

	SCOPE OF WORK	DUVHA Power Station
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Title: **SOW for the Supply of gaskets and packing for outages**

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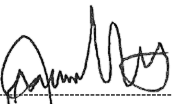
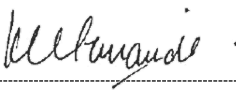
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N. Hallatt	Khanyi Nzimande	Maila Mamoleka
System Engineer	Turb Eng Manager	Eng Manager
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1. INTRODUCTION

Duvha Power Station has a large number of valves, pumps and flanges installed. Most of these uses some sort of packing or gasket.

2. SUPPORTING CLAUSES

2.1 Scope

This document outlines the Scope of Work (SOW) for the supply of gaskets and packing to be used during outages.

The objective of this scope is to define the requirements, processes, and deliverables for the gaskets and packing.

2.1.1 Purpose

The purpose is to give the scope of work for the gaskets and packing.

2.1.2 Applicability

Duvha Power Station.

2.1.3 Effective date

As soon as the order is placed.

2.2 Normative/Informative References

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

2.2.1 Normative

- [1] Occupational Health and Safety Act No. 85 of 1993,
- [2] QM58 - Suppliers contract quality requirements specification
- [3] 240-106628253 - Standard for Welding Requirements on Eskom Plant
- [4] SANS 10064: The preparation of steel surfaces for coating

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2.2.2 Informative

[5] 474-58 (Rev1): Document and Records Management

2.3 Definitions

2.3.1 Disclosure Classification

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

2.4 Abbreviations

Abbreviation	Explanation
NDT	Non-Destructive Testing
QA	Quality Assurance
QCP	Quality Control Plan
QM	Quality Manual
SANS	South African National Standards
SE	System Engineer
SHEQ	Eskom Safety, Health, Environment and Quality
WPQR	Welding Procedure Qualification Record
WPS	Welding Procedure Specification
WQR	Welder qualification record
WRT	Weir Reduction Technology

2.5 Roles and Responsibilities

Appointed Contractor – Execute the scope of work as per the employer's specification, with adherence to all standards prescribed in this document.

Project manager – To ensure that the supplier execute all the work specified in the scope of work on the set timelines.

System Engineer – The SE will review all works which is being executed and ensure that quality assurance and compliance.

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Eskom QC- Eskom QC will quality approve all repairs as per QCP and intervention points provided.

2.6 Process for Monitoring

Quality control process

3. SCOPE OF WORK – Gaskets and Packing Supply

Table 1 below lists the technical descriptions for the gaskets, packing and other items that are included in the scope of work. The supplier is responsible for reviewing all specifications and applying the correct stock descriptions.

The quantities indicated represent the amounts that must be supplied.

Duvha is committed to supporting South Africa's local manufacturing industry and therefore requires that a minimum of 60% of the gaskets be manufactured within South Africa. It is acknowledged that not all listed gaskets can be produced locally; therefore, up to 40% of the gaskets may be imported. All locally manufactured gaskets must comply with the latest applicable standards, as referenced in the *Informative References* section of this document.

See below for spares list for details.

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3.1 Sheet Gaskets

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Sheet Gaskets					
1.5mm sheet gasket green packing (Green)	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: FIBER; SUPPL P/N: C4324; KLINGERSIL; COLOUR ONE SIDE BLACK ONE SIDE GREEN	194143	50.00	150
3mm sheet gasket green packing (Green).	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: FIBER; SUPPL P/N: C4324; COLOUR ONE SIDE BLACK ONE SIDE GREEN; KLINGERSIL	194145	50.00	150
1.5mm Sheet Gasket Graphite Topgraph 2000 wire. Main condenser	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: GRAPHITE; REFERENCE NO: TOP GRAPH 2000 S/WIRE; GOOD RESISTANCE TO STEAM, RESISTANT TO OILS, FUELS, HYD ROCARBON, 3XA ANTI-STICK FINISH ON BOTH SIDES	252735	30.00	90
3mm Sheet Gasket Graphite Topgraph 2000 wire. LPH 3	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: GRAPHITE; REFERENCE NO: TOP GRAPH 2000 S/WIRE; GOOD RESISTANCE TO STEAM; RESISTANT TO OILS, FUELS, HYDROCARBON; 3XA ANTI-STICK FINISH ON BOTH SIDES; WITH STAINLESS STEEL WIRE	566047	50.00	150
SHEET,GASKET:THK 1.5 MM ;LG 1 M	SHEET GSKT:THK 1.5 MM;LG 1.5 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 1.5 M; WIDTH: 1.5 M; MATERIAL: GRAPHITE; REFERENCE NO: V15011Z3IP; SIGRAFLEX HOCHDRUCK; TENDER RETRUNABLE: GASKET SPECIFICATION SHEET; ASME GASKET FACTORS: M≤2.5, Y≤2000 PSI	197973	50.00	150
SHEET,GASKET:THK 3 MM ;LG 1.5 M	SHEET GSKT:THK 3 MM;LG 1.5 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 1.5 M; WIDTH: 1.5 M; MATERIAL: GRAPHITE; STANDARD: DIN 28091-GR-11-I-5-CR; MAXIMUM TEMPERATURE OF 600 DEGREE CELSIUS AND MAXIMUM PRESSURE 200 BAR; LAMINATED GRAPHITE WITH STAINLESS STEEL FOIL 0.05 MM	527163	50.00	150
SHEET:RUBBER;WD 1.2M X THK 3MM;INSERTION. Condenser door	SHEET GSKT:THK 3 MM;LG 30 M;WD 1.2 M	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 30 M; WIDTH: 1.2 M; MATERIAL: RUBBER INSERTION; STANDARD: 25 KG; COLOR: BLACK; SUPPLIER NOTE: 25KG PER ROLL; ROLL MUST BE WRAPPED AND CLEARLY MARKED WITH SPECIFIC KILOGRAMS	94329	1000.00	3000
SHEET:RUBBER NATURAL;WD 1.2M X THK 1.6MM. THK 1.5MM INSERSION	SHEET:RUBBER NATURAL;INSERTION;BLACK	SHEET: MATERIAL: RUBBER NATURAL; DIMENSIONS: WD 1.2 M X THK 1.6 MM; TYPE: INSERTION; COLOR: BLACK; SIZE 1.5MM THK; THE FOLLOWING REQUIRED WITH DELIVERY, SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE	94256	1000.00	3000

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SHEET,INSUL F/GLAS RED 1,4THK	INSULN:ELECTRICAL;SQ 1.22 M X THK 1.4 MM	INSULATION: TYPE: ELECTRICAL; DIMENSIONS: SQ 1.22 M X THK 1.4 MM; MATERIAL: GLASS FIBER; FORM: SHEET RECT; RED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	135707	9.00	27
NEOPRENE RUBBER GASKET, PRE CUT:	GASKET PC:ID 165 X OD 220 X THK 3 MM;RD	GASKET, PRE CUT: DIMENSIONS: ID 165 X OD 220 X THK 3 MM; MATERIAL: NEOPRENE; SHAPE: RD; DRAWING NO: AS37644 REV 1; REFERENCE NO: 21; FOR USE ON FABRIC FILTER PLANT PULSE VALVE DRAWING NUMBER 006AS22935 FLAKT STANDARD DETAIL PULSE VALVE ASSEMBLY	62465	80.00	240

3.2 Spital Wound Gaskets

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Spital Wound Gaskets					
Gasket,SPL WND:470 MM;OD 495 MM;5 MPA;SS (HP Heaters Manhole)	GASKET SPRL WND:470 MM;495 MM;5 MPA;ASB	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 470 MM; OUTER RING OUTSIDE DIAMETER: 495 MM; PRESSURE RATING: 5 MPA; FILLER MATERIAL: ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, HIGH PRESSURE WORKING TEMPERATURE 300 DEG C; SIZE: 5MM THK	106304	30.00	90
Metalflex Gasket,SPL WND 304X338X4,5 (HP htr fw Gaskets)	GASKET SPRL WND:304 MM;338 MM;60-80 BAR	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 304 MM; OUTER RING OUTSIDE DIAMETER: 338 MM; PRESSURE RATING: 60-80 BAR; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; THICKNESS: 4.5 MM; METAFLEX JOINT; TEMPERATURE RATING 550 DEG C	105987	30.00	90
GASKET SPRL WND:323 MM;343 MM;GRAPHITE	GASKET SPRL WND:323 MM;343 MM;GRAPHITE	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 323 MM; OUTER RING OUTSIDE DIAMETER: 343 MM; FILLER MATERIAL: GRAPHITE; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; SUPPL P/N: MSV 250-2/32; SULZER RE-HEAT SAFETY VALVE TYPE MSV 250, MATERIAL SPIROTALLIC 911; SIZE: 4.5MM THK	106120	10.00	30
GASKET,SPL WND:25 MM;OD 65 MM;SS;ASB	GASKET SPRL WND:25 MM;65 MM;ASB;SS;ROUND	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 25 MM; OUTER RING OUTSIDE DIAMETER: 65 MM; FILLER MATERIAL: ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT; SIZE: 4.5MM THK	106127	16.00	48

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
GASKET,SPL WND:104 MM;OD 117 MM;SS;ASB	GASKET SPRL WND:104 MM;117 MM;ASB;SS	GASKET, SPIRAL WOUND: INNER RING INSIDE DIAMETER: 104 MM; OUTER RING OUTSIDE DIAMETER: 117 MM; FILLER MATERIAL: ASB; WINDING MATERIAL: STAINLESS STEEL; SHAPE: ROUND; METAFLEX JOINT, SIZE 4.5MM THK	106030	20.00	60

3.3 Gland Packing

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Gland Packing					
Gland PACKING 5 MM	PACKING BULK:WD 5 MM;THK 5 MM;250 BAR;SQ	PACKING, BULK: WIDTH: 5 MM; THICKNESS: 5 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	172803	33.33	100
Gland Packing 6mm	PACKING BULK:WD 6 MM;THK 6 MM;250 BAR;SQ	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	172804	33.33	100
Gland Packing 8mm 0.91 kg per box	PACKING BULK:WD 7.9 MM;THK 7.9 MM;250;SQ	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	172805	33.33	100
Gland Packing 9.5mm	PACKING BULK:WD 9.5 MM;THK 9.5 MM;LG 9.3	PACKING, BULK: WIDTH: 9.5 MM; THICKNESS: 9.5 MM; LENGTH: 9.3 M; 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	172806	33.33	100
Gland Packing 12.7 MM(	PACKING BULK:WD 12.7 MM;THK 12.7 MM;250	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	172808	50.00	150

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Gland PACKING 16 MM	PACKING BULK:WD 15.9 MM;THK 15.9 MM;250	PACKING, BULK: WIDTH: 15.9 MM; THICKNESS: 15.9 MM; MATERIAL: CARBON FIBER; APPLICATION: PUMP AND VALVE; MAX PRESSURE: 250 BAR; PH VALUE RANGE: 0-13; TEMPERATURE RANGE: -40 TO 566 DEG C; TYPE: GENERAL SERVICE; SHAPE: SQ; SUPPL P/N: 477-1; HP STEAM IMPREGNATED WITHM MOLYBDENUM CORROSION INHIBITOR, SPECIFICATION TO BE CERTIFIED, TFE DISPERSION: 14PCT, LEACHABLE CHLORIDE ION CONTENT 71PPM MAX, LEACHABLE SULPHURE 42PPM MAX, TOTAL SULPHUR: 439PPM MAX, TOTAL CHLORIDE 100PPM MAX, PURITY OF YARN 91.59 PCT, SHAFT VELOCITY LIMIT 15M/SEC	101031	33.33	100
Gland packing 19 MM	PACKING BULK:WD 19 MM;THK 19 MM;250 BAR	PACKING, BULK: WIDTH: 19 MM; THICKNESS: 19 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; HP STEAM NON ASBESTOS, IMPREGNATED WITHM MOLYBDENUM CORROSION INHIBITOR, TO BE CERTIFIED, TFE DISPERSION 14PCT, LEACHABLE CHLORIDE ION CONTENT 71PPM MAX, LEACHABLE SULPHUR 42PPM MAX, TOTAL SULPHUR 439PPM MAX, TOTAL CHLORIDE 100PPM MAX, PURITY OF 91.59PCT, TEMPERATURE LIMIT -40 DEGREE CELSIUS TO 566 DEGREE CELSIUS, SHAFT VELOCITY LIMIT 15M/SEC, PH 0-13	101032	10.00	30
GLAND PCKNG:ID 32 X OD 50 X HT 45 MM. 50mm valve	GLAND PCKNG:ID 32 X OD 50 X HT 45 MM	GLAND, PACKING: DIMENSIONS: ID 32 X OD 50 X HT 45 MM; TYPE: VALVE; MATERIAL: GRAPHITE PREFORMED; SUPPL P/N: VA500.50MM; FOR USE ON SEMPELL VALVE; CONSISTING OF: TWO BRAIDED RINGS; TEADIT T2200 AND THREE HP RING; SUPPLIER NOTE ! THE ITEM WILL BE PROTECTIVE PACKED AND CLEARLY MARKED	223279	66.67	200
GLAND PCKNG:VA500.15MM;VALVE. 16 Xod24 x 20mm	GLAND PCKNG:ID 16 X OD 24 X HT 20 MM	GLAND, PACKING: DIMENSIONS: ID 16 X OD 24 X HT 20 MM; TYPE: VALVE; MATERIAL: GRAPHITE PREFORMED; SUPPL P/N: VA500.15MM; FOR USE ON SEMPELL VALVE; CONSISTING OF: TWO BRAIDED RINGS; TEADIT T2200 AND THREE HP RINGS; SUPPLIER NOTE ! THE ITEM WILL BE PROTECTIVE PACKED AND CLEARLY MARKED	223273	66.67	200
PACKING PRFRMD:ID 88 MM;OD 112 MM;THK 15(PCB)	PACKING PRFRMD:ID 88 MM;OD 112 MM;THK 15	PACKING, PREFORMED: INSIDE DIAMETER: 88 MM; OUTSIDE DIAMETER: 112 MM; THICKNESS: 15 MM; TYPE: CUP RING; MATERIAL: ASB GRAPHITE IMPREGNATED; SUPPL P/N: 103049188; REFERENCE NO: E32S-6/22; PRESSURE SEAL, FOR SULZER HP BYPASS SEALWATER VALVE TYPE E S32-6, LOCAL PRE-FORMED GRAPHOIL,STRAIGHT SECTION, CLEAN AND DRY ON SHELF INDOORS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	106048	33.33	100

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
PACKING PRFRMD:ID 700 MM;OD 740 MM. Blocking devise . Hot reheat	PACKING PRFRMD:ID 700 MM;OD 740 MM	PACKING, PREFORMED: INSIDE DIAMETER: 700 MM; OUTSIDE DIAMETER: 740 MM; THICKNESS: 30 MM; TYPE: BONNET; MATERIAL: GRAPHITE; REFERENCE NO: 05-1362-00-0; SS WIRE RE-INFORCED; HOT REHEAT BLOCKING DEVICE; SHAPE CUP RING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	706671	43.33	130
PACKING PRFRMD:ID 53+B33+B30:B38+B24:B27:B38	PACKING PRFRMD:ID 530 MM;OD 560 MM	PACKING, PREFORMED: INSIDE DIAMETER: 530 MM; OUTSIDE DIAMETER: 560 MM; THICKNESS: 30 MM; TYPE: BONNET COVER JOINT; MATERIAL: GRAPHITE; HOT REHEAT BLOCKING DEVICE; NP320; NB OF BLOCKING DEVICE 525MM; SHAPE CUP RING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	68151	20.00	60

3.4 Pressure Seals

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Pressure Seals					
Pressure seal (Packing Form ID=394MM & OD444MM)	PACKING PRFRMD:ID 394 MM;OD 444 MM	PACKING, PREFORMED: INSIDE DIAMETER: 394 MM; OUTSIDE DIAMETER: 444 MM; THICKNESS: 30 MM; TYPE: CUP RING; MATERIAL: ASB GRAPHITE IMPREGNATED; REFERENCE NO: 15S001; COFER SEAL; V901/I7; SIZE 395MM X 445MM X 30MM; NUCLEAR GRADE; FOR CIRCULATING PUMP DISCHARGE VALVE NB15S001; INDIVIDUALLY BUBBLE WRAPPED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	105949	10.00	30
Pressure seal 100mm x 90mm	SEAL RNG:COVER;ID 90 MM;OD 100 MM	SEAL, RING: TYPE: COVER; INSIDE DIAMETER: 90 MM; OUTSIDE DIAMETER: 100 MM; THICKNESS: 13.5 MM; MATERIAL: GRAPHITE GR NUCLEAR; STAINLESS STEEL RE-INFORCED, 45 DEGREES INSIDE	105958	100.00	300

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
SEAL RNG:PRECISION;ID 185 MM;OD 200 MM Boiler . Order more	SEAL RNG:PRECISION;ID 185 MM;OD 200 MM	SEAL, RING: TYPE: PRECISION; INSIDE DIAMETER: 185 MM; OUTSIDE DIAMETER: 200 MM; THICKNESS: 15 MM; MATERIAL: GRAPHITE GR NUCLEAR; 45 DEGREES INSIDE, HALF OF HIGHT TAPERING TO THE OUTSIDE TILL 2MM THICK, MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY.	107745	66.67	200
Seal,Ring:Cover;ID 250 MM;OD 280 MM (Bonnest Seal)	SEAL RNG:COVER;ID 250 MM;OD 280 MM	SEAL, RING: TYPE: COVER; INSIDE DIAMETER: 250 MM; OUTSIDE DIAMETER: 280 MM; THICKNESS: 25 MM; MATERIAL: GRAPHITE GR NUCLEAR; APPLICATION: MAIN STEAM BLOCKING DEVICE; SUPPL P/N: V881-I7; 45 DEGREE INTERNAL CHAMPHER, FOR SEMPELL VALVE; PRE-PRESSED	105953	33.33	100
Pressure seal 320mm*351mm HPH Doors	SEAL RNG:JOINT HIGH PRESSURE COVER	SEAL, RING: TYPE: JOINT HIGH PRESSURE COVER; INSIDE DIAMETER: 320 MM; OUTSIDE DIAMETER: 351 MM; THICKNESS: 21 MM; MATERIAL: ANCALOY WIRE REINFORCED BRAIDED GRAPHITE; APPLICATION: HIGH PRESSURE FEEDWATER; DRAWING NO: S2355/53(O,H,21) REV 1; OPERATING PRESSURE 25MPA; OPERATING TEMPERATURE 25 DEG C; MATERIAL SQUARE SECTION	97478	100.00	300
RING PSTN:VALVE;ID 25 MM;OD 36 MM;1 HP/IP control v/v(SG01S004)	RING PSTN:VALVE;ID 25 MM;OD 36 MM;1	RING, PISTON: TYPE: VALVE; INSIDE DIAMETER: 25 MM; OUTSIDE DIAMETER: 36 MM; THICKNESS: 12.7 MM; NUMBER IN SET: 1; MATERIAL: CARBON GRAPHITE; MANUF P/N: 1U2174X0012; REFERENCE NO: F054270; DUVHA AKZ RM62S054	751393	10.00	30
RING PSTN:ID 193 MM;OD 205 MM;THK 9.5 MM.LP valve (SG01S007)	RING PSTN:ID 193 MM;OD 205 MM;THK 9.5 MM	RING, PISTON: INSIDE DIAMETER: 193 MM; OUTSIDE DIAMETER: 205 MM; THICKNESS: 9.5 MM; MATERIAL: GRAPHITE; SUPPL P/N: 11A9893X012; DRAWING NO: SY33662 REV 1; FOR LP GLAND STEAM SUPPLY CONTROL VALVE	75953	10.00	30
RING,THRUST VKS1-500-15-10 (Description to be verified)	WASHER THRST:ID 20 MM;OD 28 MM;STL	WASHER, THRUST: INSIDE DIAMETER: 20 MM; OUTSIDE DIAMETER: 28 MM; MATERIAL: STL; REFERENCE NO: 22-3160-63-0; ITEM 17; FOR VKS1.500.15.10 VALVE; VALVE NUMBER RL23S114; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	76199	10.00	30
Ring,Wear:6;ID 260 MM;OD 280 MM;SS	RING WEAR:ID 260 MM;OD 280 MM;THK 10 MM	RING, WEAR: INSIDE DIAMETER: 260 MM; OUTSIDE DIAMETER: 280 MM; THICKNESS: 10 MM; MATERIAL: STAINLESS STEEL; DRAWING NO: 0.41758-E III REV 1; THRUST PIECES, FOR USE ON FEED WATER BYPASS CONTROL VALVE	76612	10.00	30

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
SEAL RNG:PRECISION;ID 80 MM;OD 90 MM	SEAL RNG:PRECISION;ID 80 MM;OD 90 MM	SEAL, RING: TYPE: PRECISION; INSIDE DIAMETER: 80 MM; OUTSIDE DIAMETER: 90 MM; THICKNESS: 13.5 MM; MATERIAL: GRAPHITE GR NUCLEAR; APPLICATION: SEMPELL GES2 GATE VALVE; 45 DEGREES INSIDE, S/S RE-INFORCED, FOR VALVE TYPE GES 2.5.65.50.11, ALPHA NUMERIC NUMBER NW11S101	105954	166.67	500
SEAL RNG:COVER;ID 70 MM;OD 80 MM SPWT station	SEAL RNG:COVER;ID 70 MM;OD 80 MM;THK 12	SEAL, RING: TYPE: COVER; INSIDE DIAMETER: 70 MM; OUTSIDE DIAMETER: 80 MM; THICKNESS: 12 MM; MATERIAL: GRAPHITE GR NUCLEAR; APPLICATION: SUPER HEATER SPRAY WATER CONTROL VALVE; VALVE TYPE WELLAND AND TUXHORN NB65 PN500, 45 DEGREES INSIDE , STAINLESS STEEL RE-INFORCED, INDIVIDUALLY PACKED	106166	200.00	600
SEAL RNG:COVER;ID 60 MM;OD 70 MM. SPWT station	SEAL RNG:COVER;ID 60 MM;OD 70 MM;THK 12	SEAL, RING: TYPE: COVER; INSIDE DIAMETER: 60 MM; OUTSIDE DIAMETER: 70 MM; THICKNESS: 12 MM; MATERIAL: GRAPHITE GR NUCLEAR; APPLICATION: REHEAT SPRAY WATER CONTROL VALVE; 45 DEGREES INSIDE, STAINLESS STEEL RE-INFORCED, VALVE TYPE WELLAND AND TUXHORN, TO BE INDIVIDUALLY PACKED	106167	202.00	606
SEAL RNG:PRECISION;ID 195 MM;OD 210 MM	SEAL RNG:PRECISION;ID 195 MM;OD 210 MM	SEAL, RING: TYPE: PRECISION; INSIDE DIAMETER: 195 MM; OUTSIDE DIAMETER: 210 MM; THICKNESS: 15 MM; MATERIAL: GRAPHITE GR NUCLEAR; REFERENCE V901/I7, MATERIAL CERTIFICATES TO BE SUPPLIED WITH EVERY DELIVERY, INDIVIDUALLY BUBBLE WRAPPED	98239	30.00	90
IMPLOSION DAMPER SEAL AND DOOR SEAL;EPDM	SEAL:IMPLOSION DAMPER;EPDM	SEAL: TYPE: IMPLOSION DAMPER; MATERIAL: EPDM; DRAWING NO: 007 AS-37992 REV 1; FABRIC FILTER PLANT, MATERIAL RUBBER EXTRUSION WITH 50 - 55 DUROMETER HARDNESS, TEMPERATURE RATING 150DEGREES CELSIUS, LENGTHS OF 10METER, INDIVIDUALLY IN BLACK PLASTIC BAG PREFERABLE IN A DARK ENVIRONMENT	101552	50.00	150

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3.5 O-Rings

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
O-Rings					
O-Ring 19MM for LPH 1&3	O RING CRD:NITRILE RUBBER;THK 19 MM	O RING, CORD: MATERIAL: NITRILE RUBBER; THICKNESS: 19 MM; LENGTH: 12 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	107781	100.00	300
O RING,CRD:NEOPRENE RUBBER;THK 8.4 MM	O RING CRD:NEOPRENE;THK 8.4 MM	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 8.4 MM; SIZE: 2M LG; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	107782	50.00	150
O RING,CRD:NEOPRENE;THK 5.5 MM;75 DEG	O RING CRD:NEOPRENE;THK 5.5 MM;75 DEG	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 5.5 MM; SHORE HARDNESS: 75 DEG; BLACK SOLID; CONTINUOUS LENGTH; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94305	50.00	150
O RING,CRD:NEOPRENE;THK 4 MM;75 DEG	O RING CRD:NEOPRENE;THK 4 MM;75 DEG	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 4 MM; SHORE HARDNESS: 75 DEG; BLACK; SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94303	20.00	60
O RING,CRD:NITRILE;THK 10 MM	O RING CRD:NITRILE;THK 10 MM	O RING, CORD: MATERIAL: NITRILE; THICKNESS: 10 MM; DRAWING NO: DUVHA R83 REV 1; FOR 100NB, 150 NB, 80 NB, 200 NB ROTARY DISC VALVES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	198308	30.00	90
O RING,CRD:NEOPRENE;THK 19.5 MM;65/70	O RING CRD:NEOPRENE;THK 19.5 MM;65/70	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 19.5 MM; SHORE HARDNESS: 65/70; SIZE: 874MM LG, 874MM ID X 19.5MM DIA; FOR USE ON TURBINE GENERATOR H2 COOLER; EACH ITEM MUST HAVE A TAG ATTACHED FOR PROOF OF MATERIAL SPEC, SHORE HARDNESS AND DATE OF MANUFACTURE; ITEMS TO BE INDIVIDUALLY PACKED IN BLACK PLASTIC BAGS FOR PROTECTION; BIG TIME FLUID SEALING BRAND ONLY; EX SPARTAN FLUID SEALING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94059	50.00	150

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
O RING,CRD:NEOPRENE;THK 4.7 MM;75 DEG	O RING CRD:NEOPRENE;THK 4.7 MM;75 DEG	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 4.7 MM; SHORE HARDNESS: 75 DEG; BLACK; SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94304	50.00	150
O Ring,CRD:Neoprene;THK 9.5 MM;75 Deg	O RING CRD:NEOPRENE;THK 9.5 MM;75 DEG	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 9.5 MM; SHORE HARDNESS: 75 DEG; BLACK; SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94308	15.00	45
O RING,CRD:NITRILE;THK 20 MM	O RING CRD:NITRILE;THK 20 MM	O RING, CORD: MATERIAL: NITRILE; THICKNESS: 20 MM; DRAWING NO: DUVHA R83 REV 1; FOR 600 NB ROTARY DISC VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	198310	15.00	45
O RING CRD:NEOPRENE;THK 6.3 MM;75 DEG	O RING CRD:NEOPRENE;THK 6.3 MM;75 DEG	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 6.3 MM; SHORE HARDNESS: 75 DEG; COLOUR: BLACK; SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	94306	50.00	150

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3.6 Other

Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
Other					
Butterfly valve seat	SEAT, BUTTERFLY; ID 380 X OD 415 X THK 105 MM; RUBBER; NUG114N	SEAT, VALVE: VALVE STYLE: BUTTERFLY; VALVE SIZE: 400 MM; DIMENSIONS: ID 380 X OD 415 X THK 105 MM; MATERIAL: RUBBER; NUG114N	76473	33.33	100
Diaphragm,VLV:2N1309/022;DIA 465 MM (Fisher Diaphragm 70 & 87)	DIAPHRAGM ACTTR:DIA 465 MM;NBR;FISHER;70	DIAPHRAGM, ACTUATOR: DIMENSIONS: DIA 465 MM; MATERIAL: NBR; TYPE: FISHER; ACTUATOR SIZE: 70; REFERENCE NO: 2N1309/022; 667/70	75902	2.00	6
Seat:Air Ejector Valve;Viton. WAE	SEAT:AIR EJECTOR VALVE;ID 168.5 X OD 206	SEAT: TYPE: AIR EJECTOR VALVE; DIMENSIONS: ID 168.5 X OD 206 MM; MATERIAL: VITON; SUPPL P/N: 144; DRAWING NO: S 00-2355/51 REV 1; REFERENCE NO: 144; FOR TURBINE MAIN CONDENSOR WATER, ITEM TO BE PACKED IN BLACK PLASTIC BAG	75824	41.00	123
SEAT:136;AIR EJECTOR VALVE;VITON. WAE	SEAT:AIR EJECTOR VALVE;VITON	SEAT: TYPE: AIR EJECTOR VALVE; DIMENSIONS: ID 94 X OD 130 X THK 11 MM; MATERIAL: VITON; SUPPL P/N: 136; MATERIAL RUBBER AS PER HAMON SOBELCO SPECIFICATION	75823	50.00	150
Adhesive:Pliobond;Contact;Tube 50 ML	ADHESIVE:CONTACT;TUBE 50 ML	ADHESIVE: TYPE: CONTACT; CONTAINER: TUBE 50 ML; SUPPL P/N: PLIOBOND; ALL PURPOSE, COLOUR TAN, 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	160306	66.67	200
IMPLOSION DAMPER SEAL AND DOOR SEAL;EPDM	SEAL:IMPLOSION DAMPER;EPDM	SEAL: TYPE: IMPLOSION DAMPER; MATERIAL: EPDM; DRAWING NO: 007 AS-37992 REV 1; FABRIC FILTER PLANT, MATERIAL RUBBER EXTRUSION WITH 50 - 55 DUROMETER HARDNESS, TEMPERATURE RATING 150DEGREES CELSIUS, LENGTHS OF 10METER, INDIVIDUALLY IN BLACK PLASTIC BAG PREFERABLE IN A DARK INVIRONMENT	101552	50.00	150
INLET DAMPER LH BOTTOM AND RH TOP SEAL;SS GR 3CR12	PLATE:SEAL;THK 2 MM;SS GR 3CR12	PLATE: TYPE: SEAL; DIMENSIONS: THK 2 MM; MATERIAL: SS GR 3CR12; DRAWING NO: ESKOM 057/42293 REV 1; FABRIC FILTER PLANT L/H INLET BOTTOM DAMPER; TEMP RATING 150-200 DEG C; MATERIAL CERTIFICATE TO BE SUPPLIED WITH EACH ITEM	101679	0.00	0

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Outage Description	Short Description	Long Description	Stock Number	Qty Req per outage	Total QTY Required (3 outages)
INLET DAMPER INTERMEDIATE,SS GR 3CR12	PLATE:SEAL;THK 2 MM;SS GR 3CR12	PLATE: TYPE: SEAL; DIMENSIONS: THK 2 MM; MATERIAL: SS GR 3CR12; DRAWING NO: ESKOM 057/42293 REV 1; FABRIC FILTER PLANT INTERMEDIATE INLET DAMPER; TEMP RATING 150-200 DEG C; MATERIAL CERTIFICATE TO BE SUPPLIED WITH EACH ITEM	101680	0.00	0
BLACK DIAPHRAGM	DISC:FFP PULSE TANK;DIA 105 X THK 5.5 MM	DISC: TYPE: FFP PULSE TANK; DIMENSIONS: DIA 105 X THK 5.5 MM; MATERIAL: NEOPRENE 146; WITH 1.2 MM MILD STEEL PLATE; 10 MM CENTRE HOLE, 5 MM CHAMFER ON THE OUTER END OF THE DISC	255433	66.67	200
DIAPHRAGM SEALING WHITE WASHER,	WASHER SEALG:PVDC;24.57/49597	WASHER, SEALING: MATERIAL: PVDC; DRAWING NO: 24.57/49597 REV 1; FFP PULS TANK PULS VALVE DIAPHRAGM MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	180734	66.67	200

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4. TENDER RETURNABLES

4.1 Mandatory Criteria

The mandatory criteria will be assessed on a “Yes” / “No” basis and must be complied to.

1. Data sheets for the following gaskets must be supplied. One example of each is required.

- Sheet – C4324
- Sheet – Graphite laminate
- Sheet – Rubber Insertion
- Spiral Wound gasket
- Pressure Seal
- Packing

Data sheet needs to include the following:

Gasket Identification:

- Manufacturer name
- Gasket type or style number (e.g. spiral wound, sheet, ring type joint, etc.)
- Material composition
- OEM Part number / gasket identification code
- Gasket dimensions (OD, ID, thickness, etc.)

Service Suitability:

- Design pressure range
- Design temperature range
- Media compatibility
- Application notes (e.g. suitable for flange class ASME B16.5 CLASS 300, PN16)

Compliance & Certification:

- Conformance to standards: e.g. EN 13555 or ASME B16.20 / B16.21, API 601, DIN 2690 (if applicable).
- Material certification: EN 10204 type 3.1 or 2.2 (if applicable).

Performance Data:

- Gasket stress: (Qmin, Qsmax) under EN 13555 or ASME gasket factors whichever is applicable.
- Tightness class under EN 13555
- Compression and recovery values (ASTM F36)
- Seal ability (ASTM F37 or DIN 3535)

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4.2 Qualitative Criteria

1. Provide letter stating where the gaskets will be manufactured. At least 60% must be manufactured locally. This applies to gaskets and packing.
2. ISO 3834-2 welding certification certificate from the company that will manufacture the spiral wound gaskets.
3. Provide the manufacturer's gasket testing procedure or philosophy, detailing how the manufactured gaskets are tested for compliance with the applicable governing standards.

5. ACCEPTANCE

This document has been seen and accepted by:

Name	Designation
Nicolaas Hallatt	Chief Engineer
Doreen Makena	Outage Controller
Ashwin Narsai	Senior Technologist

6. REVISIONS

Date	Rev.	Compiler	Remarks
Oct 2026	1	Nicolaas Hallatt	First Issue
Oct 2026	2	Nicolaas Hallatt	Quantities Changed

7. DEVELOPMENT TEAM

- As above

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