

Updated Scope of work: Tenderers to use the latest version of the NEC

PART 3: SCOPE OF WORK

Document reference	Title	No of pages
	This cover page	1
C3.1	Purchaser's Goods Information	11
C3.2	Supplier's Goods Information	1
	Total number of pages	13

C3.1: *PURCHASER'S* GOODS INFORMATION

Contents

Part 3: Scope of Work	1
C3.1: <i>Purchaser's</i> Goods Information	2
1 Overview and purpose of the <i>goods</i> and <i>services</i>.....	4
2 Specification and description of the <i>goods</i>	4
2.1 <i>Purchaser's</i> design.....	21
2.2 Procedure for submission and acceptance of <i>Supplier's</i> design	21
2.3 Other requirements of the <i>Supplier's</i> design.....	21
2.4 Use of <i>Supplier's</i> design	21
2.5 Manufacture & fabrication	21
2.6 Factory acceptance testing (FAT)	21
2.7 Other tests and inspections and commissioning in place of use	21
2.8 Operating manuals and maintenance schedules	21
3 Supply Requirements	21
4 Specification of the <i>services</i> to be provided	21
5 Constraints on how the <i>Supplier</i> Provides the Goods	21
5.1 Programming constraints	21
5.2 Work to be done by the Delivery Date	22
5.3 Marking the <i>goods</i>	22
5.4 Constraints at the delivery place and place of use	22
5.5 Cooperating with Others	22
5.6 Services & other things to be provided by the <i>Purchaser</i> or <i>Supplier</i>	22
5.7 Management meetings.....	22
5.8 Documentation control	22
5.9 Health and safety risk management.....	23
5.10 Environmental constraints and management.....	24
5.11 Quality.....	24
5.12 Invoicing and payment.....	25
5.13 Insurance provided by the <i>Purchaser</i>	25
5.14 Contract change management	25
5.15 Provision of bonds and guarantees.....	25
5.16 Records of Defined Cost, payments & assessments of compensation events to be kept by the <i>Supplier</i> 25	
6 Procurement	25
6.1 Subcontracting	25

6.1.1	Preferred subcontractors	26
6.1.2	Limitations on subcontracting	26
6.1.3	Spares and consumables	26
6.1.4	Other requirements related to procurement.....	26
6.1.5	Cataloguing requirements by the <i>Supplier</i>	26
	Not applicable.....	26
7	List of drawings.....	26
7.1	Drawings issued by the <i>Purchaser</i>	26
C3.2	Supplier's Goods Information	27

1 Overview and purpose of the *goods and services*

The purpose is to procure high-quality, reliable Packing and Gaskets that meet the specified technical and operational requirements to support maintenance and operational needs. This supply is critical to ensure the continuous and efficient operation of equipment at the power station while minimizing downtime due to component failures.

The scope outlines the responsibilities, deliverables, standards, and quality assurance requirements for the supplier to ensure a successful and timely delivery.

2 Specification and description of the *goods*

ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
1	1779	INSERT: TYPE: MATERIAL; DIMENSIONS: WD 1.2 M X LG 11 M X THK 3 MM; MATERIAL: RUBBER; COLOUR: BLACK	RUBBER INSERTION 10MTR ROLLS	EA	1,700
2	22316	PACKING, PREFORMED: INSIDE DIAMETER: 14-3/4 IN; OUTSIDE DIAMETER: 16-3/4 IN; THICKNESS: 1-5/8 IN; TYPE: PRESSURE SEAL; MATERIAL: GRAPHITE; REFERENCE NO: 6682141; FOR USE ON BOILER CIRCULATING PUMP SUCTION AND DELIVERY VALVES; DURANCE TYPE NO P391E160X01; SIZE 370MM ID X 425MM OD X 40MM THK; SHAPE: RECTANGULAR RING;		EA	10
3	39546	ROPE: MATERIAL: MANILA; DIMENSIONS: DIA 13 MM X LG 220 M; STRENGTH: 13.7 KNM; 41MM CIRCUMFERENCE, IN COIL(+25KG), TO SABS 911-1971, ROLL	MANILA ROPE	EA	150
4	42361	GASKET, RING JOINT: INSIDE DIAMETER: 105 MM; OUTSIDE DIAMETER: 114 MM; THICKNESS: 1 MM; MATERIAL: CU; SUPPL P/N: 10500-27; BROOMWADE COMPRESSOR; SHAPE: RING; TYPE: COMPRESSOR		EA	30
5	94033	GASKET, RING JOINT: INSIDE DIAMETER: 1.65 M; OUTSIDE DIAMETER: 2 M; THICKNESS: 6 MM; MATERIAL: TETRAGLASS T; DRAWING NO: 526 REV 1; COMPLETE WITH STEPPED JOINT, FOR USE WITH TUBE MILL TRUNION, WITH 36 HOLES 18MM DIAMETER ON 1960MM PITCH CENTRE DIAMETER, SEALS MUST BE DELIVERED AND BUILT ONTO PLATE AND TUTUKA WILL SUPPLY PLATE, ARNOT TO BE SUPPLIED WITH THE COMPLETE ITEM, SEALS NOT BUILT ONTO PLATE; SHAPE: ROUND; TYPE: SEAL AIR	LAMINATED TEXO 2000	EA	30

6	94258	MATERIAL: TYPE: INSERTION; DIMENSIONS: WD 1.245 M X THK 6.3 MM; COMPOSITION: RUBBER; COLOR: BLACK;		EA	2,000
7	97250	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 145 MM; OUTER RING OUTSIDE DIAMETER: 182 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; FLEXITALIC, FOR USE ON SFPT LEAK OFF VALVE, STL SIZE 274MM OD X 130MM I.D. X 3MM THK, PACKING INSERT SIZE AS ABOVE (TOP); SIZE: 5MM THK		EA	20
8	97312	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 85 MM; OUTER RING OUTSIDE DIAMETER: 116 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; 6.4MM THK		EA	20
9	97413	PACKING, BULK: WIDTH: 13 MM; THICKNESS: 13 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; SUPPL P/N: 3013; MAXI STYLE 140G, PERMANITE 261, IMPACT BRAND		EA	30
10	100924	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 254 MM; OUTER RING OUTSIDE DIAMETER: 315 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, SHOULD NOT BE LIABLE TO PRESSURE, FOR ELECTRIC FEED PUMP DISCHARGE PIPE FLANGE, STEAM; SIZE: 4.5MM THK		EA	20
11	100925	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 87 MM; OUTER RING OUTSIDE DIAMETER: 103 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, SHOULD NOT BE LIABLE TO PRESSURE, FOR ELECTRIC FEED PUMP DISCHARGE PIPE FLANGE, STEAM; SIZE: 4.5MM THK		EA	20
12	100954	PACKING, PREFORMED: INSIDE DIAMETER: 360 MM; OUTSIDE DIAMETER: 400 MM; THICKNESS: 20 MM; TYPE: RING; MATERIAL: GRAPHITE; SHAPE SEAL, OPERATING PRESSURE 300 DEGREES CELCIUS AND 250 BAR, COVERED IN PLASTIC;		EA	20
13	101029	PACKING, BULK: WIDTH: 12 MM; THICKNESS: 12 MM; MATERIAL: CARBON/GRAPHITE YARN; SHAPE: SQ; REFERENCE NO: 477-1; HP STEAM, NON ASBESTOS		EA	20

		IMPREGNATED, WITH MOLYBDENUM CORROSION INHIBITOR; SPECIFICATION TO BE CERTIFIED; TFE DISPERSION 14 PCT, LEACHABLE CHLORIDE ION CONTENT 71PPM MAX, SULPHUR 42PPM MAX, TOTAL SULPHUR 439PPM MAX, TOTAL CHLORIDE 100PPM MAX; PURITY OF YARN 91.59 PCT; PRESSURE LIMIT 250 BAR, TEMPERATURE LIMIT -40 DEGREE CELSIUS TO 566 DEGREE CELSIUS; SHAFT VELOCITY LIMIT 15M/SEC, PH 0 TO 13; PRODUCT BRAND			
14	101163	GASKET SET: APPLICATION: PUMP; SUPPL P/N: 4001/2; MODEL NO: ETA 150-400; REFERENCE NO: 400; FLAT;	K-SIL C4400 GASKETS	EA	20
15	101252	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 112 MM; OUTER RING OUTSIDE DIAMETER: 129 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 4MM THK		EA	30
16	101366	PACKING: TYPE: VALVE; MATERIAL: PTFE; SHAPE: V RING; PREFORMED KIT FOR CONTROL, TO FIT 1/2 INCH STEM A BODY, CONSIST OF 1 OF ITEM 6, 1R 2902-01012, B 1 OF ITEM 11 BOX 1J 8732-35072; DIMENSIONS: ID 12 X OD 25 X THK 33 MM	OEM VALVE KIT, FISHER	EA	70
17	101393	PACKING: TYPE: VALVE; MATERIAL: GRAPHITE; SHAPE: RD; FOR USE ON TYPE VKS11 15NB, TO CONSIST OF 6 RINGS PER SET; DIMENSIONS: ID 16 X OD 24 X THK 44 MM		EA	100
18	101394	PACKING, PREFORMED: INSIDE DIAMETER: 20 MM; OUTSIDE DIAMETER: 32 MM; THICKNESS: 50 MM; TYPE: ROUND; MATERIAL: GRAPHITE; GLAND FOR USE ON SEMPELL VALVE TYPE VKS11 20/25MM, TO CONSIST OF 6 PER SET;		EA.	120
19	101395	PACKING: TYPE: VALVE; MATERIAL: GRAPHITE; SHAPE: RD; PREFORMED, FOR USE ON TYPE VKS11 50NB, TO CONSIST OF 8 RINGS PER SET; DIMENSIONS: ID 29 X OD 45 X THK 78 MM		EA	70
20	101408	GASKET SET: TYPE: VALVE; APPLICATION: HP HEATER; SUPPL P/N: X362; REFERENCE NO: JB21177/8; FOR USE ON 6 INCH HP HEATER 3 TO CONDENSOR DRAIN CONTROL VALVE; MATERIAL SPEC 316 STAINLESS STEEL INSERT; INSIDE DIAMETER 150MM 6 INCH X 159MM OUTSIDE DIAMETER; R		EA	60

		GASKET X362; TEMPERATURE -325 TO 1100F (-198 TO 593); ORIGINAL SPARE FOR FISHER CONTROL VALVE; LEVEL 1 PLANT; QC: TURBINE SECTION 5108;			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
21	101409	GASKET SET: TYPE: VALVE; APPLICATION: HP HEATER DRAIN; SUPPL P/N: X272; REFERENCE NO: JB21167/8; FOR USE ON 3 INCH X 2 INCH 657 ED; HP HEATER DRAIN CONTROL VALVE 6-5; SIZE INSIDE DIAMETER 75MM X OUTSIDE DIAMETER: 82MM; R GASKET X272; TEMPERATURE -325 TO 1100F (-198 TO 593); ORIGINAL SPARE FOR FISHER CONTROL VALVE; LEVEL 1 PLANT; QC: TURBINE SECTION 5108;		EA	50
22	101410	GASKET SET: TYPE: VALVE; APPLICATION: HP HEATER DRAIN; SUPPL P/N: X282; REFERENCE NO: JB21175/76; FOR 4 X 2 INCH 657 ED HP HEATER DRAIN CONTROL VALVE; SIZE INSIDE DIAMETER: 100MM X OUTSIDE DIAMETER 115MM; R GASKET X282; TEMPERATURE -325 TO 1100F (-198 TO 593); ORIGINAL SPARE FOR FISHER CONTROL VALVE; LEVEL 1 PLANT;		EA	30
23	101411	GASKET SET: TYPE: VALVE; APPLICATION: HP HEATER DRAIN; SUPPL P/N: X352; REFERENCE NO: JB21179/80; FOR USE ON 4 INCH HP HEATER DRAIN CONTROL ON NO: 4 CONDENSOR; MATERIAL SPECS 316 STAINLESS STEEL INSERT; R GASKET X352; TEMPERATURE -100 TO 450F (-73 TO 232); ORIGINAL SPARE FOR FISHER CONTROL VALVE; LEVEL 1 PLANT; QC: TURBINE SECTION 5108;	OEM VALVE KIT, FISHER	EA	30
24	101412	GASKET, PRE CUT: DIMENSIONS: ID 128 X OD 141 X THK 1 MM; MATERIAL: GRAPHITE/STL; SHAPE: RD; SUPPL P/N: X212; SET, FOR USE ON FISHER VALVE 4 IN 657 ED, MATERIAL SPEC: 316 STAINLESS STEEL INSERT, R SET FOR 4 IN FISHER VALVES WITH SERIAL NUMBERS: JB21169 AND JB21174, USED AT HP HEATER DRAIN CONTROL VALVES (4-3) (5-3) (5-4), R GASKET X212, TEMPERATURE -325 TO 1100F (-198 TO 593), ORIGINAL SPARE FOR FISHER CONTROL VALVE, LEVEL 1 PLANT, OC: TURBINE SECTION 5108	OEM VALVE KIT, FISHER	EA	50
25	101444	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 113 MM; OUTER RING OUTSIDE		EA	10

		DIAMETER: 127 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, FOR USE ON HP HEATER ISOLATING VALVE BONNET; SIZE: 3.7MM THK			
26	101528	GASKET SET: APPLICATION: EFP/SFP LEAKOFF VALVE; REFERENCE NO: C9512-503; C1217-304; C9313-801; CONSISTING OF GASKETS, GLAND BUSH AND GLAND RING, TO BE PACKED, FOR USE ON 80MM VALVE TYPE M279420W;	SPIRAL WOUND GASKET CRIR A45A3M0S1969778	EA	20
27	101549	GASKET, SPIRAL WOUND: STYLE: CGI; INNER RING INSIDE DIAMETER: 154 MM; FILLER OUTSIDE DIAMETER: 209.6 MM; FILLER INSIDE DIAMETER: 174.6 MM; OUTER RING OUTSIDE DIAMETER: 317.5 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; REFERENCE NO: CGI; FACE, CENTERING RING MATERIAL CS, FOR USE ON PRESSURE REDUCING VESSEL FOR 100PCT EFP LEAK-OFF VALVE; SIZE: 317MM OD X 4MM THK		EA	20
28	101550	GASKET, SPIRAL WOUND: STYLE: CGI; INNER RING INSIDE DIAMETER: 77.8 MM; FILLER OUTSIDE DIAMETER: 120.7 MM; FILLER INSIDE DIAMETER: 92.1 MM; OUTER RING OUTSIDE DIAMETER: 196.9 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; SEALING FACE, CENTERING RING MATERIAL CS, FOR USE ON BOILER FEED PUMP (SFPT) AND EFP LEAK-OFF VALVE; SIZE: 77MM ID X 196MM OD X 4MM THK		EA	40
29	101551	GASKET, SPIRAL WOUND: STYLE: CGI; INNER RING INSIDE DIAMETER: 103.2 MM; FILLER OUTSIDE DIAMETER: 149.2 MM; FILLER INSIDE DIAMETER: 120.7 MM; OUTER RING OUTSIDE DIAMETER: 235 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; SEALING FACE, CENTERING RING MATERIAL CS, FLEXITALIC BRAND, FOR USE ON PRESSURE REDUCING VESSEL FOR 50PCT EFP LEAK-OFF VALVE FLEXITALIC; SIZE: 103MM ID X 235MM OD X 5MM THK		EA	20
30	101613	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NON ASB IMPREGNATED; SUPPL P/N: C-4430; KLINGERIT;		EA	300

		BS2815/1832A; COMPRESSED; MAX TEMP: 550 DEG C; PRESSURE RATING: 130 BAR; BULK; RECTANGULAR; TENDER RETURNABLES: GASKET SPECIFICATION SHEET;			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
31	101615	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NON ASB IMPREGNATED; SUPPL P/N: BROWN; KLINGERIT K80, BS2815/1832A, MAX TEMPERATURE 350 DEGREE C, PRESSURE 25 BAR, BULK, RECTANGULAR, BROWN		EA	700
32	101702	PACKING: TYPE: GLAND; MATERIAL: GRAPHITE; SHAPE: RD; REFERENCE NO: VA500-13-500-50-GS; FOR USE ON VALVE TYPE VA500.13.500.50.GS, STANDARD, CONSISTING OF SEVERAL RINGS; DIMENSIONS: ID 32 XOD 50 X HT 38 MM; TEMPERATURE RATING 566 DEGREE CELCIUS PRESSURE 250 BAR		EA	80
33	101719	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 1 M; WIDTH: 900 MM; MATERIAL: CORK/NBR; SUPPL P/N: TF72; FOR CORK ELASTOMER JOINTING SHEET; GRANULE SIZE: 0.5-1MM; SHORE A: 70-80; TENSILE STRENGTH: 330 PSI		EA	150
34	101723	INSULATION: DIMENSIONS: DIA 10 MM X LG 50 M; MATERIAL: CERAMIC FIBER; FORM: CORD; SUPPL P/N: ISOKERAM 1100; IN 100 METRE ROLLS, NO TERMINATIONS MATERIAL, INSULATING;	CERAMIC TWISTED ROPE	EA	1,700
35	101724	CORD: TYPE: INSULATING; LENGTH: 25 M; MATERIAL: CERAMIC FIBER; SUPPL P/N: ISOKERAM1100; SIZE: 25MM DIA; NO TERMINATIONS, IN 30 METRE ROLLS	CERAMIC TWISTED ROPE	EA	300
36	101725	TAPE, ELECTRICAL: WIDTH: 50 MM; LENGTH: 30 M; COLOR: GREEN LIGHT; SUPPL P/N: ISOTHERM800; DIMENSIONS: THK 2MM; MATERIAL: SYNTHETIC; TYPE: INSULATING	CERAMIC WEBBING TAPE	EA	2,700
37	101726	TAPE, ELECTRICAL: WIDTH: 75 MM; LENGTH: 30 M; COLOR: WHITE; SUPPL P/N: ISOTHERM800; THK 2MM; SYNTHETIC; INSULATING	CERAMIC WEBBING TAPE	EA	6,000
38	101727	TAPE: TYPE: WEBBING; DIMENSIONS: WD 100 MM X LG 30 M X THK 2 MM; COLOR: WHITE; SYNTHETIC	CERAMIC WEBBING TAPE	EA	4,500
39	101912	PACKING, BULK: WIDTH: 13 MM; THICKNESS: 13 MM; MATERIAL: NON ASB; SHAPE: SQ; STAG STYLE 2000DA		EA	2,000
40	101913	PACKING, BULK: WIDTH: 19 MM; THICKNESS: 19 MM; LENGTH: 9.14 M;		EA	700

		MATERIAL: GRAPHITE-FILLED EPTFE & ARAMID; APPLICATION: SLUICE AND ASH PUMP; MAX PRESSURE: 20 BAR; PH VALUE RANGE: 4.11; SPECIFICATION: DUAL 2211 CHESTERTON; TEMPERATURE RANGE: 260 DEG C; TYPE: BRAIDED; SHAPE: SQ; SUPPL P/N: STAG2000			
41	101970	PACKING, BULK: WIDTH: 8 MM; THICKNESS: 8 MM; MATERIAL: NON ASB OIL IMPREGNATED/PTFE; SHAPE: SQ; SUPPL P/N: 2000-08; STAG TO BE SUPPLIED IN 1KG BOXES		EA	50
42	102068	PACKING, BULK: WIDTH: 10 MM; THICKNESS: 10 MM; MATERIAL: CRYSOLYTE NON ASB PURE WHITE; TYPE: PLAITED; SHAPE: SQ; SUPPL P/N: 2000; REFERENCE NO: 2000; GRAPHITE TYPE, MINERAL LURICATION; ROLL	GLAND PACKING	EA	70
43	102072	PACKING, BULK: WIDTH: 16 MM; THICKNESS: 16 MM; LENGTH: 10 M; MATERIAL: GRAPHITE; SHAPE: SQ; SUPPL P/N: STAG2000-16	GLAND PACKING	EA	350
44	102230	PACKING, BULK: WIDTH: 12 MM; THICKNESS: 12 MM; MATERIAL: NON ASB; SHAPE: SQ; SUPPL P/N: STAG2000; TO BE SUPPLIED IN 25KG BOXES	GLAND PACKING	EA	900
45	103826	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 98.2 MM; OUTER RING OUTSIDE DIAMETER: 116 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 4.6MM THK		EA	10
46	103827	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 20 MM; OUTER RING OUTSIDE DIAMETER: 32 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; SIZE: 5MM THK		EA	10
47	103829	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 66 MM; OUTER RING OUTSIDE DIAMETER: 92 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 4.7MM THK		EA	10
48	103830	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 100 MM; OUTER RING OUTSIDE DIAMETER: 114 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL:		EA	10

		GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 6.8MM THK			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
49	103835	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 116 MM; OUTER RING OUTSIDE DIAMETER: 133 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510DEG C; SIZE: 5MM THK		EA	10
50	103837	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 108 MM; OUTER RING OUTSIDE DIAMETER: 143 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 5MM THK		EA	20
51	103838	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 235 MM; OUTER RING OUTSIDE DIAMETER: 255 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; SIZE: 5MM THK		EA	20
52	103839	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 142 MM; OUTER RING OUTSIDE DIAMETER: 162 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 4.5MM THK		EA	20
53	103844	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 293 MM; OUTER RING OUTSIDE DIAMETER: 323 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C, SIZE: 4.5MM THK		EA	20
54	103845	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 497 MM; OUTER RING OUTSIDE DIAMETER: 541 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING 510DEG C, WATER APPLICATION, USED ON HAYWARD TYLER MOTOR AND CASING; SIZE:	SPIRAL WOUND GASKET STYLE R	EA	30

		4.6MM THK			
55	103853	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 620 MM; OUTER RING OUTSIDE DIAMETER: 660 MM; PRESSURE RATING: 45 BAR; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX; SIZE: 6MM THK	SPIRAL WOUND GASKET STYLE R	EA	30
56	103862	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 102 MM; OUTER RING OUTSIDE DIAMETER: 174 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510DEG C, 5.5MM THK	SPIRAL WOUND GASKET STYLE R	EA	30
57	103866	GASKET, PRE-CUT: DIMENSIONS: ID 38 X OD 62 MM; THICKNESS: 3 MM; TYPE: OIL BURNER; MATERIAL: KLINGERITE GRAPHITE PSM; SHAPE: RD; PRESSURE RATING: 60 BAR; TEMPERATURE RATING: 200 DEG C; FLANGE RATING: ANSI 300; NOMINAL FLANGE SIZE: 62 MM; WEB PROFILE: ROUND; PCD: NONE; HOLES: 0		EA	2,000
58	103868	GASKET, RING JOINT: CROSS-SECTIONAL SHAPE: V; INSIDE DIAMETER: 164 MM; OUTSIDE DIAMETER: 195 MM; THICKNESS: 22 MM; MATERIAL: GRAPHITE; DRAWING NO: 26.41/36632 ITEM 4 REV 1; 26.41/36632 REV 1; HIGH PRESSURE SEAL, WITH STAINLESS STEEL REINFORCING, FOR USE ON AUXILIARY HEATING STEAM TO DEAERATOR STORAGE TANKS AND AUXILIARY STEAM TO BOILER FEED PUMP TURBINE AND LIVE STEAM TO DA STORAGE TANKS CONTROL V/V INLET ISOL V/V, CONSISTS OF TWO PARTS WITH A 45 DEGREE ANGLED FACE, FOR UNIT 1TO3		EA.	20
59	103869	GASKET, RING JOINT: CROSS-SECTIONAL SHAPE: V; INSIDE DIAMETER: 126 MM; OUTSIDE DIAMETER: 149 MM; THICKNESS: 20 MM; MATERIAL: GRAPHITE; DRAWING NO: 26.41/36632 ITEM 2 REV 1; 26.41/36632 REV 1; HIGH PRESSURE SEAL, WITH STAINLESS STEEL REINFORCING, FOR USE ON AIR EJECTORS QUICK START ISOLATING VALVE, CONSISTS OF TWO PARTS WITH A 45 DEGREES ANGLED FACE WITH OVERHAUL DIMENSIONS AS ABOVE, FOR UNIT 1 TO 3		EA.	20
60	103874	GASKET, RING JOINT: CROSS-		EA.	20

		SECTIONAL SHAPE: V; INSIDE DIAMETER: 360 MM; OUTSIDE DIAMETER: 400 MM; THICKNESS: 30 MM; MATERIAL: GRAPHITE; DRAWING NO: ESKOM ARNOT 26.41/36632 POS 178 REV 1; HIGH PRESSURE SEAL, WITH STAINLESS STEEL REINFORCING, FOR USE ON ELECTRIC FEED PUMP DISCHARGE MOTORIZE VALVE, CONSISTS OF TWO PARTS WITH 45 DEGREES ANGLED FACE WITH OVERHAUL DIMENSIONS AS ABOVE, FOR UNIT 1 TO 3			
61	103876	GASKET, RING JOINT: CROSS-SECTIONAL SHAPE: V; INSIDE DIAMETER: 296 MM; OUTSIDE DIAMETER: 334.5 MM; THICKNESS: 30 MM; MATERIAL: GRAPHITE; DRAWING NO: ESKOM 26.41/36632 POS 54 REV 1; PACKING, HIGH PRESSURE SEAL, WITH STAINLESS STEEL REINFORCING, FOR USE ON POS 54 LIVE STEAM TO DEAERATOR NRV, CONSISTS OF TWO PARTS WITH 45 DEGREES ANGLED FACE WITH OVERHAUL DIMENSIONS AS ABOVE, AS PER ESKOM ARNOT FOR UNIT 1 TO 6		EA.	20
62	103883	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 72 MM; OUTER RING OUTSIDE DIAMETER: 90 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: SS GR 304; SHAPE: ROUND; REFERENCE 304 SS, METAFLEX, ITEM 303 305; SIZE: 5MM THK		EA	20
63	103989	PACKING, PREFORMED: INSIDE DIAMETER: 40 MM; OUTSIDE DIAMETER: 66 MM; THICKNESS: 7 MM; TYPE: RECT RING; MATERIAL: CARBON; SUPPL P/N: C2001-13; REFERENCE NO: VDM500D; VDM500; FOR HIGH PRESSURE, BROOMWADE COMPRESSOR VALVE;		EA	30
64	104047	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 283 MM; OUTER RING OUTSIDE DIAMETER: 314 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE 5MM THK		EA	30
65	104062	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 342 MM; OUTER RING OUTSIDE DIAMETER: 364 MM; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS		EA	30

		STEEL; SHAPE: ROUND; METAFLEX JOINTS; SIZE: 5MM THK			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
66	104098	GASKET, SPIRAL WOUND: STYLE: SPIRAL WOUND; INNER RING INSIDE DIAMETER: 305 MM; FILLER OUTSIDE DIAMETER: 406 MM; FILLER INSIDE DIAMETER: 305 MM; OUTER RING OUTSIDE DIAMETER: 406 MM; PRESSURE RATING: 45 BAR; FILLER MATERIAL: NON ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; THICKNESS: 3.2 MM; JOINT, C/BLR; SIZE: 3.2MM THK	SPIRAL WOUND GASKET STYLE R	EA	30
67	104112	GASKET, RING JOINT: CROSS-SECTIONAL SHAPE: V; INSIDE DIAMETER: 280 MM; OUTSIDE DIAMETER: 300 MM; THICKNESS: 20 MM; MATERIAL: SS GRAPHITE LINED; SUPPL P/N: 05-1340-000; FOR USE ON PREHEATER PROTECTION BYPASS, MUST HAVE REINFORCING RINGS BUILT INTO THEM		EA	50
68	104113	GASKET, SPIRAL WOUND: STYLE: R; INNER RING INSIDE DIAMETER: 20 MM; OUTER RING OUTSIDE DIAMETER: 45 MM; PRESSURE RATING: 240 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, TEMPERATURE RATING: 510 DEG C; SIZE: 4MM THK		EA.	20
69	104141	PACKING, BULK: WIDTH: 25 MM; THICKNESS: 25 MM; LENGTH: 5 M; MATERIAL: NON ASB GRAPHITE LUBRICATED; TYPE: BRAIDED; SHAPE: SQ; CONSTRUCTION, STYLE G888W, TO BE SUPPLIED IN 5KG BOXES, GLASS YARN FIBER TO BE USED IN CONSTRUCTION		EA.	3,500
70	104143	PACKING, BULK: WIDTH: 28 MM; THICKNESS: 28 MM; LENGTH: 8.5 M; MATERIAL: NON ASB GRAPHITE LUBRICATED; TYPE: BRAIDED; SHAPE: SQ; SUPPL P/N: 8025; CONSTRUCTION STYLE G888W, TO BE SUPPLIED IN 5KG BOXES, GLASS YARN FIBER TO BE USED IN CONSTRUCTION,	GLAND PACKING	EA.	3,000
71	160096	COMPOUND, SEALING: TYPE: GASKET; COLOR: RED; CONTAINER: CARTRIDGE 280 ML; MATERIAL: RUBBER SI; REFERENCE NO: RTV 736; HIGH TEMPERATURE SILASTIC SEALANT; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY		EA.	1,500

		THE OCCUPATIONAL HEALTH AND SAFETY ACT			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
72	160266	COMPOUND, SEALING: TYPE: GASKET/JOINT; COLOR: BLUE UNIVERSAL; CONTAINER: TUBE 100 G; MATERIAL: POLYESTER URETHANE; SUPPL P/N: PL32M; CLAUSE: 1: PLEASE ENSURE THAT SHELF LIFE HISTORY AND EXPIRY DATES ARE DISPLAYED, 2: ITEMS SUBJECTED TO SHELF LIFE WILL NOT BE ACCEPTED TO ESKOM IF MORE THAN 25 PCT OF THE SHELF LIFE HAS ALREADY EXPIRED PRIOR TO DELIVERY; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT		EA.	200
73	172804	PACKING, BULK: WIDTH: 6 MM; THICKNESS: 6 MM; MATERIAL: CARBON FIBER; APPLICATION: PUMP AND VALVE; MAX PRESSURE: 250 BAR; PH VALUE RANGE: 0-13; TYPE: GENERAL SERVICE; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE		EA	150
74	172805	PACKING, BULK: WIDTH: 7.9 MM; THICKNESS: 7.9 MM; MATERIAL: CARBON FIBER; APPLICATION: PUMP AND VALVE; MAX PRESSURE: 250 BAR; PH VALUE RANGE: 0-13; TYPE: GENERAL SERVICE; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE		EA	160
75	172807	PACKING, BULK: WIDTH: 10 MM; THICKNESS: 10 MM; MATERIAL: CARBON FIBER; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE, NOTE - ITEM MUST BE ORIGINAL PACKED		EA	280
76	172808	PACKING, BULK: WIDTH: 12.7 MM; THICKNESS: 12.7 MM; MATERIAL: CARBON FIBER; APPLICATION: PUMP AND VALVE; MAX PRESSURE: 250 BAR; PH VALUE RANGE: 0-13; TYPE: GENERAL SERVICE; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE; NOTE - ITEM MUST BE ORIGINAL PACKED		EA	60
77	172809	PACKING, BULK: WIDTH: 14 MM; THICKNESS: 14 MM; MATERIAL: CARBON FIBER; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE, NOTE - ITEM MUST BE		EA.	250

		ORIGINAL PACKED			
78	172810	PACKING, BULK: WIDTH: 15.9 MM; THICKNESS: 15.9 MM; MATERIAL: CARBON FIBER; SHAPE: SQ; SUPPL P/N: 477-1; MUST BE ASBESTOS FREE, NOTE - ITEM MUST BE ORIGINAL PACKED		EA	100
79	180450	GASKET, PRE CUT: DIMENSIONS: DIA 75 X THK 0.5 MM; THICKNESS: 0.15 MM; TYPE: OIL BURNER NOZZLE BODY; MATERIAL: KLINGERITE; SHAPE: RD; PRESSURE RATING: 60 BAR; TEMPERATURE RATING: 200 DEG C; FLANGE RATING: ANSI 300; NOMINAL FLANGE SIZE: 50.8 MM; WEB PROFILE: ROUND; PCD: 56 MM; HOLES: 6; SPECIFICATION: NONE; SUPPL P/N: SAF003;	K-SIL C4400 GASKET	EA	400
80	182810	PACKING, BULK: WIDTH: 14.3 MM; THICKNESS: 14.3 MM; MATERIAL: GRAPHITE; SHAPE: SQ; SUPPL P/N: 3300G; MOLDED, TEMPERATURE NON-OXIDIZER -240 DEG C TO 3000 DEG C, APPLICATION CHEMICALS, STEAM, HYDROCARBON, FOR PUMPS AND VALVES PURPOSES, ITEM MUST BE ORIGINAL PACKED, 15 KG PER BOX	GLAND PACKING	EA	20
81	185887	GASKET, PRE CUT: DIMENSIONS: ID 840 X OD 899.9 X THK 46.5 MM; TYPE: HP HEATER; MATERIAL: GRAPHITE PURE 99 PCT; SHAPE: RD; SUPPL P/N: KLM30940; HIGH PRESSURE SEAL RING, WITH 0.9MM STAINLESS STEEL CAPS TOP AND BOTTOM (SS 316), MAX TEMPERATURE: 355DEG C, MAX PRESSURE: 333 BAR, FOR UNIT 1, 4 - 5, DRY STORAGE, WITH SEAL RING ENCLOSED IN PLASTIC, ID (WITH TOLERANCE OF + 0.1MM), THK(WITH TOLERANCE OF 0.3MM), DO NOT EXPOSE TO HEAT, DB THERMAL		EA	30
82	185888	GASKET, PRE CUT: DIMENSIONS: ID 770 X OD 840 X THK 45 MM; TYPE: HP HEATER; MATERIAL: GRAPHITE PURE 99 PCT; SHAPE: RD; PRESSURE RATING: 333 BAR; SUPPL P/N: SFA 34872/04; SEAL RING, 99PCT GRAPHITE WITH STAINLESS STEEL CAPS, TOP AND BOTTOM (SS 316), MAX TEMPERATURE: 355 DEG C, FOR UNIT 2 - 3, DRY STORAGE, SEAL RING KEPT ENCLOSED IN A PLASTIC, DO NOT EXPOSE TO HEAT		EA	50
83	185889	GASKET, PRE CUT: DIMENSIONS: ID 960 MM X OD 1.06 M X THK 45 MM; TYPE: HP HEATER; MATERIAL: GRAPHITE PURE 99 PCT; SHAPE: RD; PRESSURE RATING: 333 BAR; SUPPL		EA	50

		P/N: SFA 9053016/04; HIGH PRESSURE SEAL RING, WITH STAINLESS STEEL CAPS, TOP AND BOTTOM (SS GR 316), MAX TEMPERATURE:355 DEG C, USED ON UNIT 3, DRY STORAGE, SEAL RING ENCLOSED IN ITS PLASTIC WRAPPING, DO NOT EXPOSE TO HEAT, HAMEN SIBELCO			
84	185890	GASKET, PRE CUT: DIMENSIONS: ID 824 X OD 898 X THK 45 MM; TYPE: HP HEATER; MATERIAL: GRAPHITE PURE 99 PCT; SHAPE: RD; PRESSURE RATING: 333 BAR; TEMPERATURE RATING: 355 DEG C; SUPPL P/N: SFA 02893/04; HIGH PRESSURE SEAL RING, SS CAPS, TOP AND BOTTOM (SS 316), FOR UNIT 2 - 3, DRY STORAGE, WITH THE SEAL RING ENCLOSED IN PLASTIC, DO NOT EXPOSE TO HEAT		EA	30
85	211188	PACKING, BULK: WIDTH: 7.9 MM; THICKNESS: 7.9 MM; LENGTH: 8 M; MATERIAL: CARBON GRAPHITE; SHAPE: SQ; SUPPL P/N: G57; ONLY JOHN CRANE BRAND ACCEPTABLE, NOTE - THE ITEM MUST BE PROTECTED AND CLEARLY MARKED		EA.	10
86	211190	PACKING, BULK: WIDTH: 4.7 MM; THICKNESS: 4.7 MM; LENGTH: 8 M; MATERIAL: CARBON GRAPHITE; SHAPE: SQ; SUPPL P/N: G57; ONLY JOHN CRANE BRAND ACCEPTABLE, NOTE - THE ITEM MUST BE PROTECTED AND CLEARLY MARKED		EA.	30
87	211221	PACKING, BULK: WIDTH: 9.5 MM; THICKNESS: 9.5 MM; LENGTH: 8 M; MATERIAL: CARBON GRAPHITE; SHAPE: SQ; SUPPL P/N: G57; ONLY JOHN CRANE BRAND ACCEPTABLE, NOTE - THE ITEM MUST BE PROTECTED PACKED AND CLEARLY MARKED		EA	160
88	211222	PACKING, BULK: WIDTH: 15.8 MM; THICKNESS: 15.8 MM; LENGTH: 8 M; MATERIAL: CARBON GRAPHITE; SHAPE: SQ; SUPPL P/N: G57; ONLY JOHN CRANE BRAND ACCEPTABLE, NOTE - THE ITEM MUST BE PROTECTED PACKED AND CLEARLY MARKED		EA	30
89	221350	PACKING, BULK: WIDTH: 7 MM; THICKNESS: 2.5 MM; LENGTH: 15 MM; MATERIAL: PTFE; SHAPE: RECTANGULAR; SUPPL P/N: TEADIT 24B; TO BE USED AS A JOINT SEALANT ON FLANGES AND COVERS		EA.	500
90	223434	GASKET, PRE-CUT: DIMENSIONS: DIA 18 X THK 3 MM; TYPE: GENERATOR; MATERIAL: NYLON; SHAPE: RD;	NYLON GASKET	66 EA	20

		SUPPL P/N: 4KC100234P001			
91	223766	GASKET, PRE-CUT: DIMENSIONS: ID 1.02 M X OD 1.17 M X THK 3 MM; TYPE: GENERATOR STATOR COOLER; MATERIAL: FIBER; SHAPE: SQ; SUPPL P/N: 4KC124379P006	K-SIL C4400 RECTANGULAR GASKETS	EA	20
92	223767	GASKET, PRE-CUT: DIMENSIONS: ID 420 MM X OD 1.05 M X THK 3 MM; TYPE: H2 COOLER WATER BOX; MATERIAL: FIBER; SHAPE: RD; SUPPL P/N: 3KC118175P002	K-SIL C4400 RECTANGULAR GASKETS	EA	20
93	223768	GASKET, PRE-CUT: DIMENSIONS: ID 420 MM X OD 1.05 M X THK 3 MM; TYPE: H2 COOLER WATER BOX; MATERIAL: FIBER; SHAPE: SQ; SUPPL P/N: 3KC118175P003	K-SIL C4400 RECTANGULAR GASKETS	EA	50
94	237712	PACKING, BULK: WIDTH: 12.7 MM; THICKNESS: 12.7 MM; LENGTH: 8 M; MATERIAL: PRECOATED HIGH PURITY CARBON PAN FIBER YARN; APPLICATION: MILLS TRUNNION ARM GLANDS; MAX PRESSURE: 250 BAR; PH VALUE RANGE: 0-13; TEMPERATURE RANGE: 565 DEG C; TYPE: GLAND; LUBRICATION MATERIAL: GRAPHITE; SHAPE: SQ; SUPPL P/N: 87453621; STYLE 7740127/00074/00A; GOODS MUST BE DELIVERED WITH BATCH MATERIAL CERTIFICATE; GOODS MUST BE QUALITY INSPECTED BY MILLING PLANT MECHANICAL MAINTENANCE TECHNICIAN; TEMPERATURE RANGE: 900 DEG C (NON OXIDISING)		EA.	250
95	237713	PACKING, BULK: WIDTH: 15.8 MM; THICKNESS: 15.8 MM; MATERIAL: CARBON YARN; SHAPE: SQ; SUPPL P/N: 477-1		EA.	150
96	237715	PACKING, BULK: WIDTH: 9.5 MM; THICKNESS: 9.5 MM; MATERIAL: CARBON YARN; SHAPE: SQ; SUPPL P/N: 477-1		EA.	30
97	241327	PACKING, BULK: WIDTH: 20.6 MM; THICKNESS: 20.6 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0206/OC1065/00A		EA.	20
98	241328	PACKING, BULK: WIDTH: 14.2 MM; THICKNESS: 14.2 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0142/OC1065/00A		EA.	20
99	241329	PACKING, BULK: WIDTH: 17.4 MM; THICKNESS: 17.4 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0174/OC1065/00A		EA.	100
100	241330	PACKING, BULK: WIDTH: 19 MM; THICKNESS: 19 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0190/OC1065/00A		EA	20
101	241332	PACKING, BULK: WIDTH: 15.8 MM; THICKNESS: 15.8 MM; LENGTH: 8 M;		EA	150

		MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0158/OC1065/00A			
ITEM NO	MATERIAL	LONG DESCRIPTION	COMMENT	UNIT	QTY
102	241333	PACKING, BULK: WIDTH: 22.2 MM; THICKNESS: 22.2 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: PO222/OC1065/00A		EA	20
103	241334	PACKING, BULK: WIDTH: 12.7 MM; THICKNESS: 12.7 MM; LENGTH: 8 M; MATERIAL: GRAPHITE; SHAPE: SQ; REFERENCE NO: P0127/OC1065/00A		EA	60
104	253622	GASKET: TYPE: SUCTION STRAINER; DIMENSIONS: ID 1.596 M X OD 1.79 M X THK 3 MM; MATERIAL: KLINGERSIL C4324; HOLES: 40; SHAPE: ROUND; APPLICATION: CONDENSATE EXTRACTION PUMP; APE PUMP TYPE BDM; ITEM TO BE INDIVIDUALLY HARD BACKED PACKED TO PREVENT DAMAGE		EA	20
105	256624	PACKING, BULK: WIDTH: 10 MM; THICKNESS: 10 MM; LENGTH: 13.25 M; MATERIAL: AERO DRUM MATERIAL ONLY, NON- COMPRESSING WITH MEMORY; APPLICATION: PUMP MAXIMUM SHAFT SPEED 12 M/S; MAX PRESSURE: 56 BAR; TEMPERATURE RANGE: -40 TO 260 DEG C; TYPE: CARIER; SHAPE: SQ; SUPPL P/N: 99		EA	30
106	256625	PACKING, BULK: WIDTH: 12.7 MM; THICKNESS: 12.7 MM; LENGTH: 12.25 M; MATERIAL: AERO DRUM MATERIAL ONLY, NON- COMPRESSING; APPLICATION: PUMP MAXIMUM SHAFT SPEED 12 M/S; MAX PRESSURE: 56 BAR; TEMPERATURE RANGE: -40 TO 260 DEG C; TYPE: CARIER; SHAPE: SQ; REFERENCE NO: STYLE 99		EA	100
107	256627	PACKING, BULK: WIDTH: 15.8 MM; THICKNESS: 15.8 MM; LENGTH: 12 M; MATERIAL: AERO DRUM MATERIAL ONLY, NON-COMPRESSING; APPLICATION: PUMP MAXIMUM SHAFT SPEED 12 M/S; MAX PRESSURE: 56 BAR; TEMPERATURE RANGE: -40 TO 260 DEG C; TYPE: CARIER; SHAPE: SQ; REFERENCE NO: STYLE 99		EA	150
108	552888	PACKING, BULK: WIDTH: 16 MM; THICKNESS: 16 MM; LENGTH: 12 M; MATERIAL: GRAPHITE-FILLED EPTFE & ARAMID; APPLICATION: ASH WATER/SLURRY; MAX PRESSURE: 20 BAR; PH VALUE RANGE: 4-11; SPECIFICATION: DUAL 2211 CHESTERTON; TEMPERATURE RANGE: 260 DEG C; TYPE: BRAIDED;		EA	400

		LUBRICATION MATERIAL: FILCOAT; SHAPE: SQ; WEIGHT: 3.92 KG			
109	553036	PACKING, BULK: WIDTH: 12 MM; THICKNESS: 12 MM; LENGTH: 30 M; MATERIAL: CARBON YARN; SHAPE: SQ; MANUF P/N: 477-1; EFP DISCHARGE ISOLATING VALVE; MOLYBDATE CORROSION (PASSIVE) INHIBITOR; 1/8 THROUGH 6 MM CROSS SECTIONS OF PACKING SHALL BE SQUARE BRAIDED; MAX PRESSURE 3600 PSI (250 BAR); SHAFT VELOCITY LIMIT 3000 FPM (15 MPS); T: 1050 (566 DEG C); MINIMUM TEMPERATURE: 40 DEG C; PH RANGE: 0 TO 13; CHEMICAL INCOMPATABILITY ALKALI METALS AND STRONG OXIDISING AGENTS; LEVEL 1 PLANT MATERIAL CERTIFICATE TO BE SENT ON DELIVERY; NB: 2.8 KG PER BOX; 5 BOXES = 14 KG		EA	100
110	553041	PACKING, BULK: WIDTH: 10 MM; THICKNESS: 10 MM; LENGTH: 30 M; MATERIAL: CARBON YARN; SHAPE: SQ; MANUF P/N: 477-1; HPH 3 WAY QUICK CLOSING VALVE; MOLYBDATE CORROSION (PASSIVE) INHIBITOR; 1/8 INCH THROUGH 6 MM CROSS SECTIONS OF PACKING SHALL BE SQUARE AND BRAIDED; P: 3600 PSI (250 BAR); SHAFT VELOCITY LIMIT 3000 RPM (15 AMPS); T: 1050 F (566 DEG CELCIUS) MINIMUM TEMP: 40 DEG CELCIUS F: PH RANGE 0 TO 13 CHEMICAL INCOMPATIBILITY ALKALI METALS AND STRONG OXIDISING AGENTS; LEVEL PLANT MATERIAL CERTIFICATE TO BE SENT ON DELIVERY; NB: 2.8 KG PER BOX; 5 BOXES = 14 KG		EA	320
111	553811	PACKING: TYPE: PUMP; LENGTH: 8 M; WIDTH: 25 MM; MATERIAL: PTFE; THICKNESS: 25 MM; MANUF P/N: CISTK2503-8; PACKING CW PUMP; NON-ASBESTOS PACKING STYLE 2503 BRAIDED PACKING CONSTRUCTED OF WHITE ACRYLIC YARN WITH A LIBERAL AMOUNT OF PTFE LUBRICANT AND MINERAL OIL 8 M PER BOX		EA	30
112	585147	PACKING, PREFORMED: INSIDE DIAMETER: 32 MM; OUTSIDE DIAMETER: 50 MM; THICKNESS: 38 MM; TYPE: GLAND; MATERIAL: GRAPHITE; TEMPERATURE RATING: 566 DEG C; PRESSURE RATING: 250 BAR; PH: 0 TO 13; ROUND IN SHAPE;		EA	50
113	627275	GASKET: TYPE: SIDE FLANGE; DIMENSIONS: ID 60.3 MM X OD 1.02 M		EA	20

		X THK 4.5 MM; MATERIAL: GRAPHITE; SHAPE: ROUND; APPLICATION: HP HEATER WATERBOX; SUPPL P/N: 321/GRP			
114		SAFETY FILE (FIXED)		EA	1
115		SAFETY FILE (YEARS 2-5)		EA	4

2.1 Purchaser's design

Not applicable

2.2 Procedure for submission and acceptance of Supplier's design

The *Supplier* must supply as per the item description and as and when required to do so

2.3 Other requirements of the Supplier's design

Not applicable

2.4 Use of Supplier's design

Not applicable

2.5 Manufacture & fabrication

All materials to comply to Eskom standards

2.6 Factory acceptance testing (FAT)

The *Purchaser* may request FAT and material inspection

2.7 Other tests and inspections and commissioning in place of use

Quality control check will be done by the designated Arnot Power Station Representative when components are delivered on site before they can be booked into the Store (Receiving)

2.8 Operating manuals and maintenance schedules

Not applicable

3 Supply Requirements

The Supply Requirements for this contract are in an Annexure to the Contract Data provided by the *Purchaser*.

4 Specification of the services to be provided

All materials to comply with Eskom standards.

5 Constraints on how the Supplier Provides the Goods

5.1 Programming constraints

Not applicable

5.2 Work to be done by the Delivery Date

All goods are to be delivered as per the quantity required and quality check to be done after every delivery.

5.3 Marking the goods

Not applicable

5.4 Constraints at the delivery place and place of use

Deliveries can only be done during normal working hours unless the *Purchaser* requests the goods immediately in cases of emergency.

Normal working hours are as follows:

Monday-Thursday 07:00 – 16:15

Friday 07:00 – 12:00

5.5 Cooperating with Others

The *Supplier* must fully co-operate with the *Purchaser's* team during off-loading at the project site

5.6 Services & other things to be provided by the Purchaser or Supplier

Arnot Power Station will provide forklift and forklift driver for the loading and offloading of components on site and the supplier is to use his own resources to load and off load at his premises

5.7 Management meetings

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk registers and compensation events	As and when required	Material Management Boardroom	<i>Purchaser, Supplier, and Supply Manager</i>
Overall contract progress and feedback	As and when required	Material Management Boardroom	<i>Purchaser, Supplier, and Supply Manager</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Goods Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the manufacture of the *goods*. Records of these meetings shall be submitted to the *Supply Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

5.8 Documentation control

All documentation from the *Supplier* must be provided in hard copy and must also be emailed to the *Supply Manager*, as per the communication process agreed after contract award.

5.9 Health and safety risk management

The *Supplier* shall comply with the occupational health and safety Act 85 of 1993 requirements: all applicable procedures and standards in their recent revisions. Eskom Life Saving Rules and other Eskom safety rules and requirements not limited to:

- Driven Machinery Regulations
 - Fossil Fire Fuel regulations
 - Plant Safety Regulations
 - Working At Heights Standard
 - Regulation For Hazardous Chemical Agents
 - Confined space standard
 - Occupational Hygiene management
-
- Control of noise is through wearing hearing protection
 - Dust, dust suppression or as the last resort issue dust mask
 - Waste, put waste in the correct waste bin
 - Water to be conserve, use as little as possible
 - Submission of monthly health and safety statistics is mandatory
 - Adhere to all Eskom lifesaving rules

A. Road Safety

- a. Speed limit: 40km/h
- b. By passing Speed humps not allowed
- c. Transporting People at the back of the bakkie is not allowed
- d. Buckle up always
- e. Park only at demarcated areas

B. Sanitation

- a. Toilets for both genders are available at the plant

C. Emergency

- a. The emergency number for Arnot is 013 297 9222 Pax:5222
- b. Emergency alarms are tested every Wednesday 10H00

D. Access

Before access can be granted the following must be met:

- a. Safety file with all the requirements to be submitted and approved prior site establishment and access
- b. SHE Induction attendance is compulsory
- c. All applicable trainings, statutory requirements and guidelines to be strictly adhered to. Use safety file and OHS specification as reference

COMPULSORY COMPLIANCE TO 5 IDENTIFIED LIFE SAVING RULES:

Rule1: Open, Isolate, Test, Earth, Bond, and/or Insulate before touch
(That is, any plant operating above 1 000 V)

No person may work on any electrical network unless:

- He/she is trained and authorised as competent for the task to be done.
- A pre-task risk assessment to identify all risks and hazards has been conducted prior to any work commencing.
- An equipotential zone is created for each worker on the job site by earthing, bonding, and/or insulating according to approved procedures.
- All conducting material is connected, all staff on site wear electrical safety shoes, and insulating techniques are applied according to standards; and
- The authorised person (team leader) has certified and shown all team members that the apparatus is safe to work on.

Rule 2: Hook up on heights

Working at height is defined as any work performed above a stable work surface or where a person puts himself/herself in a position where he/she exposes himself/herself to a fall from or into.

No person may work at height where there is a risk of falling unless:

- A pre-task risk assessment to identify all risks and hazards has been conducted prior to commencing any work at height.
- He/she is appropriately trained.
- He/she is appropriately secured during ascending and descending and
- He/she is using an approved fall arrest system where applicable.

Rule 3: Buckle up

No person may drive any vehicle on Eskom business and/or on Eskom premises unless the driver and all passengers are wearing seat belts.

Rule 4: Be Sober

- 1 No person is allowed to work under the influence of drugs and alcohol.
- 2 "Under the influence" means the use of alcohol, drugs, and/or a controlled substance to the extent that
 - 1 He individual's faculties are in any way impaired by the consumption or use of the substances; or
 - 2 The individual is unable to perform in a safe, productive manner; or
 - 3 The individual has a level of any such substance in his/her body that corresponds to or exceeds accepted medical/legal standards; or
 - 4 The individual has a level of alcohol in his/her body that is greater than 0.02% blood alcohol concentration.

This includes any level of an illegal substance in the body, irrespective of when the substance was used.

Rule 5: Ensure that you have a permit to work

Where an authorisation limitation exists, no person shall work without the required Permit to Work (PTW), which is governed by the Plant Safety Regulations, Operating Regulations for High Voltage Systems (ORHVS) etc.

No plant is to be returned to service without the cancellation of all permits on that plant in accordance with procedure.

NB: In the case of live work, a "live work declaration form" is to be completed by the authorised person who is the person responsible for the safe execution of work according to relevant standards and procedures.

Please ensure that these rules are understood and communicated with the urgency that they deserve. If any of these rules are unclear or the consequences not understood, please do not hesitate to discuss it with Eskom.

We would like to continue our current partnership and therefore urge your support in the implementation and upholding of these rules.

5.10 Environmental constraints and management

The *Supplier* shall comply with the health and safety requirements contained the *Purchaser's* SHE Specification.

5.11 Quality

Quality check sheet should be in place.

- Conform to ISO standards, ISO 9001 Quality Management Systems, SANS 347, Pressure equipment Regulations (PER) and all applicable codes and or standards of manufacture.
- Be accompanied by the relevant inspection and test certificates, certificates of conformance, warranty documentation and safety data sheets etc.
- The *Supplier* must conduct rigorous checks to ensure all items meet the technical and dimensional requirements specified in the Packing and Gaskets list.
- Replacement of any defective or non-conforming items will be at the *Supplier's* expense

5.12 Invoicing and payment

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*,
- The contract number and title,
- *Supplier's* VAT registration number,
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule,
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT and
- (add others as required).

Detailed tax invoice, clearly showing: Eskom Holdings SOC LTD Electronic copy to Finance Shared Services Megawatt Park
--

5.13 Insurance provided by the *Purchaser*

Refer to Annexure B – Insurance to be provided by the *Purchaser*

5.14 Contract change management

Clause 6 Compensation events of the NEC3 Supply Contract will apply to all changes in this contract.

5.15 Provision of bonds and guarantees

Not applicable

5.16 Records of Defined Cost, payments & assessments of compensation events to be kept by the *Supplier*

All records and quality documentation must be provided in hard copy and must be electronically emailed to the *Supply manager*

6 Procurement

6.1 Subcontracting

6.1.1 Preferred subcontractors

Not applicable

6.1.2 Limitations on subcontracting

Not applicable

6.1.3 Spares and consumables

Not applicable

6.1.4 Other requirements related to procurement

Not applicable

6.1.5 Cataloguing requirements by the *Supplier*

Not applicable

7 List of drawings**7.1 Drawings issued by the *Purchaser***

Not applicable

C3.2 *SUPPLIER'S* GOODS INFORMATION

Not applicable