

	Scope of Work	Generation/Kriel PS
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Title: **Supply and Delivery of Sulphur Trioxide (SO₃) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station** Document Identifier: **559-686795654**

Alternative Reference Number: **N/A**

Area of Applicability: **Eskom Holdings SOC Ltd**

Functional Area: **Engineering**

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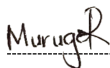
Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

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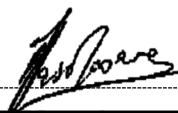
Functional Responsibility

Authorized by



System Engineer

Date: 2025/07/17



Boiler Engineering Manager

Date: 17/07/2025



Engineering Manager

Date: 17/07/2025

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1. Introduction

Kriel PS condition the dust particles with SO₃ to reduce the high resistivity and increase the ESP collection efficiency and as results achieve the emissions limit requirements of 100 mg/Nm³ on a daily basis. It is requirement for the licence holder to ensure that these conditions are always adhered to through a continuous focus on the operating, optimization, and maintenance of the plant. For this to happen effectively, maintenance work must be done at both all moving and damaged non-rotatable components.

2. Supporting Clauses

2.1 Scope

The scope of the document defines the scope of work for the supply and delivery of SO₃ Plant Mechanical spares listed in section 3.1 of this document at Kriel Power Station for a period of five years.

2.1.1 Purpose

The purpose of this document is to provide technical governance in terms of a scope of work for the supply and delivery of ESP Plant Mechanical Spares listed in section 3.1 of this document at Kriel Power Station.

2.1.2 Applicability

This document is applicable to Kriel Power Station.

2.1.3 Effective date

This document will be effective on the date the document is authorised.

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

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2.2.2 Informative

[2] 240 -105658000: Supplier Quality Management Specification.

[3] Atmospheric Emission Licence (AEL): 17/4/AEL/MP312/11/09

2.3 Definitions

Electrostatic Precipitators	<p>An Electrostatic Precipitator (ESP) is a type of air pollution control device used to remove particulate matter from industrial and power generation flue gases before they are released into the atmosphere to reduce emissions of fine particulate matter, which can be harmful to human health and the environment.</p> <p>It uses an electrostatic charge to separate particles from the gas stream, which are then collected on charged plates or electrodes.</p>
Sulphur Trioxide Plant	<p>A sulphur trioxide plant, also known as a SO₃ plant, is an industrial facility that produces sulphur trioxide (SO₃) through the reaction of sulphur dioxide (SO₂) and oxygen (O₂).</p> <p>Sulphur dioxide is generated by burning molten liquid sulphur in the presence of oxygen (O₂). The sulphur dioxide is then oxidized to sulphur trioxide by reacting it with oxygen in the presence of a catalyst, Vanadium pentoxide (V₂O₅).</p>

2.4 Abbreviations

Abbreviation	Explanation
ESP	Electrostatic Precipitators
ISO	Internal Organisation for Standardization
SO ₃	Sulphur Trioxide Plant
QCP	Quality Control Plan

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2.5 Roles and Responsibilities

2.5.1 System Engineer

- Responsible for compilation of the scope of work for the contract and ensuring all items are defined clearly and all technical information is correct.

2.5.2 Maintenance

- Responsible for ensuring that the quality of the supplied spares is correct and useable prior to the item being accepted by the store.

2.5.3 Material Management

- Responsible for ensuring that relevant people inspect that the supplied material(s) is correct before acceptance by the stores and the material is stored correctly.

2.6 Process for Monitoring

Quality Control of incoming material shall be done in accordance with Eskom Standard and all material shall be signed off by the appointed personal (as per stores register) to ensure that the quality of the supplied material is according to standard with relevant paperwork in order.

2.7 Related/Supporting Documents

None

3. Scope of Work

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3.1 Sulphur Trioxide (SO₃) Mechanical Spares List

ITEM NO	STOCK NUMBER	UNIT OF MEASURE	SHORT DESCRIPTION	LONG DESCRIPTION	QUANTITY REQUIRED
1	608942	EA	GASKET PC:ID 585 X OD 625 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 585 X OD 625 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER OUTLET FLANGE	80
2	608938	EA	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5MM; TYPE: ISOLATION; MATERIAL: FIBRE CERAMIC; SHAPE: ROUND;	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; BURNER OUTLET FLANGE NO: 2; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES	120

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3	608939	EA	GASKET PC:ID 485 X OD 525 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 485 X OD 525 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER LANCE FLANGE	80
4	608944	EA	GASKET PC:ID 1.475 X OD 1.515 M;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 1.475 X OD 1.515 M; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; GASKET IS 5 TIMES SEGMENTED; BURNER LID GASKET	80
5	608943	EA	GASKET PC:ID 330 X OD 370 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER INLET FLANGE	80

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6	608941	EA	GASKET PC:ID 91 X OD 183 MM;THK 5 MM;190	GASKET, PRE CUT: DIMENSIONS: ID 91 X OD 183 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; NOMINAL FLANGE SIZE: 190 MM; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; FOR FLEXIBLE HOSES	300
7	621332	EA	VALVE GLB:1/2 IN;32.8 MPA;80 MM;MANUAL	VALVE, GLOBE: VALVE SIZE: 1/2 IN; DESIGN PRESSURE: 32.8 MPA; DESIGN TEMPERATURE: 427 DEG C AT 76 BAR; FACE TO FACE LENGTH: 80 MM; OPERATED: MANUAL; CONNECTION: BW; BODY MATERIAL: ASTM A105; TRIM: F6/STELLITED; GRADE: ASTM A105; STEM DESIGN: YOKE; STYLE: T PATTERN; APPLICATION: CONDENSATE DRAIN; TYPE: FLOW; DESIGN RATING: 800 LB; TEMPERATURE RATING: 427 DEG C	130

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8	621237	EA	BASKET STRNR:WD 10 X HT 11 IN;SS GR 316	BASKET, STRAINER: DIMENSIONS: WD 10 X HT 11 IN; MATERIAL: SS GR 316; PERFORATION SIZE: 1/16 IN; TYPE: DUPLEX; MEDIA FOR WHICH DESIGNED: LIQUID SULPHUR; SHAPE: RECTANGULAR; APPLICATION: TRANSPORTATION AND FILTERING MOLTEN LIQUID; FLANGE: CF8M; STYLE: SSDXF; CLASS: 150LB; SIZE: 1IN; SEALS: VITON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	70
9	56531	EA	HOSE ASSY, NON MTLC;65 MM, LG 1000 MM	HOSE ASSEMBLY, NON METALLIC: HOSE SIZE: 65 MM; LENGTH: 1.1 M; CONNECTION 1: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CONNECTION 2: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CORE MATERIAL: STAINLESS STEEL; COVER MATERIAL: SS BRAIDED; TYPE: FLEXIBLE CORRUGATED; FOR SO3 PLANT; SIZE 76MM OD	360

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**Supply and Delivery of Sulphur Trioxide (SO₃) Plant
Mechanical Spares “as and when required” for a
period of five years at Kriel Power Station**

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10	157226	EA	CATALYST: VANADIUM PENTOXIDE XLP-110	CATALYST: TYPE: VANADIUM PENTOXIDE XLP-110; FORM: RIBBED RING; CONTAINER: DRUM 200 L; FOR USE IN SO ₃ SYSTEM CONVERTER; SIZE: 12 MM; REQUIRED A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY; SULFURIC ACID CATALIST	200
11	69159	EA	BALL:SO ₃ CONVERTER;20 MM;CER	BALL: TYPE: SO ₃ CONVERTER; DIAMETER: 20 MM; MATERIAL: CERAMIC; THE ITEM MUST BE SUPPLIED IN A SEALED 210L STL DRUM; ONE DRUM = ONE EACH	200
12	750486	EA	ORING SET:ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 60 X ID 52 XTHK 4 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200

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13	750484	EA	ORING SET:ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 90 X ID 80 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280
14	750483	EA	ORING SET:ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 58 X ID 48 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280
15	750485	EA	ORINGSET: ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 20 X ID 16 X THK 2 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280

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16	210360	EA	SHEET GSKT:THK 1.5 MM;LG 2 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE; 440 DEG C, CONTINUOUS TEMPERATURE; 350 DEG C, TEMPERATURE WITH STEAM; 300 DEG C, PRESSURE: 120 BAR/1740 PSI	360
17	210362	EA	SHEET GSKT:THK 3 MM;LG 2 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE: 440 DEG C, CONTINUOUS TEMPERATURE; 350 DEG C, TEMPERATURE WITH STEAM; 300 DEG C, PRESSURE: 120 BAR/1740 PSI.	360
18	189955	EA	GREASE INDSTRL: BEARING;55 DEG C;125/WA2	GREASE, INDUSTRIAL: TYPE: BEARING; TEMPERATURE RATING: 55 DEG C; VISCOSITY RATING: 125/WA2; COLOR: GREEN; CONTAINER: 125 ML; SUPPL P/N: LAGD125/WA2; FOR USE ON MILL SEAL AIR AND SO3 FAN BEARINGS, TO BE SUPPLY IN CANISTERS WIT GAS ADJUSTER ON TOP.	15000

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19	718046	EA	STRAINER:DUP;WD10 X HT11 IN;149 MM;100	STRAINER: TYPE: DUPLEX; DIMENSIONS: WD10 X HT11 IN; MATERIAL: STAINLESS STEEL 316; FILTERING RETENTION: 149 MM; MESH: 100; MICRON: 149 MM; SPECIFICATION: SSDPXF	80
20	73541	EA	TRAP STEAM:BW 25 MM;110 BAR;13CRMO44	TRAP, STEAM: CONNECTION: BW 25 MM; PRESSURE RATING: 110 BAR; MATERIAL: 13CRMO44; SUPPLIER NOTE: THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED, BSV116/BK29/PN160; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	420
21	59004	EA	TRAP STEAM:BELLOWS AIR/WATER;BSP 1/2 IN	TRAP, STEAM: TYPE: BELLOWS AIR/WATER; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 17 BAR; MATERIAL: PC; SUPPL P/N: 4539D; SCHRABER, FOR DRY DUST BLOWPOTS, TEMPERATURE RANGE -10 DEG C TO +50 DEG C; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	420

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22	73690	EA	VALVE IN;WEDGE;THD;80 MM;MANUAL	GATE:1/2 VALVE, GATE: VALVE SIZE: 1/2 IN; TYPE: WEDGE; CONNECTION: THD; FACE TO FACE LENGTH: 80 MM; BODY MATERIAL: FST ASTM A105; TRIM: DISC/SEAT F6-HF; STEM F6; OPERATED: MANUAL; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 0-850 DEG F; DESIGN RATING: 800 LB; CAT NO: L813; OMB; FOR ASH HOPPERS.	200
23	74272	EA	VALVE MM;AIR;FLANGE;CS;300 LB	GLB:50 VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: AIR; CONNECTION: FLANGE; BODY MATERIAL: CS; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; DESIGN RATING: 300 LB; REFERENCE NO: 667ES; 20X6 MM; FISHER	50
24	750578	EA	BOLT THREADED M20 X 120MM;16	ASSY:FULLY BOLT, ASSEMBLY: TYPE: FULLY THREADED M20 X 120MM; NOMINAL DIAMETER: 16 MM; LENGTH: 75 MM; HEAD: 24 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 65 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; RIGHT HAND THREAD DIRECTION, PITCH SIZE X 2.5 MM	600

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25	750581	EA	BOLT ASSY:THD;20 MM;LG 75 MM;30 MM;8.8;1	BOLT, ASSEMBLY: TYPE: THREADED; NOMINAL DIAMETER: 20 MM; LENGTH: 75 MM; HEAD: 30 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 50 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; NUT GRADE: 8.8; RIGH HAND THREAD DIRECTION,	600
26	751406	EA	BOLT ASSY:STUD;16 MM;LG 150 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 150 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 150 MM; THREAD: HEXAGON; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 90MM; THREAD DIAMTER X 16 MM AND PITCH 2.5 MM; STUDS ARE THREADE ON BOTH SIDES WITH A SHANK IN THE MIDDLE	600

CONTROLLED DISCLOSURE

27	751405	EA	BOLT ASSY:STUD;16 MM;LG 140 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 140 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 140 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 80MM; THREAD DIAMTER X 16 MM AND PITCH X 2.5 MM; STUDS ARE THREADED BOTH SIDES WITH A SHANK IN THE MIDDLE	600
28	751404	EA	BOLT ASSY:STUD;20 MM;LG 145 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 20 MM; LENGTH: 145 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 145 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 85 MM; THREAD DIAMETER X 20 MM AND PITCH X 2.5 MM; STUDS ARE THREADE ON BOTH SIDES WITH A SHANK IN THE MIDDLE.	600

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29	58802	EA	TRAP STEAM:FLOAT AIR;BSP 1/2 IN;4.5 BAR	TRAP, STEAM: TYPE: FLOAT AIR; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 4.5 BAR; MATERIAL: STL; SUPPL P/N: FT14TV4-5; COMPLETE, TMO:- 156 DEG CELSIUS,(TV = THERMOSTATIC AIR VENT), FOR S03; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	160
30	751400	EA	ELBOW:UNION;8 MM;TUBE;SS;90 DEG	ELBOW: TYPE: UNION; SIZE: 8 MM; CONNECTION: TUBE; MATERIAL: STAINLESS STEEL; DEGREE: 90 DEG; LENGTH X 29.4 MM, NUT X 15.87 MM; TUBE TO TUBE CONNECTION	500
31	750579	EA	UNION: PIPE;8 MM; THD;SS	UNION: TYPE: PIPE; SIZE: 8 MM; CONNECTION: THREADED; MATERIAL: STAINLESS STEEL; 1/2 INCH THREADED PITCH AND 20 MM THREADE LENGTH	500
32	750488	EA	INSERT TUBE:OD 14.28 MM;ID 8 MM	INSERT, TUBE: OUTSIDE DIAMETER: 14.28 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; UNION TEE, LENGTH X 30 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	500

CONTROLLED DISCLOSURE

33	751401	EA	CONNECTOR:NPT THREAD;DIA9.53 X LG39.5 MM.	CONNECTOR: TYPE: NPT THREAD; DIMENSIONS: DIA9.53 X LG39.5 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR	500
34	751402	EA	CONNECTOR:TAPERED THREADED;SS	CONNECTOR: TYPE: TAPERED THREADED; DIMENSIONS: DIA8 X LG 41 XTHK 1 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR	500
35	750491	EA	INSERT TUBE:OD 12 MM;ID 8 MM.	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; FRONT FERRULE, 8 MM PIPE FITTING CONNECTION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200
36	750487	EA	INSERT TUBE:OD 12 MM;ID 12 MM	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 12 MM; MATERIAL: STAINLESS STEEL, 316; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200

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37	750489	EA	INSERT TUBE:OD 8 MM;ID 6 MM	INSERT, TUBE: OUTSIDE DIAMETER: 8 MM; INSIDE DIAMETER: 6 MM; MATERIAL: STAINLESS STEEL, 316; LENGTH X 6.1 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200
38	753602	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 40; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 2.7 MM AND ID X 15.88	300
39	750580	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 80; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 3.73 MM AND ID X 13.9 MM	300
40	63690	EA	GREASE: BEARING; 20 DEG C;CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY	18000

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41	69158	EA	TUBE LNCE:64053001L00006	TUBE, LANCE: DRAWING NO: D64053001 L00006 REV 1; REFERENCE NO: 64053001L00006; INJECTION FOR S03 PLANT INJECTION TO AIR HEATER OUTLET; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	144
42	649006	EA	VALVE GLB:1 IN;103 BAR;-18 TO 232 DEG C	VALVE, GLOBE: VALVE SIZE: 1 IN; DESIGN PRESSURE: 103 BAR; DESIGN TEMPERATURE: -18 TO 232 DEG C; FACE TO FACE LENGTH: 197 MM; OPERATED: ACTUATOR PNEUMATIC; CONNECTION: FLANGE RF; BODY MATERIAL: STL GR WCC; TRIM: BOLTED BODY/BONNET; PLUG SS 416; RING RETAINER CB7CU-1SST; SEAT RING SS 541600; STEM 3/8 IN SS 316; GRADE: WCC; CL 300; SOFTGOODS: PTFE; STYLE: SINGLE PORT; APPLICATION: S03 PLANT COMMON STEAM SUPPLY; SPECIFICATION: NPS1-EZ; DESIGN RATING: CL 300; REFERENCE NO: EZ-6-80155; BONNET STYLE PLAIN; GASKETS NICKEL ALLOY N06600; STUDS SA-193-B7/ NUTS NCF2; FISHER CONTROL VALVE, ACTUATOR SPRING/DIAPHRAGM, ACTUATOR 667134I; SEAT METAL	18

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**Supply and Delivery of Sulphur Trioxide (SO₃) Plant
Mechanical Spares “as and when required” for a
period of five years at Kriel Power Station**

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43	41552	EA	FILTER AIR: PRIMARY INLET; GLASS FIBER	FILTER, AIR: TYPE: PRIMARY INLET; DIMENSIONS: WD 290 X LG 590 X DP 360 MM; MATERIAL: GLASS FIBER; AP	300
44	161400	EA	GREASE: BEARING;20 DEG C; CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY	12000
45	152059	EA	GLASS SGHT: DIA 100 X THK 10 MM;GLASS;500	GLASS, SIGHT: DIMENSIONS: DIA 100 X THK 10 MM; MATERIAL: GLASS; COLOR: TRANSPARENT; RATING: 500 DEG C; QUARTS, QUALITY: HERASIL3, POLISHED ON BOTH SIDES, FOR USE ON SULPHUR FURNACE	48

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
████████████████████	Chief Engineer (Gx Engineering Specialist)
████████████████████	Boiler Engineering Manager
████████████████████	Engineering Manager
████████████████████	Senior Supervisor Mechanical Maintenance

5. Revisions

Date	Rev.	Compiler	Remarks
July 2025	01	R Muruge	New document

6. Development Team

The following people were involved in the development of this document:

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- ████████████████████

7. Acknowledgements

N/A

CONTROLLED DISCLOSURE