

	Scope Of Work	Generation
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Title: **Supply and delivery of Dust Handling Plant on an As and When Required Basis For A Period of Five (5) Years.**

Unique Identifier: **555-EAP2393**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering/ Maintenance**





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1. INTRODUCTION

The current Atmospheric Emission License for Kriel Power Station requires that the station should comply with a limit of 100mg/Nm³ on continuous basis. It is required then for licence holder to ensure that these conditions are always adhered to through a continuous focus on the operating, optimization, and maintenance of the plant.

This document therefore specifies the scope of work that will be an input to the contract between Eskom Kriel Power Station and the service provider for Supply and Delivery of Dust Handling Plant Spares on As and When Required basis at Kriel Power Station for period of five (5) years.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document specifies the scope of work that will be an input to the contract between Eskom Kriel Power Station and the service provider for Supply and Delivery of Dust Handling Plant Spares on As and When Required basis at Kriel Power Station for period of five (5) years.

2.1.1 APPLICABILITY

This document is applicable to Kriel Power Station and a service provider to Supply and Deliver Dust Handling Plant Spares to Kriel Power Station.

NORMATIVE/INFORMATIVE REFERENCES

2.1.2 NORMATIVE

- [1] ISO 9000: Quality Management Systems.
- [2] Occupational Health and Safety Act (Osh Act; Act 85 of 93)
- [3] Ash Conditioner Standard-559-1659503587
- [4] 240-49230111 Hazard and Operability Analysis (HAZOP) Guideline (Rev 1)
- [5] 240-55944466 Supplier Contract Quality Requirement's Specification
- [6] QM 58 Supplier Contract Quality Requirements
- [7] SANS 347: Categorization and conformity assessment of all pressure equipment
- [8] SANS 198: Valves – Pressure testing of valves.
- [9] SANS 1127-1: Gaskets for flanges – Part 1: Non-metallic flat gaskets.
- [10] SANS 1708-5: Pipe threads where pressure-tight joints are made – Part 5: Sealing washers and gaskets.
- [11] SANS 1123: Pipe flanges and bolting for pipes, valves, and fittings.

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[12] SANS 9906: Rotodynamic pumps – Hydraulic performance acceptance tests

[13] SANS 1281: Rolling bearings – Dynamic load ratings and rating life

2.1.3 INFORMATIVE

[14] Kriel Power Station DHP Operating & Control Philosophy Fly Ash Report-474-10911

[15] Maintenance Execution Strategy for the Dust Handling Plant-EAP0318

[16] Tender Technical Evaluation Strategy for supply and Delivery of Dust Handling Plant on an As and When required basis at Kriel Power Station for a period of 5 years is 555-EAP2394.

2.2 DEFINITIONS

2.2.1 DISCLOSURE CLASSIFICATION

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

2.3 ABBREVIATIONS

Abbreviations	Description
BOQ	Bill of Quantities
DHP	Dust Handling Plant
MMD	Mechanical Maintenance Department
OHSA	Occupational Health and Safety Act
OEM	Original Equipment Manufacture
QC	Quality Control
QCP	Quality control program/plan/procedure
SOW	Scope of Work
SANS	South African National Standard

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2.4 ROLES AND RESPONSIBILITIES

Roles and responsibilities are as follows:

Department	Responsibility
Auxiliary Engineering	Compiler of the scope of supply.
Procurement Department	Compile contract strategy for the contract and are the custodian of the procurement process.
Material Management	Manages the Contract.
Quality Department	QC personal ensures the quality of delivered spares
Mechanical Maintenance Department	Responsible for ensuring all the spares required by them as the End user are part of this document.

2.5 PROCESS FOR MONITORING

Quality checks on incoming products by the supplier will be done and all materials are to be signed off by the End User Supervisor, Quality controller or system engineer responsible.

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3. THE WORKS

The works is the Supply and Delivery of Dust Handling Plant Spares on As and When Required basis at Kriel Power Station for period of 60 months.

3.1 DESCRIPTION OF THE WORKS

3.1.1 SCOPE OF WORK

The scope of work is for the service provider to supply and deliver the following spares at Kriel Power Station:

<u>SUPPLY AND DELIVERY OF DUST HANDLING PLANT SPARES ON AN "AS AND WHEN" REQUIRED BASIS AT KRIEL POWER STATION FOR A PERIOD OF FIVE YEARS</u>				
Item No	Description	Stock No	Unit	Qty
<u>MACAWBER PLANT</u>				
1	JOINT, EXPANSION: SIZE: 300 MM; LENGTH: 130 MM; CONNECTION: FLANGE FF; MATERIAL: RUBBER; SUPPL P/N: 10-16; DUST HANDLING PLANT; ELEFLEX RED BAND COMPENSATOR; COMPLETE WITH FLOATING MS FLANGES TO BS4504 TABLE 10/3; HOLES TO BE TAP M20; MOVEMENT FLEXIBLE	54503	Each	300
2	VALVE, BALL: VALVE SIZE: 1 IN; CONNECTION: BSP; BODY MATERIAL: STAINLESS STEEL; GRADE: 316; TYPE: DLM ONE PIECE BAR STOCK	179544	Each	360
3	VALVE, BALL: VALVE SIZE: 40 MM; DESIGN RATING: 5; TEMPERATURE RATING: 10-80 DEG C; CONNECTION: 1-1/2 IN-NPT; BODY MATERIAL: CI; FACE TO FACE LENGTH: 164 MM; OPERATED: MANUAL; APPLICATION: BLOWPOTS	622607	Each	360
4	VALVE, CHECK: VALVE SIZE: 4 IN; DESIGN RATING: 25 BAR; TEMPERATURE RATING: 12 BAR AT 110 DEG C; CONNECTION: BSP; BODY MATERIAL: BRASS; FACE TO FACE LENGTH: 160 MM; OPERATED: SPRING; TRIM: DISC BRS; SEAT RUBBER; SPRING SS; SUPPL P/N: EUR0PA4; TYPE ITAP; FOR DRY DUST PLANT	69894	Each	250
5	VALVE, CHECK: VALVE SIZE: 2 IN; DESIGN RATING: 25 BAR; TEMPERATURE RATING: 110 DEG C; CONNECTION: BSP; BODY MATERIAL: BRASS; FACE TO FACE LENGTH: 100 MM; OPERATED: SPRING; TRIM: DISC BRS; SPRING SS; SOFTGOODS: SEAT RUBBER; SUPPL P/N: EUR0PA2; ITAP; FOR DRY DUST PLANT	69893	Each	200
6	LUBRICATOR: TYPE: AIR FILTER IN LINE; CONNECTION: THD; CAPACITY: 37 DM3/S; MATERIAL: STL; PRESSURE RATING: 17 BAR; TYPE 64 SERIES SET WITH A BL64-408 BOX SET WHICH INCLUDE DOUBLE YOKE, AUTO DRAIN METAL BOWL, MICRO FOG, BRACKET KIT AND SHUT OFF VALVE, OPERATIONAL TEMPERATURE -20 TO 80 DEG C AND MAXIMUM FLOW AT 10BAR, TO BE USED AT DRY DUST PRECIPITATORS	229243	Each	200

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7	ACTUATOR, PNEUMATIC: PRESSURE RATING: 7 BAR; COMPLETE WITH LIMIT SWITCH ASSEMBLY; FOR DUST INLET VALVE; TYPE KINETROL 140-100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	66552	Each	150
8	KIT, ACTUATOR REPAIR: TYPE: SOFTGOODS; APPLICATION: ACTUATOR PNEUMATIC; COMPRISING: LIP SEAL; MODEL NO: 140-104	97768	Each	150
9	VALVE: TYPE: CHANGE OVER; DESIGN RATING: 0.7-10 BAR; TEMPERATURE RATING: 5-75 DEG C; CONNECTION: 1/4 IN-FBSP; OPERATED: AIR; BODY MATERIAL: BRASS; STYLE: 3 PORT; 2 POSITION; SUPPL P/N: S/1340/14	70731	Each	100
10	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 50 MM; DESIGN RATING: 980 PA; TEMPERATURE RATING: -10 TO 80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI; OPERATED: HANDWHEEL; TRIM: DISC CR GR 45 HF; SEAT SS GR 403 NBR LINED; STEM SS; FIG NO: TOMOE 700K; REFERENCE NO: 700K; LEVER OPERATED; 12 MM SQ DRIVE	66548	Each	250
11	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 80 MM; DESIGN RATING: 980 KPA; TEMPERATURE RATING: -10 TO 80 DEG C; BODY MATERIAL: CI; OPERATED: HANDWHEEL; TRIM: DISC SS; SEAT NBR; SUPPL P/N: 700KNBR; NOTE TOMOE BRAND ONLY	66556	Each	250
12	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 150 MM; DESIGN RATING: 1 MPA; TEMPERATURE RATING: -10 TO 100 DEG C; CONNECTION: CLAMP; BODY MATERIAL: FCD450; OPERATED: LEVER; TRIM: DISC SS GR 316; SOFTGOODS: EPDM; MODEL NO: 615X; REFERENCE NO: 150615X6S	70596	Each	150
13	VALVE, DIAPHRAGM: VALVE SIZE: 25 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 225 LB AT 80 DEG F; CONNECTION: THD; BODY MATERIAL: BRZ; DIAPHRAGM MATERIAL: EPDM; NON RETURN; NORVAL; STAINLESS STEEL CONE	70251	Each	504
14	VALVE: TYPE: BLOW; VALVE SIZE: 4 IN; CONNECTION: FLANGE; OPERATED: PRESSURE, SPRING; BODY MATERIAL: STL; STYLE: 2 WAY; TRIM: SHAFT/SPRING STL; SUPPL P/N: P16583B-0; FOR DRY DUST	69385	Each	50
15	KIT, VALVE REPAIR: REFERENCE NO: P16581P; FOR BLOW SIZE 4 INCH, TYPE SC3291/0233/89, CONSIST OF: 2 X ALUMINIUM SEALING RINGS 138MM OD X 5.5MM WIDE X 0.3MM THICK; 1 X O RING 107MM OD X 10MM THICK; 1 X O RING 128MM OD X 3.5MM THICK; 1 X CILINDER SEAL SQUARE 127MM OD X 113MM ID X 7MM WIDE; 2 X SHAFT SEALS 40MM OD X 30MM ID X 5MM WIDE; 5 X NYLOC NUTS M16 X 2MM PITCH; 1 X COMPRESSION SPRING 95MM OD X 150MM HIGH X 9MM WIRE DIAMETER	69387	Each	100

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16	VALVE: TYPE: BLOW; VALVE SIZE: 2 IN; CONNECTION: FLANGE; OPERATED: SPRING; BODY MATERIAL: STL; STYLE: CAP BOLTED; TRIM: DISC BRS; SPINDLE SS; SUPPL P/N: P4348B; REFERENCE NO: P4239A-2; X789; FOR MACAWBER PLANT; FLANGE DIA 155MM; 4 X 20MM HOLES DRILLED; 115MM PCD	69384	Each	100
17	KIT, VALVE REPAIR: REFERENCE NO: SC3291/0233/91; P4348B; 2 INCH BLOW, CONSIST OF: 1 X O RING 93MM OD X 3.4MM THICK, 1 X O RING 80MM OD X 3.5MM THICK, 1 X O RING 70MM X OD 6.0MM THICK, 1 X O RING 54.5MM X 5.2MM THICK, 2 X SHAFT SEALS 33MM OD X 25MM ID X 5.7MM WIDE, 1 X COMPRESSION SPRING 26.6MM OD X 166MM HIGH X 2.6MM WIRE DIAMETER, 1 X COMPRESSION SPRING 10MM OD X 162.5MM HIGH X 1.7MM WIRE DIAMETER	69386	Each	200
18	VALVE: TYPE: DOME; VALVE SIZE: 300 MM; DESIGN RATING: 400 KPA; TEMPERATURE RATING: 0-250 DEG C; CONNECTION: FLANGE; OPERATED: ACTUATOR; BODY MATERIAL: CI; STYLE: SPLIT BODY; SUPPL P/N: P16612A; REFERENCE NO: SC3291-0233-81; OPARATED: ACTUATOR KINETROL COMPLETED WITH BRACKED	69382	Each	450
19	KIT, VALVE REPAIR: SUPPL P/N: M1298; REFERENCE NO: M1202; M1299; P3721C; P8013D; 300MM DOME CONSISTING OF: 2 BEARINGS; 4 VARI SEALS; 2 O RINGS; 2 V SEALS; 4 SEAL RETAINING RINGS; NOTE - MUST BE PACKED AND SEALED PER KIT	100113	Each	200
20	DOME: TYPE: VALVE; DIMENSIONS: DIA 300 MM; MATERIAL: STL; REFERENCE NO: P2401A00; TO BE POLISHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69363	Each	150
21	RING: TYPE: INSERT; INSIDE DIAMETER: 335 MM; OUTSIDE DIAMETER: 378 MM; WIDTH: 20 MM; MATERIAL: STL; REFERENCE NO: P1825C-00; FOR 300MM DOME VALVE; TYPE SIMON CARVES	113200	Each	150
22	RING: TYPE: SPIGOT; INSIDE DIAMETER: 363 MM; OUTSIDE DIAMETER: 440 MM; WIDTH: 30 MM; MATERIAL: STL; REFERENCE NO: P1824B-00; FOR 300MM DOME VALVE SIMON CARVES	113196	Each	150
23	SEAL: TYPE: INSERT; DIMENSIONS: ID 315 X OD 405 X THK 44 MM; MATERIAL: RUBBER; SUPPL P/N: 1826C-2; REFERENCE NO: 3291/0233/103; FOR 300MM DOME VALVE, FOR NEW DRY DUST PLANT	100102	Each	150
24	PLATE: TYPE: TOP; DIMENSIONS: ID 295 X OD 555 X THK 60 MM; MATERIAL: STL; REFERENCE NO: P1823B; FOR 300MM DOME VALVE	70259	Each	150
25	VALVE: TYPE: DOME; VALVE SIZE: 200 MM; DESIGN RATING: 400 KPA; TEMPERATURE RATING: 0-250 DEG C; CONNECTION: FLANGE; OPERATED: ACTUATOR; BODY MATERIAL: CI; STYLE: SPLIT BODY; TRIM: DOME SS; SUPPL P/N: P16613A; REFERENCE NO: SC3291/0233/82; ASSEMBLY; TYPE SIMON CARVES	69381	Each	120

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26	VALVE, RELIEF: VALVE SIZE: 200 MM; SET PRESSURE: 16 BAR; TEMPERATURE RATING: -20 TO 100 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI; TRIM: BODY-CI; SEALS-NEOPRENE; FACE TO FACE LENGTH: 206 MM; OPERATED: PNEUMATIC ACTUATOR; SPECIFICATION: DV200; APPLICATION: DRY DUST BLOW TANK; GRADE: BS4504; TABLE 6; SOFTGOODS: NEOPRENE SEAL; DESIGN RATING: 60 MPA; PRESSURE RANGE: 30-400 BAR; MANUF P/N: 001.9112; MODEL NO: TOCO; TYPE: DOME ASSEMBLY; MEDIUM: AIR; COMPLETE WITH ACTUATOR AND TOP ADAPTOR	578892	Each	45
27	KIT, VALVE REPAIR: REFERENCE NO: M1171M1008P8011D; 200MM DOME CONSISTING OF: 2 BEARINGS PART NUMBER P8011D; 4 VARI SEALS PART NUMBER M1171; 2 O RINGS PART NUMBER M1162; 2 V SEALS PART NUMBER M1008; 4 SEAL RETAINING RINGS PART NUMBER P2147C; NOTE - MUST BE PACKED AND SEALED	100101	Each	200
28	RING: TYPE: VALVE INSERT; INSIDE DIAMETER: 226 MM; OUTSIDE DIAMETER: 258 MM; WIDTH: 15 MM; MATERIAL: STL; REFERENCE NO: P1643AA; FOR 200MM DOME VALVE, SIMON CARVES	113195	Each	300
29	RING: TYPE: SPIGOT; INSIDE DIAMETER: 248 MM; OUTSIDE DIAMETER: 330 MM; WIDTH: 21 MM; MATERIAL: STL; SUPPL P/N: P1643A-B; FOR 200MM DOME VALVE	113199	Each	150
30	CASTING: TYPE: DOME VALVE; DIMENSIONS: 250 MM; MATERIAL: CI; REFERENCE NO: P1158B-00; 3291/0233/115; FOR 200 MM VALVE; NOTE: TO BE POLISHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69364	Each	150
31	SEAL: TYPE: INSERT; DIMENSIONS: ID 235 X OD 275 X THK 32 MM; MATERIAL: RUBBER; SUPPL P/N: P5524C-01; REFERENCE NO: 3291/0233/112; FOR 200MM DOME VALVE, FOR NEW DRY DUST PLANT	100110	Each	300
32	CASTING: TYPE: DOME; DIMENSIONS: DIA 200 X HT 130 MM; MATERIAL: CI; SUPPL P/N: P16793B; INLINE WITHOUT SEAL; FOR VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69378	Each	200
33	VALVE: TYPE: DOME; VALVE SIZE: 150 MM; DESIGN RATING: 400 KPA; TEMPERATURE RATING: 0-250 DEG C; CONNECTION: FLANGE; OPERATED: ACTUATOR; BODY MATERIAL: CI; STYLE: SPLIT BODY; REFERENCE NO: P16614A; SC3291/0233/83; ASSEMBLY; SIMON CARVES	69380	Each	75
34	KIT, VALVE REPAIR: REFERENCE NO: M1365M1346P4673E; 150MM DOME CONSISTING OF: 2 BEARINGS PART NUMBER P8010D; 4 VARI SEALS PART NUMBER M1365; 2 O RINGS PART NUMBER M2085; 2 V SEALS PART NUMBER M1346; 4 SEAL RETAINING RINGS PART NUMBER P5406D-02; NOTE - MUST BE PACKED AND SEALED	100114	Each	200
35	RING: TYPE: INSERT; INSIDE DIAMETER: 178 MM; OUTSIDE DIAMETER: 208 MM; WIDTH: 15.5 MM; MATERIAL: STL; REFERENCE NO: P4676AB; FOR 150MM DOME VALVE	113194	Each	200

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36	RING: TYPE: SPIGOT; INSIDE DIAMETER: 198 MM; OUTSIDE DIAMETER: 255.8 MM; WIDTH: 21 MM; MATERIAL: STL; REFERENCE NO: P4676A-C; FOR 150MM DOME VALVE, TYPE SIMON CARVES	113198	Each	200
37	CASTING: TYPE: DOME; DIMENSIONS: DIA 200 MM; MATERIAL: STL; REFERENCE NO: P4677B-00; FOR 150MM VALVE, NOTE TO BE POLISHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69365	Each	168
38	SEAL, RING: TYPE: DOME VALVE INSERT; INSIDE DIAMETER: 150 MM; OUTSIDE DIAMETER: 225 MM; THICKNESS: 30 MM; MATERIAL: RUBBER; SUPPL P/N: P4665B; REFERENCE NO: SC 3291/0233/122; FOR 150MM DOME VALVE, NEW DRY DUST PLANT	100111	Each	300
39	CASTING: TYPE: DOME; DIMENSIONS: DIA 150 X WD 120 MM; MATERIAL: CI; SUPPL P/N: P16791A-00; REFERENCE NO: SC 3291-023399; TYPE: TOP ADAPTOR; SIZE: 150 MM DIA X 120 MM WD; FOR VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69377	Each	100
40	VALVE: TYPE: DOME; VALVE SIZE: 100 MM; DESIGN RATING: 400 KPA; TEMPERATURE RATING: 0-250 DEG C; CONNECTION: FLANGE; OPERATED: ACTUATOR; BODY MATERIAL: CI; STYLE: SPLIT BODY; TRIM: BONNET CI; DOME STL; REFERENCE NO: SC3291/0233/84; P16615A; ASSEMBLY	69379	Each	100
41	KIT, VALVE REPAIR: REFERENCE NO: M1243M1006P3884E; 100MM DOME, CONSISTING OF: 2 BEARINGS PART NUMBER P3884E, 4 VARI SEALS PART NUMBER M1243, 2 O RINGS PART NUMBER M1242, 2 V SEAL PART NUMBER M1006, 4 SEAL RETAINING RINGS PART NUMBER P2728C, NOTE - MUST BE PACKED AND SEAL	100115	Each	200
42	RING: TYPE: INSERT; INSIDE DIAMETER: 126.5 MM; OUTSIDE DIAMETER: 156 MM; WIDTH: 25 MM; MATERIAL: STL; REFERENCE NO: P1644BA; FOR 100MM DOME VALVE, SIMON CARVES	113193	Each	200
43	RING: TYPE: SPIGOT; INSIDE DIAMETER: 146 MM; OUTSIDE DIAMETER: 198 MM; WIDTH: 21 MM; MATERIAL: STL; REFERENCE NO: P1644BB; FOR 100MM DOME VALVE, SIMON CARVES	113197	Each	200
44	CASTING: DIMENSIONS: DIA 155 MM; MATERIAL: STL; REFERENCE NO: P1165C; FOR 100MM DOME VALVE, NOTE DOME TO BE POLISHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	69366	Each	200
45	SEAL: TYPE: INSERT; DIMENSIONS: ID 112 X OD 175 X THK 32 MM; MATERIAL: RUBBER; SUPPL P/N: P1586C-01; FOR 100MM DOME VALVE, SIMON CARVE	100112	Each	200
46	VESSEL: TYPE: ASH; MATERIAL: STL; REFERENCE NO: P16571A; 3291/0233/80; SIZE 1-5/12; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	38851	Each	50

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47	VESSEL: TYPE: ASH; MATERIAL: STL; SUPPL P/N: P16570A; REFERENCE NO: 3291/0233/79; TYPE SIMON CARVES; SIZE: 7/12; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	38850	Each	25
48	CONTAINER: TYPE: ASH; DIMENSIONS: 12/12; MATERIAL: STL; REFERENCE NO: 3291/0233/78; P16569A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	38849	Each	50
49	BEND, PIPE: OUTSIDE DIAMETER: 100 MM; CONNECTION: FLANGE; MATERIAL: CS; DEGREE: 45 DEG; REFERENCE NO: P16768C; S.C.NO:- 3291/0233/87 FOR NEW DRY DUST PLANT	58985	Each	240
50	BEND, PIPE: OUTSIDE DIAMETER: 150 MM; CONNECTION: FLANGE; MATERIAL: CS; DEGREE: 45 DEG; REFERENCE NO: P16768C; SC NO:- 3291/0233/86 FOR NEW DRY DUST PLANT	58986	Each	480
51	BEND, PIPE: OUTSIDE DIAMETER: 200 MM; CONNECTION: FLANGE; MATERIAL: CS; DEGREE: 45 DEG; SUPPL P/N: P16568C; SC NUMBER 3291/0233/85; FOR NEW DRY DUST PLANT	58987	Each	240
52	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 1 M; WIDTH: 1 M; MATERIAL: CORK/NEOPRENE; REFERENCE NO: GR53; IMPREGNATED; NEOLONGITE GRADE 53 COMPOSITION	94320	Each	300
53	SHEET, GASKET: THICKNESS: 6.5 MM; LENGTH: 1.27 M; WIDTH: 660 MM; MATERIAL: CORK NEOPRENE IMPREGNATED; GRADE: 53	94322	Each	300
<u>TRANSFER SILO</u>				
54	FILTER, BAG: TYPE: SLEEVE; DIMENSIONS: DIA 123 MM X LG 3 M; MATERIAL: MEMBRANE PTFE; PPS NEEDLE FELT; MICRON: 1; APPLICATION: TRANSFER SILO FILTER BOX; SHAPE: CYLINDRICAL; OPEN END WITH FELT SEAL; FLAT END WITH TRIPLE SEAM; STAINLESS STEEL ANTI STATIC STRIP STICED TO FILTER BAGS; BAGS TO BE SUPPLIED IN CLEARLY MARKED PACKING	608640	Each	500
55	V BELT SET: NUMBER OF BELTS: 3; TOP WIDTH: 13 MM; OUTSIDE CIRCUMFERENCE: 1.9 M; SUPPL P/N: SPA13NX1900; TO BE BUNDLED AND MARKED, THICKNESS: 10MM, MATCHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	28677	Each	200

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56	VALVE, RELIEF: VALVE SIZE: 250 MM; SET PRESSURE: -33 TO 33 MBAR; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CS; FACE TO FACE LENGTH: FLAP; OPERATED: PRESSURE SWING; ORIFICE SIZE: 10 MM; SPECIFICATION: PROTEGO VD/SV-250; DESIGN RATING: 33 MBAR; PRESSURE RANGE: -33 TO 33 MBAR; FLOW CAPACITY AT DESIGN PRESSURE: 800 M3/HR; ALL FLOW RATES EXPRESSED IN 20 DEG C AIR; SUPPLY WITH 3.1 CERTIFICATE AND WITH CALIBRATION CERTIFICATE; DIN EN 1092-1; PN10 FORM B1; TRIM: HOUSING MODULE: 1.0619; SEAT: 316 SS/1.4571; COVER: 1.0425; GASKET: PTFE; WEATHER HOOD: SS; PROTECTIVE SCREEN: SS; BOLTS/NUTS: A4; THREADED PIN: A4; VALVE PALLET HOOD: 316 SS/1.4571; VALVE PALLET: 316 SS/1.4571; PIPE GUIDE: 316 SS/1.4571; PIN: 316 SS/1.4571; HEXAGON NUT: A4; SPINDLE GUIDE: 316 SS/1.4571; TRIM: HOUSING MODULE: 1.0619; SEAT: 316 SS/1.4571; COVER: 1.0425; GASKET: PTFE; WEATHER HOOD: SS; PROTECTIVE SCREEN: SS; BOLTS/NUTS: A4; THREADED PIN: A4; VALVE PALLET HOOD: 316 SS/1.4571; VALVE PALLET: 316 SS/1.4571; PIPE GUIDE: 316 SS/1.4571; PIN: 316 SS/1.4571; HEXAGON NUT: A4; SPINDLE GUIDE: 316 SS/1.4571; TRIM: HOUSING MODULE: 1.0619; SEAT: 316 SS/1.4571; COVER: 1.0425; GASKET: PTFE; WEATHER HOOD: SS; PROTECTIVE SCREEN: SS; BOLTS/NUTS: A4; THREADED PIN: A4; VALVE PALLET HOOD: 316 SS/1.4571; VALVE PALLET: 316 SS/1.4571; PIPE GUIDE: 316 SS/1.4571; PIN: 316 SS/1.4571; HEXAGON NUT: A4; SPINDLE GUIDE: 316 SS/1.4571	622612	Each	25
57	STRAINER, PIPING: TYPE: Y; DIMENSIONS: DIA 51 X LG 70 MM; PRESSURE RATING: 12 BAR; MATERIAL: SS GR 316; CONNECTION: NPT 1/4 IN; MICRON: 800; MESH: 100 MM; SPECIFICATION: BS 4504; SUPPL P/N: 16HP	622610	Each	100
58	DRYER: TYPE: COMPRESSED; MANUF P/N: A-DRY-60; HEATLESS ADSORPTION COMPRESSED AIR DRYER; FOR USE ON THE TRANSFER SILO; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	611928	Each	5
59	ACTUATOR, PNEUMATIC: PRESSURE RATING: 10 BAR; MODEL NO: AT05DA - F04-11; REFERENCE NO: E29-409; DOUBLE ACTION TTV; DN02-40-50MM COMPLETE WITH 50MM TTV BUTTERFLY VALVE; AIR TORQUE; FOR INLET ON DRY DUST BLOW TANK; TTV 50MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	66549	Each	50
60	ACTUATOR, PNEUMATIC: PRESSURE RATING: 1-10 BAR; TRAVEL: 1/4 TURN; MODEL NO: C 60 DA; FOR DRY DUST PLANT AT TRANSFER SILO OUTLET VALVE; SIZE 300MM OKUMURA BUTTERFLY VALVE; SUPPLY MOUNTING KIDS STAINLESS STEEL TO FIT ON VALVE; TYPE: DOUBLE ACTING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	220838	Each	25

CONTROLLED DISCLOSURE

**Supply and delivery of Dust Handling Plant on an As and
When Required Basis For A Period of Five (5) Years.**

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61	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 300 MM; DESIGN RATING: 980 KPA; TEMPERATURE RATING: 0-120 DEG C; CONNECTION: FLANGE; OPERATED: HANDWHEEL, GEARBOX; TRIM: SCS13; DISC SS; SEAT EPDM; GRADE: FC250; MODEL NO: 615X; REFERENCE NO: 300615XGO4S	66374	Each	50
62	DEFLECTOR: TYPE: PLATE; DIMENSIONS: WD 300 X LG 590 X HT 335 MM; MATERIAL: CI; APPLICATION: DOME VALVE 200 MM; SUPPL P/N: P16633A; REFERENCE NO: SC3291/0233/94; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	36270	Each	50
63	DEFLECTOR: TYPE: PLATE; DIMENSIONS: WD 185 X LG 270 X HT 175 MM; MATERIAL: CI; SUPPL P/N: P2183A; REFERENCE NO: 3291/0233/96; SIZE 100MM; FOR NEW DRY DUST PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	36269	Each	200
<u>BLOW TANK</u>				
64	DISC: TYPE: BOTTOM FLUIDIZING; DIMENSIONS: DIA 1.245 M; MATERIAL: STL; DRAWING NO: 190384 REV 1; 190384 REV C REV 1; FOR DRY DUST PNEUMATIC PLANT, TO ESKOM	38537	Each	72
65	JOINT, EXPANSION: TYPE: BELLOWS; SIZE: 17 MM; LENGTH: 18 MM; CONNECTION: FLANGE; MATERIAL: EPDM; DESIGN RATING: 10 BAR; APPLICATION: DUST HANDLING PLANT; FACE TO FACE LENGTH: 130 MM; PCD: 160 MM; HOLE: 8; HOLE DIA: M12; FLANGE MATERIAL: MS	576017	Each	140
66	COMPENSATOR: TYPE: AXIAL; REFERENCE NO: 307-221; NB 200; ND 16; LG 400MM; COMPRISING CONVOLUTION 11.212; INTERNAL SLEEVE MATERIAL SS 321; PIPE ENDS AND FLANGES TO BS 4504 TABLE 10/3 MS	54504	Each	96
67	DIAPHRAGM, VALVE: MATERIAL: EPDM; VALVE SIZE: 80 MM; FIG NO: 516; FOR RIENZI NON RETURN VALVE	68012	Each	72
68	DIAPHRAGM, VALVE: MATERIAL: EPDM; VALVE SIZE: 50 MM; FIG NO: 516; FOR RIENZI NON RETURN VALVE	68013	Each	50
69	VALVE, CHECK: TYPE: NON RETURN WAFER ,DUEL PLATE; VALVE SIZE: NB 100; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 100 DEG C; CONNECTION: FLANGE BS 4504, PN10 WAFER; BODY MATERIAL: DI; FACE TO FACE LENGTH: 64 MM; OPERATED: SPRING LOADED; SOFTGOODS: SEAL EPDM	629433	Each	120
70	NOZZLE: TYPE: REDUCER; SIZE: 500 MM; CONNECTION: FLANGE; MATERIAL: STEEL; DRAWING NO: WS0001 REV 1; BLOW TANK VENT PIPE, ROTOK	58505	Each	50

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71	VALVE, RELIEF: VALVE SIZE: 50 MM; SET PRESSURE: 5 BAR; TEMPERATURE RATING: 232 DEG C; CONNECTION: BSP X FBSP; BODY MATERIAL: BRZ; TRIM: BRZ; OPERATED: AIR PRESSURE; DESIGN RATING: 24 BAR; PRESSURE RANGE: 0-5 BAR; REFERENCE NO: RA 2583; DLM-BAILEY BURKET POP TYPE SAFETY; COMPLETE WITH LIFTING LEVER; TO BE USED AT DRY DUST BLOW TANK UNIT 1 TO 6	224691	Each	84
72	VALVE, RELIEF: VALVE SIZE: 50 MM; SET PRESSURE: 4.8 BAR; TEMPERATURE RATING: 232 DEG C; CONNECTION: BSP X FBSP; BODY MATERIAL: BRZ; TRIM: BRZ; OPERATED: AIR PRESSURE; DESIGN RATING: 24 BAR; PRESSURE RANGE: 0-4.8 BAR; REFERENCE NO: RA 2585; DLM-BAILEY BURKET POP TYPE SAFETY VALVE, COMPLETE WITH LIFTING LEVER, TO BE USED AT DRY DUST BLOW TANK UNIT 1 TO 6	224692	Each	84
73	VALVE, GATE: VALVE SIZE: 200 MM; TYPE: KNIFE; CONNECTION: WAFER FLANGELESS; FACE TO FACE LENGTH: 68 MM; BODY MATERIAL: CI; TRIM: BLADE SS GR 316L; OPERATED: CYLINDER PNEUMATIC, DOUBLE ACTING; SOFTGOODS: VITON; STEM DESIGN: RISING SPINDLE; STYLE: PILLAR; TEMPERATURE RATING: 95 DEG C; DESIGN RATING: 600 KPA; SUPPL P/N: LDCCINWR; REFERENCE NO: LDC-CI-NWR; STAINLESS STEEL 304 L; TRIM NI-HARD WEAR RING; WITH 4 HOLES ON BOTH SIDE OF FLANGE TO BE TAPPED SIZE 20 MM; RUBBER LINED BORE; VITON MOULDED BODY SEAL; COMBINATION STUFFINGBOX AND TRANVERSE SEAL ARRANGEMENT; MOUTNING BETWEEN FLANGES TO BS450T10/3; PNEUMATIC; CYLINDER BARREL OF FIBER GLASS WITH END PLATES; TIE RODS; ADJUSTABLE CLEVIS OF 4PILLAR CONSTRUCTION OF MILD STEEL ELECTRO GALVANIZED; CYLINDER PROTECTION COVER OF PVC; CYLINDER SEAL OF NITRILE RUBBER; COMPLETE WITH 2 MOUNTING BRACKETS; WITH STRIKER ARM FOR PROXIMITY SWITCHES	66546	Each	70
74	DIVERTER: TYPE: DRY DUST; DRAWING NO: AA241 REV 0; BRANCH BALL: 200MM; 8BAR; FLANGE BS 4504; TABLE 10; 8INCH; 270 DEGREE CELCIUS; MATERIAL: ALLOY STEEL; BS 3100-BW2; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	571082	Each	25
75	BEND, PIPE: OUTSIDE DIAMETER: 227 MM; CONNECTION: FLANGE; MATERIAL: STL; DEGREE: 90; RADIUS: 247 MM; SPECIFICATION: BS3100-BW2; FOR DRY DUST PLANT; ID 200MM; FLANGE BS 4504	571081	Each	50
76	BEND, PIPE: OUTSIDE DIAMETER: 107 MM; CONNECTION: FLANGE; MATERIAL: BS3100-BW2; DEGREE: 90; RADIUS: 200 MM; MEDIA FOR WHICH DESIGNED: DRY DUST; DRAWING NO: AA298 REV 0; FLANGE BS4504 TABLE 10; ID: 80MM	576010	Each	25

CONTROLLED DISCLOSURE

MAIN SILO COMPLEX				
77	RING, RETAINING: DIMENSIONS: ID 241 X OD 251 X THK 5 MM; TYPE: INTERNAL; MATERIAL: ALUMINIUM; REFERENCE NO: FRB10-290; LOCATING	32088	Each	50
78	SLEEVE, ADAPTOR: TYPE: BEARING; SHAFT SIZE: 150 MM; LENGTH: 122 MM; MATERIAL: STEEL; SUPPL P/N: H3134; SUPPLIER NOTE - THE ITEM MUST BE ORIGINAL PACKED AND MARKED; SIZE 220 MM OD; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	30138	Each	50
79	COLLAR: DIMENSIONS: ID 241 X OD 251 X THK 10 MM; MATERIAL: ALUMINIUM; TYPE: SEALING; SUPPL P/N: TS 34	34932	Each	50
80	OIL, INDUSTRIAL: CONTAINER: DRUM 210 L; FLASH POINT: 232 DEG C; TYPE: GEAR; TRADE NAME: GENGEAR 320; VISCOSITY RATING: 305 AT 40 DEG C; GRADE: ISO VG320; SUPPL P/N: GENGEAR 320; ESKOM SPECIFICATION GGSS 0862; LUBE CODE OGI-320; GENGEAR 320	161550	Each	50
81	COUPLING: TYPE: INPUT DRIVE; SIZE: OD 230 MM; SUPPL P/N: 422TVB; REFERENCE NO: VTK; ROUGH BORE; FOR VOITH TURBO FLUID	26434	Each	25
82	PADDLE: TYPE: ASH CONDITIONER; DIMENSIONS: WD 550 X LG 410 X THK 28 MM; MATERIAL: TIVAR CERAM P; DRAWING NO: 28-45/55240 REV 0; APPLICATION: ASH PLANT; HOLE: 4; HOLE DIA: 20MM; PADDLE CUT AND DRILLED IN ACCORDANCE TO KRIEL DRAWING NUMBER AND SHOULD BE CLEARLY MARKED ON THE MATERIAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	576016	Each	500
83	IMPELLER, FAN: DIAMETER: 700 MM; BORE: 320 MM; MATERIAL: STL; MODEL NO: HBC315-1.0; FOR USE WITH EVACUATING FAN ACE, CLASS 1V, VOLUME 100M3/MIN STATIC PRESSURE, MAX 3500PA, STATIC PRESSURE OPERATING 3000PA, ABSORBED POWER 5.9KW AT 20DEGREES CELSIUS, 2100RPM; WD 66.5MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	44489	Each	25
84	BEARING, ROLLER: TYPE: SELF ALIGNING; SPHERICAL; INSIDE DIAMETER: 55 MM; OUTSIDE DIAMETER: 100 MM; WIDTH: 25 MM; ROW: DOUBLE; MODEL NO: 22211 CCK; NOTE - ITEM MUST BE ORIGINAL PACKED	30059	Each	50
85	SHAFT: TYPE: IMPELLER; LENGTH: 720 MM; MATERIAL HBC315-1 CLASS 1V, FOR USE WITH FAN TYPE ACE, 2100 RPM, AIR VOLUME 100 M3/MIN, 3500 KPA MAX STATIC PRESSURE, 5.9KW ABSORBED POWER AT 20 DEG C, NOTE: SIZE 50MM OD, ONLY ONE KEY WAY REQUIRE ON SHAFT, KEY WAY SIZE 14MM WD X 9MM THK X 100MM LG, TO BE SUPPLY WITH KEY	29170	Each	50

CONTROLLED DISCLOSURE

86	SLEEVE, ADAPTOR: TYPE: BEARING; SHAFT SIZE: 50 MM; LENGTH: 45 MM; MATERIAL: STEEL; SUPPL P/N: H311; SUPPLIER NOTE - THE ITEM MUST BE ORIGINAL PROTECTIVE PACKED AND MARKED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	30043	Each	72
87	HOUSING, BEARING UNIT: TYPE: PILLOW; BORE: ID 67 MM; MATERIAL: CI; SUPPL P/N: SNL511-609; SUPPLIER NOTE: THE ITEM MUST BE COMPLETE WITH A GREASE NIPPLE INSTALLED AND SHAFT SEALS.; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	34581	Each	72
88	VALVE, BUTTERFLY: VALVE SIZE: 300 MM; SOFTGOODS: LINER VITON; MANUF P/N: 300KTVPN16OK33N/300; TO FIT ACTUATOR KTV	172944	Each	30
89	GEARBOX: TYPE: BEW GEAR; RATIO: 40:1; SPEED: 1440 RPM; POWER: 55 KW; MODEL NO: 320-147; FOR USE WITH ASH CONDITIONERS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	176964	Each	25
90	RING: TYPE: FLEXIBLE; INSIDE DIAMETER: 115 MM; OUTSIDE DIAMETER: 202.6 MM; MATERIAL: RUBBER; SUPPL P/N: SC-07-230-0000; REFERENCE NO: SV230; FOR VOITH TURBO COUPLING	104548	Each	72
91	VALVE, GATE: VALVE SIZE: 400 MM; TYPE: KNIFE/SLIDE; CONNECTION: FLANGE; FACE TO FACE LENGTH: 400 MM; BODY MATERIAL: MILD STEEL; TRIM: SLIDE SS GR 304; SPINDLE EN 19; OPERATED: CHAIN, HANDWHEEL; SOFTGOODS: RUBBER; STEM DESIGN: NON RISING; STYLE: 2 WAY; TEMPERATURE RATING: 120 DEG C; DESIGN RATING: 600 KPA; SUPPL P/N: DL400B; SIZES PCD OF 480 MM; 535 MM SQUARE X 120 MM THK; KNIFE MATERIAL STAINLESS STEEL GRADE 304; NUT BRASS; FOR THE USE OF ISOLATION OF FLY ASH AT MAIN SILO PLANT	224357	Each	25
92	CARTRIDGE: TYPE: COOPER BEARING MAINTENANCE; MATERIAL: STL; DIMENSIONS: 150 MM; APPLICATION: ASH CONDITIONER; REFERENCE NO: 01 C 150; SERIES 01; WITH 150MM SHAFT SIZE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	230241	Each	50
93	HOUSING, BEARING UNIT: TYPE: PEDESTAL; MATERIAL: STL; SIZE 181MM HT, P10 TYPE AND SERIES 01, SUITABLE FOR ASH CONDITIONERS, WITH 150MM SHAFT SIZE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	230239	Each	50
94	PAD: TYPE: AERATION; DIMENSIONS: WD 270 X LG 800 X THK 4.5 MM; REFERENCE NO: E300; FLUITEX MEMBRANE CLOTH; 27 METRE LONG IN ROLL	52910	Each	50

CONTROLLED DISCLOSURE

**Supply and delivery of Dust Handling Plant on an As and
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95	DISTRIBUTOR: TYPE: ROTARY AIR; SUPPL P/N: 285249; 4 PART; TYPE MA; 10 VOLT; ITEM 26; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	177760	Each	25
96	V BELT SET: NUMBER OF BELTS: 3; SUPPL P/N: VB17X11X2200; TO BE BUNDLED AND MARKED AS A SET, MATCHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	28772	Each	50
97	FILTER, BAG: DIMENSIONS: 500 MM X LG 1.5 M; SUPPL P/N: IP22115568; FELT SEAL OPEN END, CLOSED FLAT OTHER END, ONE SET IS 40 EACH, FOR USE ON THE TRANSFER AND MAIN SILO, THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	66326	Each	1200
98	PLUG, FUSIBLE: CORE MATERIAL: STEEL; SIZE: 18 MM; TEMPERATURE RATING: 140 DEG C; TYPE: UNIVERSAL; HEXAGON AND ALLEN KEY HEAD COMBINED; WITH SEALING RING FOR VOITH COUPLING 422; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	37196	Each	50
99	PUMP, CENTRIFUGAL: NPSH: 1.6 M; CAPACITY: 187.3 L3/HR; TOTAL HEAD: 15.3 M; SIZE: 150 X 125 MM; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: BLENDING; SPECIFICATION: DIN 2532; MOUNT: PEDESTAL; SHAFT DIAMETER: 32 MM; SUPPL P/N: 150-125-250; WATER PUMP DELIVERING 187.3M3/H AT NOMINAL HEAD 15.3M AT 16 BAR WITH IMPELLER DIAMETER 231MM; CAST IRON; CASING CAST IRON; SHAFT DIA 10MM CARBON STEEL; SHAFT SLEEVE MATERIAL SS316; WEARING RING CAST IRON; SHAFT SEAL GLASS FIBRE AND PTFE COVERING	611738	Each	25
100	PUMP, CENTRIFUGAL: NPSH: 4 M; CAPACITY: 19-35 CM/HR; TOTAL HEAD: 39-163 M; SIZE: 65 X 50 MM; SPEED: 1450 RPM; STAGE: 5; DRIVER: ELECTRIC MOTOR 30 KW; REFERENCE NO: 64584-431; MAIN SILO HIGH PRESSURE	232761	Each	25
101	IMPELLER, PUMP: DIAMETER: 165 MM; INLET: SINGLE; MATERIAL: CI; THICKNESS: 33 MM; SHAFT SIZE: 35 MM; SUPPL P/N: WKLN 50/5; SUPPLIER NOTE: THE ITEM MUST BE PROTECTIVE PACKED, SEALED AND CLEARLY MARKED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	185371	Each	50
102	SLEEVE, SHAFT: TYPE: PROTECTION; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 45 MM; LENGTH: 93 MM; MATERIAL: STL; SUPPL P/N: 524-2; MODEL NO: WKLN 50-5; FOR KSB PUMP	44211	Each	50
103	SLEEVE, SHAFT: TYPE: PROTECTIVE; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 45 MM; LENGTH: 118 MM; MATERIAL: STL; SUPPL P/N: 524-1; MODEL NO: WKLN 50-5; FOR KSB PUMP	44210	Each	50

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104	SLEEVE, SHAFT: TYPE: STAGE; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 45.7 MM; MATERIAL: STL; SUPPL P/N: 521; MODEL NO: WKLM50/5; FOR KSB PUMP WKLN 40/5, TO BE USED ON ASH PUMP SEAL WATER PUMP; 22MM WD	44212	Each	50
105	COVER: TYPE: DE; DIMENSIONS: ID 49 X OD 100 X THK 15 MM; MATERIAL: GG25; APPLICATION: BEARING; MANUF P/N: 20232; BUILD REF:360	571087	Each	50
106	COVER: TYPE: NON DRIVE END; DIMENSIONS: ID 95 X OD 95 X THK 28 MM; MATERIAL: GG55; APPLICATION: BEARING; BUILD REF:361	571086	Each	50
107	SHAFT, PUMP: LENGTH: 790 MM; MATERIAL: 080M40Q; NOMINAL DIAMETER: 35 MM; END STYLE 1: KEYWAY; END STYLE 2: THREADED; APPLICATION: PUMP; TYPE: MULTI STG; SUPPL P/N: ZA024310; KSB.WKIN; HORIZONTAL; HIGH PRESSURE; CENTRIFUGAL; SHAFT COMPLETE WITH KEYS; NUT WITH TWO FLATS 920.4, CIRCLIPS ½ AND KEYS 940.1/.3/.4/.5/.6; BUILD:210	571084	Each	50
108	CASING, PUMP: TYPE: SUCTION; PUMP SIZE: 50 MM; MATERIAL: GG25; PUMP TYPE: KSB WKLN 50/5; MANUF P/N: 20102; APPLICATION: MAIN SILO PUMPS; BUILD REF:106; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	576009	Each	50
109	CASING, PUMP: TYPE: DISCHARGE; PUMP SIZE: 50 MM; MATERIAL: GG25; PUMP TYPE: KSB WKLN 50/5; MANUF P/N: 20132; APPLICATION: MAIN SILO PUMPS; BUILD REF:107; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	576008	Each	50
110	DIFFUSER: TYPE: INTERMEDIATE STG; DIMENSIONS: ID 46 X OD 215 X LG 44 MM; MATERIAL: STL; SUPPL P/N: 171-1; MODEL NO: WKLN 50/5; FOR KSB PUMP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	44209	Each	50
111	KIT, PUMP REPAIR: TYPE: SEAL WATER; APPLICATION: PUMP; COMPRISING: GASKET; O-RING; MODEL NO: WKLN 65/3	100258	Each	50
112	RING, WEAR: INSIDE DIAMETER: 90 MM; OUTSIDE DIAMETER: 105 MM; THICKNESS: 8 MM; MATERIAL: STL; SUPPL P/N: 502; MODEL NO: WKLN 50/5; FOR KSB PUMP	44206	Each	50
113	HOUSING, BEARING UNIT: TYPE: MAIN SILO PUMP; BORE: ID 80 MM; MATERIAL: STL; BLOCK SIZE: ID 100 X OD 165 MM; BOLT MOUNTINGS: 4; BOLT DIAMETER: M12; MANUF P/N: 20211; BUILD REF 350.1/2; GG-25; KSB WKLN 50/5 PUMP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	571083	Each	50

CONTROLLED DISCLOSURE

114	DEFLECTOR: TYPE: FLINGER 545; DIMENSIONS: ID 42 X OD 70 X THK 5 MM; MATERIAL: STL; APPLICATION: PUMP; MANUF P/N: 10992; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	571088	Each	50
115	GASKET SET: TYPE: PUMP; MANUF P/N: 24802; WKLN 50/5 PUMP; BUKD REF 400; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	572224	Each	50

3.1.2 DESIGN LIFE

The design life of the plant is till end of Kriel Power Station life 2038.

DOCUMENTATION SUBMISSION AND RECORDING

The supplier is to provide the following documentation.

- Material certificates
- Quality Control Process files with quality plans followed (for quality assurance during handling)

3.2 STANDARDS, SPECIFICATIONS AND PROCEDURES

Refer to Normative and Informative references.

4. ACCEPTANCE

This document has been seen and accepted by:

Name	Designation
Rofhiwa Nelwamondo	Engineering Manager
Neo Muthavhine	Auxiliary Engineering Manager
Luyolo Gajana	MMD Line Manager
Amos Dlodlu	MMD Senior Supervisor
Daniel Mahlangu	MMD Senior Supervisor
Nyadi Tjia	Middle Manager Procurement
Macmillan Mashele	Senior Technician-Material Handling
Snethemba Dikolomela	Senior Advisor-Technical Support
Michael Meso	Senior Advisor Contract Management
Samuel Mophuting	Senior Advisor Contract Management
Sandile Sikhakhane	Procurement Manager
Thabang Sehlare	Senior Engineer-Auxiliary Engineering
Shyne Munisi	Mechanical Engineer-Auxiliary Engineering

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5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2024	0	T Ndlovu	Draft
November 2024	1	T Ndlovu	First Revision
December 2024	2	M Shilabe	Revocation of duplicates and materials that are already contracted

6. DEVELOPMENT TEAM

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

- Thulani Ndlovu
- Marvin Shilabe

7. ACKNOWLEDGEMENT

- Mechanical Maintenance Department for sharing spares required.
- Contract Management for conducting due diligence on the proposed spares list to ensure there are duplicated spares in other contracts.

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