	Specification	Medupi Power Station
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Title: **Medupi Power Station Low Pressure Services Spares Supply Scope of Works**

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1. Introduction

Medupi Power Station Low Pressure Services comprise mainly of water/effluent pumping systems which need to be maintained. This scope caters for the supply of material and services to ensure the reliability of the various Low Pressure Service systems.

2. Supporting Clauses

2.1 Scope

Supply of spares for the Low Pressure Services installed at Medupi Power Station for a period of 5 years.

2.1.1 Purpose

The purpose of this document is to give the Scope for the supply of spares and supporting material.

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
OEM	Original Equipment Manufacturer
QCP	Quality Control Plan
SOW	Scope of Works

2.5 Roles and Responsibilities

Maintenance (Auxiliary Plant) is responsible for quality control on delivery of spares

Engineering will be responsible for the approval of quality control plans and will form part of the quality control process.

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

Materials Management is responsible to manage this 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

3. Scope of Work

The scope is for the supply of spares such as valves, pipes, pipe supports, mitre bends, elbow, clamps, gaskets, flanges, fittings, nipples, weldolets, threadolets, consumables, leak sealing devices, wraps and service kits installed on the Low Pressure water/effluent Services systems at Medupi Power Station for a period of 60 months on an 'as-and-when-required' basis. The list of installed items has been provided but the work will include the provision of supporting material/services to ensure that all maintenance work is successfully concluded.

3.1 Supply of Spares

The Works include the following:

1. The description of the spares and the quantities that the *Employer* envisages for the duration of the contract is indicated in Table 1. This value will be used with other estimates to determine the overall contract value. It should be noted that this is just an estimate and

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it does not mean that the *Employer* will definitely consume the spares in the duration of the contract. These quantities are therefore not fixed and the *Contractor* will only supply spares when instructed by a purchase order, from the *Employer*, to do so.

2. The spares and components will be supplied to the “goods received” section of the Medupi main store where it will be received by the material management section. The spares will be delivered with all the required data books and certificates, where required.
3. A datasheet of the items being delivered must be submitted to the *Employer* for review and acceptance. All deviations will go through Engineering.
4. The *Employer* shall be given sufficient notice by the *Contractor* of any witness and hold points identified for adherence in the QCP. These points may be waived (in writing) by the *Employer* from time to time depending on technical staff availability.
5. Once the spares have passed the Quality Control checks and are booked into the system then only can payment be effected.
6. Hardcopies as well as electronic copies of the manufacturing Data Books shall be supplied to the *Employer* with or before the delivery of any spare. This Data Book will be used during on site Quality Control checks to confirm correctness of spare/component delivered.
7. The manufacturing Data Book shall contain as a minimum, but shall not be limited to, approved quality control plan, material certificates, test reports, material catalogue, non-destructive testing reports/certificates.
8. The Spares has to be the same in all respects when compared to the description under this Scope of Work. This includes all aspects such as design, materials and material specifications, manufacturing, including manufacturing processes, calibration certificates and acceptance testing. Where spares offered deviate from the original in any respect, it should be indicated to the *Employer* upon quotation/query.
9. It is the *Contractor's* responsibility to ensure that correct spares are delivered. If the incorrect spares are delivered, the spares will have to be replaced with the correct spares at the *Contractor's* cost. This includes transport and delivery.
10. The Delivery and Transport Costs must be included in the quotation.
11. 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 of time without resulting in damage to the goods.
 - b) This includes damage due to moisture ingress, corrosion, dust and/or vibrations.
 - 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 in 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 components should ensure that the spare can be identified without opening the packaging.
 - g) Delivered packaging must have the following detail (removable adhesive sticker if possible):
 - i. Order number,
 - ii. A short description of component
 - iii. The stock number (where available)

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- iv. Manufacturing date
 - v. Space for adding the installation date
- h) The documentation for preservation requirements should be delivered with the component.

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Table 1: List of spare components and expected quantities

Item No.	Material Numbers	Material Characteristics	Description	Unit of Measure	Quantity	OEM
			<u>VALVES</u>			
1		25NB/PN10 hand operated gate valve	LP Potable water, Demin water, CDD, BAMR, CAB, ADM, CSY recovery - Gate valve	No	50	Klinger
2		25NB/PN16 hand operated gate valve	HP Potable water, FAC, ADI - Gate valve	No	50	Klinger
3		300NB/PN10, hand operated butterfly valve with gearbox	LP Potable water, CDD, BAMR - Butterfly valves	No	50	Klinger
4		250NB/PN10, hand operated butterfly valve with gearbox	LP Potable water, CDD, BAMR - Butterfly valves	No	50	Klinger
5		250NB/PN16, hand operated butterfly valve with gearbox	HP Potable water, Demin water, FAC, ADI - Butterfly valves	No	50	Klinger
6		15NB/PN10, hand operated ball valve	CDD, BAMR, CAB, ADM, CSY recovery - Ball valves	No	150	Klinger
7		15NB/PN16, hand operated ball valve	Potable water, Demin water, FAC, ADI - Ball valves	No	100	Klinger

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8		200NB/PN10 hand operated gate valve	LP Potable water, Demin water, CDD - Gate valve	No	50	Klinger
9		200NB/PN16 hand operated gate valve	HP Potable water, FAC - Gate valve	No	50	Klinger
10		50NB/PN10, hand operated gate valve	LP Potable water, Demin water, CDD, ADM, CSY recovery - Gate valve	No	50	Klinger
11		350NB/PN10, hand operated butterfly valve with gearbox	LP Potable water, CDD, BAMR, FAC - Butterfly valves	No	30	Klinger
12		100NB/PN10, hand operated gate valve	LP Potable water, Demin water, CDD, FAC, ADM - Gate valve	No	30	Klinger
13		200NB/PN10, hand operated butterfly valve with gearbox	LP Potable water, CDD, FAC, ADM, CSY recovery - Butterfly valves	No	30	Klinger
14		200NB/PN16, hand operated butterfly valve with gearbox	HP Potable water, Demin water, FAC & ADI - Butterfly valves	No	30	Klinger
15	630155	150NB/PN10, hand operated butterfly valve with gearbox	LP Potable water, FAC, CAB, ADM, CSY recovery - Butterfly valves	No	30	Klinger
16		200NB Non-return valve	CDD pumps, ADI pumps - Non return valves	No	30	

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17	630156	150NB valve	Non-return	FAC Pumps discharge valve	No	20	Klinger
18	630157	150NB valve	Non-return	ADM pumps, CSY recovery pumps - Non return valves	No	20	
19	630153	250NB valve	Non-return	BAMR pumps - Non return valves	No	20	
20	630`54	80NB	Non-return valve	CAB pumps - Non return valves	No	10	
21		40NB	solenoid operated gate valve	CAB mini-flow line Solenoid valves	No	10	
				BUTTERFLY VALVE GEARBOXES			
22		150 NB		LPS SYSTEMS VALVES	No	30	AVK
23		200 NB		LPS SYSTEMS VALVES	No	30	AVK
24		250 NB		LPS SYSTEMS VALVES	No	30	AVK
25		300 NB		LPS SYSTEMS VALVES	No	20	AVK
26		350 NB		LPS SYSTEMS VALVES	No	20	AVK
27		400 NB		LPS SYSTEMS VALVES	No	20	AVK
28		450 NB		LPS SYSTEMS VALVES	No	20	AVK
				CARBON STEEL PIPING (GALVANISED)			

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29	724043	1/2 inch	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	40	
30		25 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	40	
31		50 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	40	
32		80 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	40	
33		100 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	40	
34		125 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	30	
35		150 NB	SANS 62-1, SANS As per commercial, Gr Typ, Sch MED Galv. (6m pipe)	No	30	
36		200 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	30	
37		250 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	30	
38		300 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	30	
39		350 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	30	
40		400 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	30	

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41		450 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	20	
42		500 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	20	
43		600 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	15	
44		900 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	5	
45		1200 NB	SANS 719, SANS As per commercial, Gr B (6m pipe) Galv.	No	5	
			<u>CARBON STEEL FLANGES (GALVANISED)</u>			
46		25 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	40	
47		50 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	40	
48		80 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	40	
49		100 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	40	
50		125 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
51		150 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	

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52		200 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
53		250 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
54		300 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
55		350 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
56		400 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
57		450 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
58		500 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
59		600 NB	FLANGE, Plate, SLF, FF, SANS 1123, TAB 1000/3, SANS 1431, Gr 300 WA Galv.	No	30	
			<u>CARBON STEEL ELBOWS (GALVANISED)</u>			
60		25 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	80	
61		50 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	80	
62		80 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	80	

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63		100 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	80	
64		125 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
65		150 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
66		200 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
67		250 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
68		300 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
69		350 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
70		400 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
71		450 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
72		500 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
73		600 NB	90 deg ELBOW, BS 1640, BW, ASTM A234, Gr WPB, Galv.	No	60	
			<u>PVC-M PIPING</u>			
74		25 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
75		50 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
76		150 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
77		200 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	

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78	729972	250 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
79		315 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
80		355 NB	SANS 966-2 Class 9 FF (6m pipe)	No	20	
			<u>FLANGE ADAPTORS FOR M-PVC PIPING</u>			
81		250 OD	PN 16. MAXIMUM WORKING PRESSURE: 16 BAR. TEMPERATURE RANGE -10 DEG C TO 70 DEG C. 250 NB FLANGE SANS 1123 TO 250 OD SANS 966-2 PLAIN PVC PIPE CONECTION. ASTM A536 GRADE 65-45-12 DUCTILE IRON	No	20	
82		315 OD	PN 16. MAXIMUM WORKING PRESSURE: 16 BAR. TEMPERATURE RANGE -10 DEG C TO 70 DEG C. 300 NB FLANGE SANS 1123 TO 315 OD SANS 966-2 PLAIN PVC PIPE CONECTION. ASTM A536 GRADE 65-45-12 DUCTILE IRON	No	20	
83		355 OD	PN 16. MAXIMUM WORKING PRESSURE: 16 BAR. TEMPERATURE RANGE -10 DEG C TO 70 DEG C. 350 NB FLANGE SANS 1123 TO 355 OD SANS 966-2 PLAIN PVC PIPE CONECTION. ASTM A536 GRADE 65-45-12 DUCTILE IRON	No	20	
			<u>COUPLINGS FOR M-PVC PIPING</u>			
84	732200	227-252mm	COUPLING RANGE 227-252mm CLASS16, BOTH ENDS SPIGOT WITH INTERGRAL SOCKET AND RUBBER RING SEAL, SANS966-1	No	20	
85	DCF NUMBER 06-564	300-500mm	COUPLING RANGE 300-500mm CLASS16, VICTOULIC COUPLING, COMMERCIAL GRADE, SANS966-1	No	20	

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			<u>STAINLESS STEEL PIPING</u>			
86		25 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
87		50 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
88		80 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
89		100 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
90		150 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
91		200 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
92		250 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
93		300 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
94		350 NB	ASTM A 312 TYPE 304L PN 16 FF (6m pipe)	No	20	
			<u>STAINLESS STEEL FLANGES</u>			
95		25 NB	ASTM 304L PLATE FLANGES	No	20	
96		50 NB	ASTM 304L PLATE FLANGES	No	20	
97		100 NB	ASTM 304L PLATE FLANGES	No	20	
98		150 NB	ASTM 304L PLATE FLANGES	No	20	
99		200 NB	ASTM 304L PLATE FLANGES	No	20	

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100		250 NB	ASTM 304L PLATE FLANGES	No	20	
101		300 NB	ASTM 304L PLATE FLANGES	No	20	
102		350 NB	ASTM 304L PLATE FLANGES	No	20	
			<u>STAINLESS STEEL ELBOWS</u>			
103		50 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
104		100 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
105		150 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
106		200 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
107		250 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
108		300 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
109		350 NB	ASTM A403 SS 90 DEG WELDED PIPE BEND	No	20	
			<u>HDPE PIPING</u>			
110		160 OD	SANS 4427 PE100 PN 16 (6m pipe)	No	20	
111		200 OD	SANS 4427 PE100 PN 16 (6m pipe)	No	20	
112		250 OD	SANS 4427 PE100 PN 16 (6m pipe)	No	20	
113		315 OD	SANS 4427 PE100 PN 16 (6m pipe)	No	20	

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114	731798	355 OD	HDPE RARE PLASTICS, PE100, PN16, ISO4427, SDR 11,355 x 32.2mm)	No	20	
			<u>HDPE STUBS</u>			
115		160 OD PIPE	SANS 4427 HDPE STUBS	No	20	
116		200 OD PIPE	SANS 4427 HDPE STUBS	No	20	
117		250 OD PIPE	SANS 4427 HDPE STUBS	No	20	
118		315 OD PIPE	SANS 4427 HDPE STUBS	No	20	
119		355 OD PIPE	SANS 4427 HDPE STUBS	No	20	
			<u>BACKING RINGS</u>			
120		160 NB	SANS +A168:A1721123 TAB 1000/3 BACKING RING GALVANIZED	No	20	
121		200 NB	SANS 1123 TAB 1000/3 BACKING RING GALVANIZED	No	20	
122		250 NB	SANS 1123 TAB 1000/3 BACKING RING GALVANIZED	No	20	
123		300 NB	SANS 1123 TAB 1000/3 BACKING RING GALVANIZED	No	20	
124		350 NB	SANS 1123 TAB 1000/3 BACKING RING GALVANIZED	No	20	

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			<u>STRAINERS</u>			
125		200 NB	KLEERFLO - CS3E3/120/20 SELF CLEANING STRAINER, DESIGN PRESSURE 940 KPA(G), DESIGN TEMPERATURE - 6,3 DEG C TO 44,9 DEG C	No	3	KLEERFLO
126		300 NB	BASKET STRAINER WITH 2MM PERFORATION, PN 10 FLANGED TO SANS 1123, CARBON STEEL	No	6	
127		350 NB	BASKET STRAINER WITH 2MM PERFORATION, PN 10 FLANGED TO SANS 1123, CARBON STEEL	No	6	
128		500 NB	BASKET STRAINER WITH 2MM PERFORATION, PN 10 FLANGED TO SANS 1123, CARBON STEEL	No	6	
			<u>VENTS</u>			
129		50 NB	AUTOMATIC AIR RELEASE AND VACUUM BREAKER VALVE 50 NB TO AWWA C512 PN 10, FEMALE THREAD TO ISO 7-1/SANS 1109, SS GR 304L, BIAS MECHANISM TYPE 3	No	20	
130		50 NB	AUTOMATIC AIR RELEASE AND VACUUM BREAKER VALVE 50 NB TO AWWA C512 PN 10, FEMALE THREAD TO ISO 7-1/SANS 1109, SS GR 304L DUAL FUNCTION TYPE 1	No	20	
131		80 NB	AUTOMATIC AIR RELEASE VALVE TO AWWA C512 PN 10, THREADED TO ISO7-1/SANS 1109, SS GR 304 L, AIR RELEASE ONLY TYPE 2	No	20	

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132		80 NB	AUTOMATIC AIR RELEASE VALVE TO AWWA C512 PN 10, FLANGED TO SANS 1123 TABLE 1000/3 FF, FLANGE BS4360 GR 43 A, AIR RELEASE ONLY TYPE 2	No	20	
			<u>FLEXIBLE PIPING</u>			
133		50NB x 6m PN10 rubber reinforced flexible pipe	Flexible piping for CDD mobile pump discharge connection (6m pipe)	No	40	Unknown
134		110NB x 12m PN10 rubber reinforced flexible pipe	Flexible piping for CDD mobile pump discharge connection (12m pipe)	No	40	Unknown
135		150NB x 12m PN10 rubber reinforced flexible pipe	Flexible piping for CDD mobile pump discharge connection (12m pipe)	No	40	Unknown
136		200NB x 12m PN10 rubber reinforced flexible pipe	Flexible piping for CDD mobile pump discharge connection (12m pipe)	No	40	Unknown
			<u>PUMP COMPONENTS & COUPLINGS</u>			
137	629396	SULZER APP 33-125, 40m head, 50 L/s, 1470rpm Centrifugal pumps, service kits	CDD Centrifugal pump service/repair kit	No	12	Sulzer

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138		Flexible tyre coupling for Sulzer APP 33-125 Centrifugal pump	CDD Centrifugal pump couplings	No	12	REX couplings
139	629395	SULZER APP 22-80, 60m head, 50L/s, Centrifugal pumps, service kit	FAC Centrifugal pump service/repair kit	No	12	Sulzer
140	611576	Flexible tyre coupling for Sulzer APP 22-80 Centrifugal pump	FAC Centrifugal pump couplings	No	12	REX couplings
141	629394	SULZER A 42-150, 32.7m head, 97.5L/s, Centrifugal pumps, service kit	BAMR Centrifugal pump service/repair kit	No	16	Sulzer
142	612013	Flexible tyre coupling for Sulzer A 42-150 Centrifugal pump	BAMR Centrifugal pump couplings	No	16	REX couplings
143		SULZER HP 22-32, 73m head, 6.375L/s, Centrifugal pumps, service kit	CAB Centrifugal pump service/repair kit	No	12	Sulzer
144	611574	Flexible tyre coupling for Sulzer HP 22-32 Centrifugal pump	CAB Centrifugal pump couplings	No	12	REX couplings

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145	629392	SULZER APP 33-100, 46.5m head, 37L/s, Centrifugal pumps, service kit	ADM Centrifugal pump service/repair kit	No	10	Sulzer
146	611575	Flexible tyre coupling for Sulzer APP 33-100 Centrifugal pump	ADM Centrifugal pump couplings	No	10	REX couplings
147	0 OGHE22/24/26 AP001	SULZER, 116m head, 30L/s, Centrifugal pumps, service kit	ADI Centrifugal pump service/repair kit	No	12	Sulzer
148	0 OGHE22/24/26 AP001 KP01	Flexible tyre coupling for Sulzer Centrifugal pump	ADI Centrifugal pump couplings	No	12	REX couplings
149	0 OGME72/74 AP001	SULZER, 30.5m head, 25L/s, Centrifugal pumps, service kit	CSY Recovery Centrifugal pump service/repair kit	No	10	Sulzer
150	0 OGME72/74 AP001 KP01	Flexible tyre coupling for Sulzer Centrifugal pump	CSY Recovery Centrifugal pump couplings	No	10	REX couplings

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3.2 Warranty

1. All components shall carry a 24-month warrantee from date of delivery
2. All components shall carry a further 12-month warrantee after installation (which shall not shorten the warranty after delivery), coupling alignment as well as drive vibration reports will be available and used as baseline for spare/component installation
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 cover, but not be limited to, minor defects identified, for example: shaft oil seal leakages, minor oil leaks, cooling fan, safety guard or breather related issues, etc.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Aubrey Mokgotho	Officer Materials Planning
Hogen Sihlangu	Auxiliary Mechanical Maintenance Manager (Acting)
Lebo Pebane	Materials Manager (Acting)
Monaheng Mohlomi	Snr Technician Mechanical: MMD
Mosekami Mokgala	Middle Manager Procurement
Mufarisi Manyuha	Engineer: Fire and LPS
Stephanie Raphefo	Technician Mechanical: MMD
Thapedi Ramokgoname	Asst Officer Refurbishment
Tshepo Sethosa	Technician Mechanical: MMD
Sinenhlanhla Khumalo	Engineer: HVAC & Aux Cooling
Zolisa Gaga	Snr Supervisor Tech Maint.: MMD

5. Revisions

Date	Rev.	Compiler	Remarks
June 2025	3	Sandile Khoza	Final Revision – Removed refurbishable items from the SOW.
June 2024	2	Katlego Mathibedi	Final Revision – updated spares list, removed contingency amounts for refurbishments and miscellaneous spares as per request from Quantity Surveyor.
June 2024	1	Katlego Mathibedi	Final Revision
June 2024	0	Katlego Mathibedi	Draft

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6. Development Team

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

- Katlego Mathibedi - Engineering
- Sandile Khoza - Maintenance
- Bavuyile Mcondobi – Quantity Surveyor
- Mufarisi Manyuha - Engineering

7. Acknowledgements

None

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