PCLF<9.79 and UCLF<15.48, and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified user requirements scope of work.

2.1.2 Applicability

This document shall apply to the user requirements of supply of SO₃ spares to Matimba Power Station.

2.1.3 Effective date

Authorisation date.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] 32 – 1034: Procurement and Supply Chain Management Procedure

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[3] 32- Preferential Procurement Policy Framework Act 5 of 2000

2.2.2 Informative

[1]. 240-62072907: Eskom Delegation of Authority Policy.

[2]. 240-165040111: Supplier Terms Policy

[3]. 32-1033: Procurement and Supply chain Management Policy

[4]. 240-141007195: Electronic Signature usage Policy

[5]. 240-156280553: Procedure for signing documentation electronically using the Eskom electronic signing system.

[6]. 240-168966153: Generation Tender Technical Evaluation Procedure

2.3 Definitions

2.3.1. Ad hoc: A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.

2.3.2. *Contractor*: Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.

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

2.3.4. Employer: Eskom or Eskom Generation, Matimba Power Station.

2.3.5. Parties: The Employer and the Contractor.

2.3.6. Supply Manager: The Employer's representative in regard to the supply contract agreement.

2.3.7. Task Order: The Service Manager's instruction to perform a task. SAP PM orders will also be used as task orders.

2.4 Abbreviations

Abbreviation	Description
NECSC	Supply Contract Document
NEC3	New Engineering Contract
URS	User Requirement Specification.
CFT	Cross Functional Team
OEM	Original Equipment Manufacturer.

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When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the system.

PCM	Process Control Manual.
PDF	Portable Document Format.
QCP	Quality Control Plan.
SAP	Systems, Applications Products.
TET	Technical Evaluation Team
SME	Subject Matter Expert
SO ₃	Sulphur trioxide

2.5 Roles and Responsibilities

2.5.1 Supply Manager

1. Co-ordinating and Manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manage and maintain records and correspondence between the employer and service provider.
6. Ensures that the service provider comply with the terms and conditions of the contract.
7. Keep the records of the contract for history and audit purposes.

2.5.2 Contractor

1. Supply of spares service to the *Employer* in accordance with Matimba Power Station procurement process as per spares URS.
2. Ensure that quality of spares delivered in Process for Monitoring in accordance with the Scope of Work as stipulated within Matimba Power Station spares URS.
3. The supplier shall ensure that all spares are accompanied by their related user specification as per their URS

2.6 Process of Monitoring

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control (QC) by an End User to ensure that description of delivered items complies with that of the order.

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2.7 Related/Supporting Documents

[1]. NEC 3 Supply Contract.

3. Document Content

3.1 General

3.1.1 Adherence to Eskom General Policies & Standards

The Supplier shall ensure that their Employees delivering spares to site comply with Eskom's policies and site regulations and Eskom's Life Saving Rules.

3.1.2 Quality Standard

The Supplier shall ensure that the quality of spares delivered to Matimba is as per ISO 9001 Standard to support Matimba's objective of improving performance.

3.1.3 Document Control

All contractual communication between the *Employer* and *Supplier* shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

3.1.4 Contractual Meetings

a) ADHOC Meetings can be scheduled and agreed upon.

3.1.5 Correspondence

All verbal and non – verbal communication between the *Employer* and *Supplier* shall be communicated in an electronic format which can be read or copied.

3.1.6 Task Order

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval of the *Employer*.

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval an official SAP Task Order Number being supplied by the *Employer* to the *Contractor*

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3.2 Scope of Work Information

NO	Material	Description	Unit of measure	Quantity
10	667442	TRANSMITTER, FLOW: TYPE: THERMAL MASS FLOW METER; RANGE: 0-1000 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: DILUTION AIR FLOW ON THE SO ₃ PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; INTEGRAL STYLE; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; SERIAL NUMBER & TRANSMITTER RANGE MUST BE INDICATED ON THE TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE TRANSMITTER BODY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	30
20	667408	TRANSMITTER, FLOW: TYPE: THERMAL MASS FLOW METER; RANGE: 0-2000 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: BIAS AIRFLOW ON THE SO ₃ PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; THE SERIAL NUMBER & TRANSMITTER RANGE MUST BE INDICATED ON TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE TRANSMITTER BODY; INTEGRAL STYLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	30
30	667449	TRANSMITTER, FLOW: TYPE: PROCESS AIRFLOW; RANGE: 0-4500 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: SO ₃ PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; INTEGRAL STYLE; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; THE SERIAL NUMBER & TRANSMITTER RANGE MUST BE INDICATED ON TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE BODY; VENDORS ARE PERFORMING AGAINST THE CORRECT REVISION NUMBER (IF APPLICABLE).	EA	30
40	250390	UNIT: TYPE: MECHANICAL; APPLICATION: LOBE BLOWER SO ₃ ; REFERENCE NO: GACLDPA 4LP; SUTORBILT MAX RPM 3600; LOBE BLOWER DRIVEN BY AN ELECTRIC MOTOR; USED IN THE SO ₃ PLANT ON THE BIAS SYSTEM	EA	20
50	256470	VALVE, BUTTERFLY: TYPE: BARE SHAFT; VALVE SIZE: 100 MM; DESIGN RATING: 2 MPA; TEMPERATURE RATING: -60 TO 200 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CS; FACE TO FACE LENGTH: 56 MM; OPERATED: ACTUATOR; APPLICATION: BIAS AIR CONTROL BLOWER; SPECIFICATION: 12178; STYLE: WAFER; OEM P/N: 4WWN6 PVB, OEM: PALTECHNOLOGIES; DRAWING NO: PRJ 12001 REV 1; REFERENCE NO: AR25; SO00076; USED AT SO ₃ PLANT	EA	25

CONTROLLED DISCLOSURE

60	582534	CONTROLLER: TYPE: SILICON CONTROLLED RECTIFIER POWER CONTROLLER; RANGE: 0-175 A; RATING: 380 V 175 A; APPLICATION: SO3 BIAS HEATER; OUTPUT: 0-175 A; MOUNTING: PANEL ANY DIRECTION; INPUT: 4-20 MA; MODEL NO: 3027; CONTROL CONCEPTS; COMPLETE WITH COOLING FAN; CONTROL SIGNAL: 3 PHASE 50/60 HZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	25
70	250401	COUPLING, SHAFT: MATERIAL: MS; SUPPL P/N: SO00010; DRAWING NO: PRJ.12001 REV 1; REFERENCE NO: MMA; FOR SO3 PLANT 37 KW MOTOR/PROCESS AIR BLOWER	EA	30
80	500934	FILTER, AIR: TYPE: AIR BLOWER; DIMENSIONS: ID 102 X OD 267 X LG 267 MM; MATERIAL: PLASTIC; MICRON: 15; APPLICATION: AIR CLEANER; SHAPE: CYLINDRICAL; REFERENCE NO: ECC105004; FOR SUTORBILT4L; DURALITE; NON-METALLIC; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100
90	500933	FILTER, AIR: TYPE: AIR BLOWER; DIMENSIONS: ID 211 X OD 324 X LG 600 MM; MATERIAL: METAL; MICRON: 15; APPLICATION: AIR CLEANER; SHAPE: CYLINDRICAL; REFERENCE NO: ECG13-2000; FOR SUTORBILT 7L; DONALDSON; DURALITE METALLIC; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100
100	656314	FILTER, AIR: TYPE: SO3 PULSATION; DIMENSIONS: ID 213 X OD 324 X LG 660 MM; MATERIAL: FIBER; MICRON: 0.5; EFFICIENCY: 99 PCT; SHAPE: ROUND; OEM P/N: P145891-015-436; 21 CM3; TEMPERATURE LIMIT: 82 DEG C; END CAP CONSTRUCTION: OPEN/CLOSED WITH BOLT HOLE; CONSTRUCTION: GALVANIZED; PLEAT HEIGHT: 50.8 MM; ANTI STATIC; NO; FLAME RETARDANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECTDRAWING REVISION NUMBER (IF APPLICABLE).	EA	480
110	582533	ELEMENT, HEATER: TYPE: PROCESS AIR; POTENTIAL: 380 V; POWER: 70 KW; MATERIAL: INCONEL; MANUF P/N: EJ400/MPS/70; TO BE SUPPLIED COMPLETE WITH TERMINAL BOX & 2 THERMOCOUPLES; DIMENSIONS: LENTH 206CM; FLANGE DIA 25MM THICK; FLANGE HOLES= 90-95MM PCD; ADAPTOR PLATE= 130MM THICK; NUMBER OF HOLES= 12 OFF SIZE 24MM	EA	25
120	250385	GASKET, PRE-CUT: TYPE: BURNER FLANGES IN THE SO3 PLANT; MATERIAL: LYTHERM; SHAPE: RD; SUPPL P/N: SO00081; DRAWING NO: PRJ.12001 REV	EA	100
130	250397	GASKET, PRE-CUT: TYPE: STEAM/WATER; MATERIAL: LYTHERM; SUPPL P/N: SO00082; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT ON BURNER	EA	100

CONTROLLED DISCLOSURE

140	250389	O RING: INSIDE DIAMETER: 12.42 MM; WIDTH: 3 MM; COLOR: GREEN; APPLICATION: FILTER DUPLEX; SUPPL P/N: SO00045; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	250
150	250403	O RING: INSIDE DIAMETER: 37.82 MM; WIDTH: 3 MM; COLOR: GREEN; APPLICATION: FILTER DUPLEX; SUPPL P/N: SO00044; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT SKID; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	250
160	250387	O RING: INSIDE DIAMETER: 58.42 MM; WIDTH: 3 MM; COLOR: GREEN; APPLICATION: FILTER DUPLEX; SUPPL P/N: SO00043; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	250
170	250388	O RING: INSIDE DIAMETER: 70 MM; WIDTH: 3 MM; MATERIAL: VITON; INDUSTRY STANDARD: 2-115; COLOR: GREEN; APPLICATION: FILTER DUPLEX; SUPPL P/N: SO00042; DRAWING NO: PRJ.1200 1 REV 1; TO BE USED IN THE SO3 PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	250
180	552798	VALVE, RELIEF: SET PRESSURE: 700 KPA; TEMPERATURE RATING: 290 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CS; TRIM: ASME FIG 35902; OPERATED: PRESSURE; SPECIFICATION: 25NB13 PRV-ARI SAFE; STYLE: OPEN BONNET; DESIGN RATING: 800 KPA; PRESSURE RANGE: 74-131 PSIG; DRAWING NO: PRJ. 12001 REV 0; REFERENCE NO: SO00270; 1 IN FLANGED WITH 4 HOLES; DATA SHEET: 900001-2	EA	800
190	500935	BLOWER: TYPE: LOBE BLOWER; CAPACITY: MIN 1980; MAX 3810 M3; SIZE: 8 IN; POTENTIAL: 380 V; POWER: 37 KW; REFERENCE NO: GAGLBPA 7LP; 7 L PROCESS; SO3 PROCESS BLOWER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	20
200	256480	VALVE, BUTTERFLY: TYPE: BARE SHAFT; VALVE SIZE: 150 MM; DESIGN RATING: 2 MPA; TEMPERATURE RATING: 400 DEG C; CONNECTION: FLANGE; BODY MATERIAL: STAINLESS STEEL; FACE TO FACE LENGTH: 56 MM; OPERATED: ACTUATOR; APPLICATION: AIR HEATER OUTLET; SPECIFICATION: 11674; STYLE: WAFER; OEM P/N: 5SSS6-SP-B(HT), OEM: PALTECHNOLOGIES; REFERENCE NO: SO00073; A550; MUST NOT INCLUDE THE ACTUATOR; MATERIALS CONSTRUCTION: BODY; DISC; SHAFT AND PLUGS-ASTM-A743-CF8M; SEAT AND SEAL KIT-PERFORATED BEARING FOR HIGH TEMPERATURE; SEAL-METAL 304; STUFFING BOX PACKING-CARBON LOADED GRAPHOIL (MONEL WIRED); 300 MM SHAFT EXTENSION COMPLETE WITH SPIDER-SST316	EA	25

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210	660333	COOLER: TYPE: SO ₂ ; DIMENSIONS: LG 6 M; RATING: 70 KPA AT 704 DEG C; REFERENCE NO: 1-HE30201; STAINLESS STEEL SCHEDULE 10; 316L STAINLESS STEEL; HYDROSTATIC TEST PRESSURE; 55 KPA INSIDE; OPERATING TEMP: 649 DEG C INSIDE; CODE: B31.3 (2014) ATTACHED TO A BRACKET TO BE VISIBLE AFTER INSTALLATION OF LAGGING & CLADDING; MATIMBA POWER STATION THIRD PARTY INSPECTOR TO APPROVE WELDING PROCEDURE & QUALITY CONTROL PLAN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	25
220	256469	VALVE, BUTTERFLY: TYPE: BARE SHAFT; VALVE SIZE: 150 MM; DESIGN RATING: 2 MPA; TEMPERATURE RATING: -60 TO 200 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CS; FACE TO FACE LENGTH: 56 MM; OPERATED: ACTUATOR; APPLICATION: COOLER OUTLET; STYLE: WAFER; OEM P/N: 5WW6PVB, OEM: PALTECHNOLOGIES; DRAWING NO: PRJ 12001 REV 1; REFERENCE NO: ASR 25; USED AT SO ₃	EA	25
230	250398	IMPELLER, FAN: TYPE: COOLING AIR, SKID IN THE SO ₃ PLANT; SUPPL P/N: SO00170; DRAWING NO: PRJ.12001 REV 1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	15
240	500931	COUPLING, SHAFT: TYPE: DRIVE CLAW; BORE: 42 X 22 MM; OUTSIDE DIAMETER: 78 MM; LENGTH: 115 MM; MATERIAL: STL; REICH MMA; COMPLETE COUPLING WITH SPIDER	EA	30
250	250402	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: CERAMIC; SHAPE: RD; SUPPL P/N: SO00101; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO ₃ PLANT ON THE PIPING SYSTEM	EA	50
260	251009	GASKET, JACKETED: DIMENSIONS: ID 18 IN; JACKET MATERIAL: CERAMIC; FILLER MATERIAL: SS GR 304; SHAPE: RD; SUPPL P/N: SO 00084; DRAWING NO: PRJ 12001 REV 1; REFERENCE NO: 2VE30301; IT S/W; CS OUTER RING	EA	50
270	250396	GASKET, SPIRAL WOUND: FILLER MATERIAL: LYTHERM; SHAPE: RD; SUPPL P/N: SO00083; DRAWING NO: PRJ.12001 REV 1; USED ON BURNER FLANGES IN THE SO ₃ PLANT	EA	50

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280	250384	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: CERAMIC; SHAPE: RD; SUPPL P/N: SO00102; DRAWING NO: PRJ. 12001 REV 1; USED ON SO3 PIPES	EA	50
290	250391	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: CERAMIC; SHAPE: RD; SUPPL P/N: SO00103; DRAWING NO: PRJ. 12001 REV 1; TO BE USED ON THE SO3 PIPES	EA	50
300	250394	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: CERAMIC; SHAPE: RD; SUPPL P/N: SO00090; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT ON THE STEAM PIPING SYSTEM	EA	50
310	250392	GASKET, SPIRAL WOUND: FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: SS GR 304; SHAPE: RD; SUPPL P/N: SO00111; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT ON THE SULPHUR PIPE SYSTEM	EA	50
320	250393	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: GRAPHITE; SHAPE: RD; SUPPL P/N: SO00112; DRAWING NO: PRJ. 12001 REV 1; USED ON SO3 PLANT, ON THE SULPHUR SYSTEM	EA	50
330	250395	GASKET, SPIRAL WOUND: INNER RING MATERIAL: SS GR 304; FILLER MATERIAL: CERAMIC; SHAPE: RD; SUPPL P/N: SO00104; DRAWING NO: PRJ.12001 REV 1; USED IN THE SO3 PLANT ON THE SULPHUR PIPING	EA	50
340	251008	TRAP, STEAM: TYPE: THERMODYNAMIC; CONNECTION: SOCKET WELD ENDS; PRESSURE RATING: PN 40; MATERIAL: FST C22.8; SUPPL P/N: SO00310; DRAWING NO: PRJ 12001 REV 1; 15 NB TRAP-ARI-CONA TD WITH REPLACEABLE MODULE AND INTEGRAL STRAINER; DN 15; DATASHEET 6400012; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	500
350	583303	ELEMENT: DIMENSIONS: DIA 31.9 X LG 34 MM; MATERIAL: FORGE STEEL; TYPE: ARI-CONA TD INNER; MANUF P/N: SO00320; DRAWING NO: PRJ.12001 REV 0; PCD=(+/-)14MM	EA	20

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360	552816	VALVE, GLOBE: VALVE SIZE: 1/2 IN; OPERATED: ACTUATOR PNEUMATIC; CONNECTION: FLANGE; BODY MATERIAL: STAINLESS STEEL; GRADE: ANSI150; DESIGN RATING: 700 KPA; TEMPERATURE RATING: 140 DEG C; DRAWING NO: PRJ.12001 REV 0; REFERENCE NO: SO00072; BURNER INLET VALVE (OPEN/CLOSE) ASR12 30-60 NM	EA	25
370	630032	TRANSMITTER, FLOW: TYPE: ELITE REMOTE; RANGE: -30 TO 55 DEG C; OUTPUT: 0-20 MA; SUPPLY: 85-265 VAC; 18-30 VDC; APPLICATION: SULPHUR SO ₃ PLANT; ENCLOSURE: NEMA 4X; OEM P/N: 9739MVD61MAEZZZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	25
380	250400	HOSE, METALLIC: INSIDE DIAMETER: 75 MM; LENGTH: 3.5 M; MATERIAL: METAL FLEXIBLE; TYPE: COUPLING; EXTERIOR COLOR: SILVER; SUPPL P/N: SO00050; MNFR DRG: PRJ.12001 REV 1; USED IN THE SO ₃ PLANT ON THE SULPHUR DISCHARGE PUMP WHEN OFFLOADING SULPHUR	EA	50
390	250399	PUMP: TYPE: GEAR; SIZE: 4 X 4 IN; CAPACITY: 113 GAL/MIN; SPEED: 488 RPM; RATING: 25 PSIG; DRIVER: MOTOR; POTENTIAL: 400 V; CASING MATERIAL: CI; APPLICATION: SULPHUR OFF LOADING; SUPPL P/N: MD101ERDK-1U33/06C; REFERENCE NO: 311664; USED IN THE SO ₃ PLANT FOR OFF LOADING SULPHUR FROM THE TANKER INTO THE SULPHUR TANK; 4 KW; RATIO 2 .96:1; MOTOR SK112M/4 36212700; GEARBOX SK32 X 2-112 MK; COUPLING DRIVE MAGNET MATERIAL:SAMARIUM COBALT PERMANENT MAGNETS; PUMP TO BE FITTED WITH A BYPASS VALVE	EA	6
400	607435	VALVE, GLOBE: VALVE SIZE: 15 MM; FACE TO FACE LENGTH: 130 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 1.046; TRIM: BODY 1.0460-C22.8 ASTM A105; 1.0619 N; GRADE: C22.8; STEM DESIGN: RISING STEM; STYLE: BONNET; APPLICATION: SO ₃ PLANT; SPECIFICATION: ARI-STOBU 005 PN 40; TYPE: STUFFING BOX; DESIGN RATING: 40 BAR; TEMPERATURE RATING: 250 DEG C; MATERIAL & TEST CERTIFICATE TO BE SUPPLIED ON DELIVERY	EA	30
410	251007	GASKET, PRE CUT: DIMENSIONS: ID 16 X OD 25 X THK 4 MM; THICKNESS: 4 MM; TYPE: SO ₃ PLANT; MATERIAL: VITON; SHAPE: FLAT; TEMPERATURE RATING: 160 DEG; TO BE USED AT SO ₃ PLANT	EA	10
420	610966	ELBOW, PIPE: SIZE: 6 IN; CONNECTION: BUTT WELD; MATERIAL: STAINLESS STEEL; DEGREE: 90; SCHEDULE: 10; GRADE: 90; TYPE: LONG RADIUS; OD 168.3 MM FOR SO ₃ COOLER LINE; USE ON HIGH TEMPERATURE AND PRESSURE; ELBOW TO BE STAMPED WITH 90 DEGREE AND SCHEDULE 10 AND 6 INCH; MATERIAL DATA SHEET TO BE SUPPLIED WITH DELIVERY	EA	50

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430	610965	PIPE: INSIDE DIAMETER: 6 IN; LENGTH: 6 M; MATERIAL: SS GR 316; SCHEDULE: 10; STRUCTURE: STRAIGHT HOLLOW; TYPE: SO ₂ COOLER; MATERIAL DATA SHEET TO BE SUPPLIED WITH DELIVERY	EA	50
440	670227	INJECTOR: TYPE: LANCE; SIZE: 3.68 M; MATERIAL: SS 316; APPLICATION: SO ₃ PLANT; DRAWING NO: 0.58/61229 REV 0; WELDING PROCEDURE AND QUALITY CONTROL PLAN MUST BE APPROVED BY ESKOM BEFORE MANUFACTURING; ALL HOLES MUST BE PLUGGED FOR STORAGE PURPOSES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	300
450	592473	PUMP: TYPE: VERTICAL SUMP/PROCESS; SIZE: 1 X 1.5 IN; CAPACITY: 3180 GAL/MIN; SPEED: 2930 RPM; RATING: 1034 KPA; APPLICATION: SULPHUR; REFERENCE NO: E2.73C600; MUST BE FITTED WITH STEAM JACKETS ON PUMP SHAFT ASSEMBLY; HEAD: 135 FEET; TO PUMP LIQUID SULPHUR	EA	6
460	660994	PLUG, VALVE: VALVE STYLE: NEEDLE; VALVE SIZE: 0.8 IN; MATERIAL: SS 316L; REFERENCE NO: MTBBLR1-6SO ₃ S7.7; 1 INCH STAINLESS STEEL SULPHUR CONTROL VALVE TRIM (PLUG; STEM & SEAL KIT)	EA	50
470	663511	CATALYST: TYPE: SOLID; FORM: RIBBED; CONTAINER: DRUM 210 L; REFERENCE NO: 04-110R-10; TO BE SUPPLIED WITH MSDS CERTIFICATE; SO ₃ PLANT FIRST BED; SUPPLIED IN SEALED CONTAINER; 92KG/DRUM; 5MM RINGS; BASF	EA	150
480	663510	CATALYST: TYPE: SOLID; FORM: RIBBED; CONTAINER: DRUM 210 L; REFERENCE NO: 04-111R-10; TO BE SUPPLIED WITH MSDS CERTIFICATE; SUPPLIED IN SEALED CONTAINER; 92KG DRUM	EA	150
490	669803	VALVE, BALL: VALVE SIZE: 77.8 MM; DESIGN RATING: 19 BAR; TEMPERATURE RATING: 220 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CF8M (316); FACE TO FACE LENGTH: 203 MM; OPERATED: HAND; STYLE: STRAIGHT THROUGH; TRIM: SS 316; SOFTGOODS: TFE; SPECIFICATION: BS 5351; PORT TYPE: BALL; APPLICATION: SHUT OFF VALVE FOR LIQUID SULPHUR; GRADE: CF8M; TYPE: OPEN/CLOSE; REFERENCE NO: 80MM 30K51-6666TT150150; A00959; BALL: 18-10-3; SEAT: TT; DN80; CLASS: 150.	EA	30

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500	707824	VALVE, BALL: VALVE SIZE: 77.8 MM; DESIGN RATING: 19 BAR; TEMPERATURE RATING: 220 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CF8M (316); FACE TO FACE LENGTH: 203 MM; OPERATED: HAND; STYLE: STRAIGHT THROUGH; TRIM: SS 316; SOFTGOODS: TFE; SPECIFICATION: BS 5351; PORT TYPE: BALL; APPLICATION: SHUT OFF VALVE FOR LIQUID SULPHUR; GRADE: CF8M; TYPE: OPEN/CLOSE; REFERENCE NO: 80MM 30K51-6666TT150150; A00959; BALL: 18-10-3; SEAT: TT; DN80; CLASS: 150.	EA	30
510	583304	KIT, VALVE REPAIR: TYPE: FLOW SERVE; APPLICATION: SO3; MANUF P/N: SO00078; DRAWING NO: PRJ.12001 REV 0	EA	30
520	769378	VESSEL: TYPE: PRESSURE; CAPACITY: 4.061 M3; MATERIAL: ASTM/ASME A/SA-516 GRADE; AUTHORIZED INSPECTION AUTHORITY TO APPROVE ALL DOCUMENTATION. THE VESSEL WILL BE MANUFACTURED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	4

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4. Record(s)

Type of record	Retention time	Responsibility
None		

5. Addenda / Appendix

None

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