

 Eskom	Specification	Medupi Power Station
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Title: **Medupi Power Station Diesel Generators, Bulk Diesel Fuel Supply, Used Oil system spares supply SOW**

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1. Introduction

The Medupi Power Stations diesel generators fuel supply, the bulk diesel fuel supply system and the used oil system have similar spares for the transportation of diesel fuel and oil, these consist of piping, pumps, control valves, safety valves, etc. Thus the spares for these systems will be combined within this spares supply SOW.

2. Supporting Clauses

2.1 Scope

Supply of new spares for the diesel generators fuel supply, the Bulk Diesel Fuel Supply system and the used oil system installed at Medupi Power Station for a period of 5 years on an as and when required bases.

2.1.1 Purpose

The purpose of this document is to give the detailed Scope of work that the contractor will be tendering for, for the above mentioned scope.

2.1.2 Applicability

This document shall apply to the Medupi Power Station.

2.1.3 Effective date

The effective date of this document is the date of authorisation.

2.2 Normative/Informative References

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

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] Environmental Incident Management Procedure - 240-133087117
- [3] ESKOM SHEQ Policy 32-727
- [4] Life Saving-Rules – 240-62196227 Medupi Power Station - SHE File Evaluation Checklist - 240-97661287
- [5] Medupi Power Station Working at Heights Work Instruction - 240-135676724

2.2.2 Informative

N/A

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2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted for the works as specified in this scope
Employer	Eskom Medupi Power Station

2.4 Abbreviations

Abbreviation	Explanation
IP	Intellectual Property
OEM	Original Equipment Manufacturer
QCP	Quality Control Plan
SOW	Scope of Works

2.5 Roles and Responsibilities

Maintenance is responsible for quality control on delivery of spares as well as to ensure that timeous orders are placed for required services.

Engineering will be responsible for the approval of quality control plan for services to be executed and will form part of the quality control process.

Commercial will be part of the contract placement process and communication with the contractor until contract award.

Materials Management is responsible to manage this spare supply contract in line with this SOW.

2.6 Process for Monitoring

This document will be a once-off document to state the scope of work.

2.7 Related/Supporting Documents

N/A

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13. The following packaging requirements should be adhered to:
- a) The Goods are to be packaged in such a manner that it can be transported and stored for an extended period without resulting in damage to the goods.
 - b) This includes damage due to moisture ingress, corrosion, vibration from the power station etc.
 - c) Where lifting gear is utilised to move the goods, the packaging should allow the lifting operation and ensure that the goods are not damaged in any way during the process.
 - d) It will also not be necessary to open packaging for any lifting or transport operation.
 - e) Where eye bolts are fitted to move the goods, these eye bolts should be fitted such a way that they can be easily removed and replaced with the *Employers'* eye bolts, ensuring that the packaging stays intact.
 - f) Packaging and labelling of the gearboxes should ensure that the spare can be identified without opening the packaging.
 - g) Delivery packaging to have the following detail on it as a minimum (removable adhesive sticker if possible):
 - Order number,
 - A short description of component
 - The stock number.
 - Manufacturing date (refurbishment date if applicable)
 - Space for adding the installation date.
- The documentation for preservation requirements should be delivered with the component.

3.2 Warranty

1. All spares shall carry a 24-month warrantee from date of delivery.
2. All spares shall carry a further 12-month warrantee after installation, against all defects.
3. Any specific requirements to enable the 12-month warrantee shall be brought forward by the Contractor for agreement during negotiations. If witnessing of installation is required, this will be at the Contractor's own cost.
4. The warranty shall also cover, but not be limited to, minor defects identified.
5. The contractor will bear all cost for warrantee repairs.

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Table 1: List of Spare parts and estimated quantities required.

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
Diesel Generators fuel supply											
1	01XJN10 AA602	Non Return Valve, Reduced Port, SW Ends, CL800	1"; Reduced Port, SW Ends, CL800; ANSI B16.34 ISO15761 Length: 127mm Carbon Steel class 800	Bonney Forge			each	2			
2	01XJN10 AA603	Fire Shut Off Valve, Threaded NPT Ends	1"; Female NPT, ANSI B16.34, Inspection & testing according to API 598. API 607 4th Edition Fire-Safe Test approved. Model nr: FLPLT059165010FW Serial nr: 55446B23770	Bi-TORQ Valve Automation			each	4			
3	01XJN10 AA601	Overfill Protection Valve	2"; UL2227 1228-2" OP VALVE ASSEMBLY Drawing nr: 1228-03-20XX	C&B (CLAY & BAILEY MFG. CO.)			each	2			
4	01XJN10 AA604	High Flow Emergency Vent	3"; UL – Listed Model 0367-03-30HF	C&B (Clay & Bailey)			each	1			
5	01XJN10 AA401	Ball Valve	B Series Ball Valve 1/2", Full Port, Flanged Ends, CL150; ANSI B16.34 API607 ISO15761 Length: 108 mm Two-piece, split body, cast steel, side entry design	Neway			each	2			
6	01XJN10 AA501	Ball Valve	B Series Ball Valve 1"; Full Port, Flanged Ends, CL150; ANSI B16.34 API607 ISO15761 Length: 127 mm Two-piece, split body, cast steel, side entry design	Neway			each	2			
7	01XJN10 AA201	Solenoid Valve	1"	DanFoss			each	3			
8	01XJN10 AT001	Water Separator	Model SWK 2000/40/U/M	Separ Filter			each	3			
9	01XJN10 AT001	Water Separator Element	Element no: 04030	Separ Filter			each	6			
10	01XJN10 CL301 – CL305	Day Tank Float Level Switch		Finetek			each	1			
11	01XJN10 CL001	Day Tank Level Transmitter		Endress + Hauser	Order code:FMP51-1XMT4/0 Ser no: H5001B0112C		each	2			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
					Ext Ord code: FMP51-BAACCABAA4AFJ+ AALAZ1						
Bulk Diesel Fuel Supply System											
12	0 0END10 AA301 0 0END10 AA302 0 0END10 AA303 0 0END35 AA301 0 0END35 AA302	Ball Valve	Dimension Specification 15NB to ANSI B16.34 Threaded – BSP Female Thread Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required.	CONDOR;	KV-061		each	2			
13	0 0ENA10 AA501	Ball Valve	Dimension Specification 25NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required. Fire safe ball valves required.	CONDOR;	KV-061		each	1			
14	0 0ENA45 AA502	Ball Valve	Dimension Specification 25NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required. Fire safe ball valves required.	CVT - ENERMECH PLEIX QUIP			each	1			
15	0 0ENA10 AA505 0 0ENA45 AA501	Ball Valve	Dimension Specification 50NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB ASTM A315-CF8M (Level gauge isolation valves) Additional Requirements • Full bore type valves required. Fire safe ball valves required.	CONDOR;	KV-061		each	1			
16	0 0END45 CL501 KA01 0 0END45 CL501 KA02	Ball Valve	Dimension Specification 50NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB ASTM A315-CF8M (Level gauge isolation valves)	NEWAY	NEWAY B Series (Neway Floating Ball Valve Catalogue)		each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			Additional Requirements • Full bore type valves required. Fire safe ball valves required.								
17	0 0END10 AA501 0 0END10 AA510 0 0END10 AA515 0 0END45 AA501	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required. Fire safe ball valves required.	CONDOR;	KV-061		each	2			
18	0 0END40 AA504	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required. Fire safe ball valves required.	FZV			each	1			
19	0 0END40 AA402	Ball Valve	Dimension Specification 20NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	NEWAY			each	1			
20	0 0END40 AA401 0 0END40 AA403 0 0END40 AA404 0 0END40 AA405 0 0END40 AA410 0 0END40 AA415 0 0END40 AA420 0 0END40 AA425 0 0END40 AA430 0 0END40 AA440 0 0END40 AA445 0 0END40 AA450 0 0END40 AA455	Ball Valve	Dimension Specification 25NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	NEWAY			each	4			
21	0 0END10 AA517 0 0END35 AA501	Ball Valve	Dimension Specification 50NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	CARILO			each	1			
22	0 0ENA10 AA503 0 0ENA45 AA503	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb	CARILO			each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			Material Specification ASTM A216 Gr. WCB								
23	0 0END40 AA502 0 0END40 AA503 0 0END40 AA505	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	NEWAY			each	1			
24	0 0END40 AA501 0 0END50 AA505 0 0END50 AA515 0 0END50 AA525	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	BONNEY FORGE			each	1			
25	0 0END10 AA603 0 0END10 AA604 0 0END40 AA603 0 0END45 AA601	Ball Valve	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Full bore type valves required. • Fire safe ball valves required. Complete with fusible link actuator.	CVT - ENERMECH	PQ Series Actuated Ball Valves Rotork Safety Actuators Datasheets		each	1			
26	0 0ENA10 AA502	Manual Glove Valve	Dimension Specification 25NB to ANSI B16.34 Socket to ASME B16.11 - 150 lb Material Specification ASTM A216 Gr. WCB	CVT - ENERMECH CARILO			each	1			
27	0 0ENA10 AA401 0 0ENA45 AA401 0 0END31 AA401	Manual Glove Valve	Dimension Specification 50NB to ANSI B16.34 Socket to ASME B16.11 - 150 lb Material Specification ASTM A216 Gr. WCB	CVT - ENERMECH CARILO			each	1			
28	0 0END10 AA516 0 0END35 AA502 0 1END10 AA501 0 2END10 AA501 0 3END10 AA501	Manual Butterfly valve	Dimension Specification 80NB to ANSI B16.34 Wafer to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	Slim Wafer Type Butterfly Valve			each	2			
29	0 1END10 AA101 0 2END10 AA101 0 3END10 AA101 0 0END40 AA101	ELECTRICALLY OPERATED BUTTERFLY VALVES – SLIM WAFER / AUMA	Dimension Specification 80NB to ANSI B16.34 Wafer to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB	SLIM AUMA	SLIM: AUMA		each	2			
30	0 0END10 AA605	2025.03-26 NON RETURN VALVES – PLEIX QUIP TILTED DISC TYPE	Dimension Specification 50NB to ANSI B16.34 Wafer to ASME B16.5 R/F 150 lb Material Specification	PLEIX QUIP			each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			ASTM A216 Gr. WCB Additional Requirements Spring return type discs								
31	0 0END10 AA602 0 0END20 AA601	NON-RETURN VALVES – PLEIX QUIP TILTED DISC TYPE	Dimension Specification 80NB to ANSI B16.34 Wafer to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements Spring return type discs.	PLEIX QUIP			each	1			
32	0 0END40 AA601	NON-RETURN VALVES – PLEIX QUIP TILTED DISC TYPE	Dimension Specification 80NB to ANSI B16.34 Wafer to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements Spring return type discs.	AVK			each	1			
33	0 0END10 AA505	THREE-WAY PLUG VALVE – AZ VALVE (F-3-W)	Dimension Specification 80NB to ANSI B16.34 Flanged to ASME B16.5 R/F 150 lb Material Specification ASTM A216 Gr. WCB Additional Requirements • Bottom entry type 3-way valve. • Full bore type valve. Two hole, L- port configuration		Storage, Operating & Maintenance Instructions for AZ Plug Valves Type F3 Standard F-3-W Three Way Plug Valves		each	1			
34	0 0END35 CF001	Flow Meter	Diesel Supply Flow Meter	ENDRESS & HAUSER			each	1			
35	0 0ENG10 AP001 0 0ENG10 AP001 –M01	DIESEL FUEL SUPPLY PUMP / MOTOR	CMG Motor & VIKING Pump	CMG Motor & VIKING Pump	Viking Pump Service Manual CMG Motor & VIKING Pump Data Sheet		each	1			
36	0 0END40 AA201	Solenoid valve	Dimension Specification 2" threaded to ISO 7-1 Rp Material Specification Stainless Steel 1.4581 Body and FKM Seal Additional Requirements 220V Normally Closed – Servo Assisted Controlled	BURKERT	BURKERT Type 5282 2/2		each	1			
37	0 0ENA45 CL501	MAGNETIC LEVEL GAUGES AND SWITCHES	Dimension Specification Indicator length (CTC) of 934mm Process Connection: 50NB 150lb RF Flanges Material Specification	MAG LEVEL:	Switches 1690ATEX  ti_ba_switches_en.pdf		each	1			

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Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
	0 0ENA45 CL301/302		Float and Chamber: Stainless Steel 316L Rail: Aluminium Additional Requirements: 2 x Switches :1690 ATEX 220V Bi-Stable Change -over contact								
38	0 0END10 AB001	3" Dry Break API Coupling		MANN	MANN DDCouplings		each	1			
39	0 0END10 AB002	3" Emergency Quick Break Coupling		MANN	MANN SBCouplings		each	1			
40	0 0ENA10 AA601 0 0ENA45 AA601	Emergency Pressure Relief Vent		Energas	ENERGAS Protectoseal		each	1			
41	0 0ENA10 AA602	Emergency Vacuum Relief Vent		Energas	ENERGAS Protectoseal		each	1			
42	0 0END10 AA601 0 0END35 AA601 0 0END40 AA602 0 0END45 AA602		Thermal Relief Valves Dimension Specification 20NB x 25NB – 150Lbs Threaded – BSP Male Thread Material Specification SA 351 CF-3M	EFS / TOSACA			each	4			
43	0 1END10 AA601 0 2END10 AA601 0 3END10 AA601		Thermal Relief Valves Dimension Specification 20NB x 25NB – 150Lbs Threaded – BSP Female Thread Material Specification SA 351 CF-3M	EFS / TOSACA			each	3			
Dirty & Used Oil Supply											
44	0 0QSA10 AA402 0 0QSA20 AA402 0 0QSA50 AA401 0 0QSB40 AA501 0 0QSB41 AA501 0 0QSB42 AA401 0 0QSB42 AA402 0 0QSB42 AA403 0 0QSB42 AA404 0 0QSB42 AA405	MANUAL GATE VALVES	25NB to ANSI B16.34 – 150 lb Flanged to ANSI B16.5 RF Material Specification ASTM A216 Gr. WCB	BONNEY FORGE (BFE)			each	3			
45	0 0QSA10 AA401 0 0QSA20 AA401	MANUAL GATE VALVES	Dimension Specification 50NB to ANSI B16.34, - 150 lb Flanged to ANSI B16.5 RF Material Specification ASTM A216 Gr. WCB	BONNEY FORGE (BFE)			each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
46	0 0QSB42 AA301 0 0QSB42 AA302 0 0QSB42 AA303 0 0QSB42 AA304 0 0QSA60 AA301 0 0QSA60 AA302 0 0QSA60 AA303	MANUAL BALL VALVES –	15NB PN10 Kingdom KV-030 3 piece ¼ turn ball manual ball valves, lever operated Steel casting Internals – S'/Steel 1000 WOG Economical type Full port Blow-out proof stem Locking device Threaded bores BSP SANS 1109/ ISO 7-1 ANSI 16.34 ASTM A351-CF8M A216 Gr. WCB 316/PTFE	KINGDOM / CONDOR			each	3			
47	0 0QSA30 AA501 0 0QSA60 AA501 0 0QSA61 AA502 0 0QSA70 AA501	MANUAL BALL VALVES	50NB PN10 Kingdom KV-030 3 piece ¼ turn ball manual ball valves, lever operated Steel casting Internals – S'/Steel 1000 WOG Economical type Full port Blow-out proof stem Locking device Threaded bores BSP SANS 1109/ ISO 7-1 ANSI 16.34 ASTM A351-CF8M A216 Gr. WCB 316/PTFE	KINGDOM / CONDOR			each	2			
48	0 0QSA50 AA501 0 0QSA50 AA502 0 0QSB40 AA502 0 0QSB41 AA502 0 0QSB42 AA501 0 0QSB42 AA503	MANUAL BALL VALVES	80NB to ANSI B16.34, - 150 lb Flanged to ANSI B16.5 RF Material Specification ASTM A216 Gr. WCB Fire Safe – API 608 Anti-static devices fitted BOP stem	KINGDOM / CONDOR			each	3			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			ASME 16.10 - Face-to-face Inspection & Testing to API 598								
49	0 0QSB42 AA601 0 0QSB42 AA602	Thermal Relief Valve	Thermal Relief Valves Dimension Specification 20NB x 25NB – PN10/150Lbs Type 1 / size 1 / Head 'C' Threaded – BSP Female Material Specification ASME B1.20.1 ASTM A216 Gr. WCB	Neizgodka/Tosaca.			each	1			
50	0 0QSA30 AA602	ACTUATED BALL VALVES	Actuated Shut-off Ball Valve, 2-Piece valve with 'Fusible Link' Dimension Specification 80NB to ANSI B16.34 - 150 lb Flanged to ANSI B16.5 RF Material Specification ASTM A216 Gr. WCB ASME 16.10 - Face-to-face API - 607 Glass filled Teflon seats Teflon packing BS Fire Safe – API 6755 Anti-static devices BOP stem Inspection & Testing to API 598	ROTORK (Type FS-Fire) PQ Series			each	1			
51	0 0QSB42 AA502	MANUAL 3-WAY PLUG VALVE	AZ F3 STD, Non-lubricated plug, T4 Port Plug Body - ASTM A216 Gr. WCB Cover & Plug CF8M/1.4408 I&T to API598 Inspection Cert' – DIN EN 102043.1 Dimension Specification 80NB to ANSI B16.34, - 150 lb Flanged to ANSI B16.5 RF Material Specification ASTM A216 Gr. WCB	VALVETECH / GC BAARS			each	1			
52	0 0QSA30 AA601	NRV	Dimension Specification				each	1			

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Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			80NB to ANSI B16.34 – 150 lb Flanged to ANSI B16.5 RF Bolted bonnet, metal disc, welded-in seat-ring, full bore Material Specification ASTM A216 Gr. WCB Cast steel (7.150), full-bore, swing-type								
53	0 0QSA42 AP001 0 0QSA42 AP001 MO1	Gear Pump & Motor	Pump (PDP) -Type Viking, LQ4124A – RV (gear pump) Duty Point 7,5 litres/s at 200 kPa Dimension Specification 2" NPT female Screwed Suction and Discharge Nozzles Integral relief valve (set at 300kpa) Test pressure 10 Bar Motor – PPA 132M-4, 7.5 kW 400 Volt / 4 Pole / IP66 Material Specification Carbon Steel	CMG Motor & VIKING Pump			each	1			
54	0 0QSA30 AB001	Camlock Quick Connect Coupling	Hose connection for 'receiving' oil from Mobile Trolley tank Male Fitting Dimension Specification 50NB Material Specification Stainless Steel (304L)	Hose Solutions			each	1			
55	0 0QSA61 AB001	Camlock Quick Connect Coupling	Hose connection, Mobile Trolley outlet for 'transferring' dirty oil from Trolley tank Female Fitting Dimension Specification 50NB Material Specification Stainless Steel (304L)	Hose Solutions			each	1			
56	0 0QSA60 AB001	Camlock Quick Connect Coupling	Hose connection, Mobile Trolley inlet for 'transferring' dirty oil to trolley tank Female Fitting Dimension Specification	Hose Solutions			each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			50NB Material Specification Stainless Steel (304L)								
57	0 0QSA42 AB001	Breakaway Coupling'	MannTek 3" (80NB) Industrial Safety 'Breakaway Coupling' : N461D1101-01 IND Weight = 5.5kg Dimension Specification 80NB – 150 lb (10Bar) Flanged to ANSI B16.5 RF Material Specification Carbon Steel	JACHRIS			each	1			
58	0 0QSA42 AB002	Tanker Adaptor Coupling	Male NATO STANAG Road Tanker 3" (80NB) Adapter Coupling (male) T461D1101-1 Dimension Specification 80NB – 150 lb Flanged to ANSI B16.5 RF Material Specification Carbon Steel	JACHRIS			each	1			
59	0 0QSA10 CL501 0 0QSA20 CL501	Oil storage tank sight glass	SIGHT-GLASS - fluid level indicators for main oil storage tanks i.e. two flanged units with inter-grated gauge cocks at upper & lower ends of sight-glass. Dimension Specification 50NB PN10 (2") -150 lb ASME/ANSI B16.5 ATSM A106 Gr. B Drawing No – 2.040 / 149A Type; Flanged units (4 off) with ¼ turn cock valves with associated sight-glass compression (sealing) fittings Sight-glass length - centre-to centre = 1350.00mm Material Specification	MACSTEEL FLUID CONTROL (Manufacturer – IGEMA)			each	1			

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Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			ASTM A106 Gr.B ASTM A105								
60	0 QSB42 AT001	BASKET STRAINER	PUMPTRON 'PRO-FLO' strainer with bolted bonnet, ductile iron & top-entry. 3.2mm 'Basket' perforation holes x 5.25mm staggered pitch by 0.9mm thickness basket S/S ½" NPT drain Flanged to ANSI B16.5 ANSI 150 RF SABS 936, Gr SG42 Material Specification Ductile iron, Stainless Steel basket	GORMAN-RUPP			each	1			
61	0 QSA60 AP001 –M01	GEAR PUMP / MOTOR	POLLARD PUMP & MOTOR Type; MPLN 40 – 'Mtec' - "U" Blade Duty Point 1 litre/s at 300 kPa, 1,1 Kw motor, with 'integral' Pressure Relief Valve & Mechanical seal Std operating pressure = 5 bar Std operating temperature = -20 to 150°C Maximum hard particle size 8mm. Material Specification Cast Iron				each	1			
62	0 QSA60 AA301 0 QSA60 AA302 0 QSA61 AA303	MANUAL BALL VALVE	Dimension Specification 15NB to ANSI B16.34 – 150 lb Flanged to ANSI B16.5 Material Specification ASTM A216 Gr. WCB "3-Piece", 15mm screwed/threaded-ends NPT, PTFE seats, blow-out Proof-Stem.	HAITIMA			each	1			
63	0 QSA60 AA501 0 QSA61 AA502 0 QSA70 AA501	MANUAL BALL VALVE	Dimension Specification 50NB to ANSI B16.34 – 150 lb Flanged to ANSI B16.5 Material Specification ASTM A216 Gr. WCB	HAITIMA			each	1			

CONTROLLED DISCLOSURE

Item no.	KKS	Short Description	Additional info	OEM / Original construction contractor	OEM Part No / Data Sheet	SAP Material number	Unit	Est Qty	Delivery Time (weeks)	Spare item cost (excl. VAT)	Total Est Cost New spares
			"2-Piece" 50mm Flanged End Ball Valve 2020"/Full-port, PTFE seats & BOP stem. Test to API 598								
64	0 0QSA61 AA501 0 0QSA61 AA502	MANUAL 3-WAY PLUG VALVES	Dimension Specification 50NB Flanged to ANSI B16.5 Material Specification ASTM A216 Gr. WCB AZ, 3-Way Plug Valve 2058L" L-POR T, Threaded-ends, regular bore & blow-out proof stem. Stem packing PTFE, seats 15% glass-fibre/fill PTFE	AZ			each	1			
65	0 0QSA60 AT001	Strainer	Dimension Specification 50NB PN10 Flanged to ANSI B16.5 – 150 lb Threaded BS21 Material Specification Cast Iron Type #400 "Y" Strainer	Vacuum Fluid & Technology (VFT)			each	1			
66	0 0QSA60 CP501 0 0QSA60 CP502 0 0QSA61 CP501	PRESSURE GAUGES	Dimension Specification WIKA – Bourdon type (1000kpa) Material Specification Stainless Steel case with liquid filling Model type – 213.53 Design – EN837-1 Connection - Parallel thread sealing – EN837-1-7.3	WIKA			each	1			
		Estimated Total Spares Cost									

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Table 2: Miscellaneous Spares.

Item no.	Resource Description	Estimated % of total spares cost in Table 1 above	Handling Fee %	Total Estimate cost (excl. VAT)
1.	Miscellaneous spares not specified in Table 1.	50%		Based on pricing from Table 1
	Estimated total unspecified spares cost:			

4. Acceptance

This document has been seen and accepted by the signatories of the document.

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