



Scope Of Work

Hendrina Power Station

Title: **Supply & Delivery of Spares for the Sewage Treatment Plant, Sewage Transfer & Wastewater Recovery System**

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1. Introduction

Hendrina Power Station has a sewage treatment plant and a wastewater recovery system that are mainly used for the recovery of wastewater from the plant and effluent water from the ablution facilities. This water is treated for re-use to ensure continuous circulation of water during the power generation process. It is then imperative that the two systems are always available to continue treat and recover used water from the station. This scope of work aims to identify all the spares required to ensure plant availability and reliability.

2. Supporting Clauses

2.1 Scope

This document describes the spares to be supplied and delivered at Hendrina Power Station for the maintenance of the sewage treatment plant and wastewater recovery system.

2.1.1 Purpose

The purpose of the document is to provide guidance and specify the requirement for the sourcing of the spares for Hendrina Power Station.

2.1.2 Applicability

This document is applicable to Hendrina Power Station.

2.2 Normative and Informative References

2.2.1 Normative

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

2.2.2 Informative

[1] 240-150642762, Generation Plant Safety Regulations

[2] ISO 9001 Quality Management Systems.

[3] Handling of hazardous substances

[4] Occupational Health & Safety Act

2.3 Definitions

Definition	Description
System	An integrated set of constituent pieces that are combined in an operational or support environment to accomplish a defined objective. These pieces include people, hardware, software, firmware, information, procedures, facilities, services and other support facets

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2.3.1 Classification

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

2.4 Abbreviations

Abbreviation	Description
HPS	Hendrina Power Station
QCP/QIP	Quality Control Plan / Quality Inspection Plan
PS	Power Station
SOW	Scope of Work
ISO	International Standards Organisation
QCP	Quality Control Plan
OHSA	Occupational Health and Safety Act
BMH	Bulk Materials Handling
H2 Plant	Hydrogen Plant

2.5 Roles and Responsibilities

System Engineer – Responsible for defining the technical specifications and scope to be executed by the contractor, as well as ensuring that sound engineering practice is followed, and quality work is delivered.

Contract Manager – Responsible for the procurement document(s) required to establish a contract with the contractor deemed capable of executing the scope.

Contractor – Responsible for providing all the services required for the execution of the full scope of work.

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

None

3. Scope of Work

The scope of work is the supply & delivery of spares for the sewage treatment plant and wastewater recovery system at Hendrina Power Station on as and when required basis.

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4. Spares specifications

The table below is the list of spares to be supplied and their specifications as well as the estimated quantities for the duration of the contract.

SPARES (Main Sewage, Transfer and Sewage Wastewater Recovery)	Describe the type of component	Stock number	SAP Descriptions	Qty
PROPERTY SEWAGE TRANSFER PMP 1	Pump Vertical-Deep Draft Radial Flow	758039	PUMP: TYPE: SUBMERSIBLE; SIZE: 150 X 125 MM; CAPACITY: 90 L/S; SPEED: 1470 RPM; RATING: 50 KW; DRIVER: MOTOR; POTENTIAL: 400 V; CASING MATERIAL: CAST IRON, EN-GJL-250; APPLICATION: SEWAGE; SUBMERSIBLE PUMP; HEAD: 67.4 M,	4
Pump Vertical-Deep Draft Axial Flow	Pump Vertical-Deep Draft Axial Flow	633142	PUMP, CENTRIFUGAL: NPSH: 0 M; CAPACITY: 3 L/S; TOTAL HEAD: 5 M; SIZE: 50 MM; SPEED: 2010 RPM; STAGE: 1; TYPE: SUBMERSIBLE; VS40-VS/CS/GS50-VS/CS/65-VS/CS/80-VS/CS/100-VS/CS/150	2
CL EFFL RECOVY PMP 1	Pump Horizontal Single Stage Single Suction	755440	PUMP, CENTRIFUGAL: NPSH: 2.58 M; CAPACITY: 37 L/S; TOTAL HEAD: 68.4 M; SIZE: 80-270; SPEED: 2900 RPM; STAGE: SINGLE; DRIVER: MOTOR; TYPE: CENTRIFUGAL; MOUNT: FOOT MOUNTING; PUMP IMPELLER DIAMETER: 230 MM; POWER 33,4KW	6
CL EFFL RECOVY PMP 1 & 2 Tapper lock	fenner Flex 2517 x 55	647335	BUSH: TYPE: 2517 TAPER FENNER; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 85.5 MM; LENGTH: 44.5 MM; MATERIAL: STEEL	8

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CL EFFL RECOVY PMP 1 & 2 Tapper bush	Fenner Flex 2517 F- 90 -h	26387	COUPLING, SHAFT FLEXIBLE: TAPER LOCK SERIES: 2517; MATERIAL: CI; REFERENCE NO: F90; COMPLETE WITH RUBBERS; FOR SA FAN MILLS 1- 7 BLANK FLANGED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	12
NTH RAW SEW PMP 1	Pump Horizontal Single Stage Single Suction	630686	PUMP, CENTRIFUGAL: NPSH: 1.92 M; CAPACITY: 17 L/S; TOTAL HEAD: 160 KPA; SIZE: 76 MM2; SPEED: 1455 RPM; STAGE: 1; DRIVER: MOTOR; MOUNT: BASE PLATE; SHAFT DIAMETER: 38.1 MM	16
Sth and North raw sewage PMP V- belts	Sth and North raw sewage PMP V-belts	630681	BELT, V: TYPE: PULLEY; INSIDE CIRCUMFERENCE: 1.5 M; OUTSIDE CIRCUMFERENCE: 1.563 M; TOP WIDTH: 12.7 MM; MATERIAL: NEOPRENE	28 Sets
NTH SEW RECIRC PMP 1	Pump Horizontal Single Stage Single Suction	630612	PUMP, CENTRIFUGAL: NPSH: 1.26 M; CAPACITY: 10 L/S; TOTAL HEAD: 90 KPA; SIZE: 76 MM2; SPEED: 1160 RPM; STAGE: 1; DRIVER: MOTOR; MOUNT: BASE PLATE; SHAFT DIAMETER: 38.1 MM; T3A35 B	6
NTH DIGESTER MIXING PMP 1	Pump Horizontal Single Stage Single Suction	630611	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 20 L/S; TOTAL HEAD: 110 KPA; SIZE: 76 MM2; SPEED: 1250 RPM; STAGE: 1; DRIVER: MOTOR; MOUNT: BASE PLATE; SHAFT DIAMETER: 38.1 MM; T3A35 B	12

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Nth Raw Sewage pump discharge gate valve	100 NB, PN 16Gate valve type	63698	VALVE, GATE: VALVE SIZE: 100 MM; TYPE: WEDGE; CONNECTION: FLANGE; FACE TO FACE LENGTH: 175 MM; BODY MATERIAL: CI; TRIM: BRZ; OPERATED: HANDWHEEL; SOFTGOODS: PACKING ASB GRAPHITED; STEM DESIGN: RISING; STYLE: BOLTED BONNET; DESIGN RATING: 2.06 MPA; FIG NO: 1854 POS CV112; 1854; TEMP RATING 10 BAR AT 50 DEG C; MAX PRESSURE 15 BAR; FLANGE OD 215 MM; PCD 178 MM; DRILLED TO BS TABLE D; MATERIAL AND PRESSURE TEST CERTIFICATES TO BE SUPPLIED ON DELIVERY	8
Nth and South Sump Raw Sump isolation Valve	150 NB Non raise spindle Gate Valve	63728	: VALVE, DIAPHRAGM: VALVE SIZE: 150 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 85 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CAST IRON; DIAPHRAGM MATERIAL: GR Q; OPERATED: HANDWHEEL; STYLE: WEIR; DRAWING NO: 15/3814 SHEET 1 REV 1; MODEL NO: A; SAUNDERS; HALAR/SOFT RUBBER LIGNED DOPO; PRESSURE OPENING; LINE PRESSURE: 55 PSI (3.8 BAR), SPRING FITTED; PRESSURE CLOSING; DRILLED TO TABLE D; PRESSURE TEST CERTIFICATE TO BE SUPPLIED ON DELIVERY	4
Nth and South Raw Sewage pump discharge NRV valve	100 NB, PN 16 Check Valve type	630720	VALVE: TYPE: NON RETURN; VALVE SIZE: 100 MM; DESIGN RATING: 320 KPA; TEMPERATURE RATING: -5 TO 50 DEG C; FACE TO FACE LENGTH: 292 MM; CONNECTION: FLANGE; OPERATED: MANUAL; BODY MATERIAL: CAST IRON	8

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Rotating Arm	Bio- Thrust Bearing	636778	BEARING, THRUST: ROLLING ELEMENT: SHAFT; INSIDE DIAMETER: 60 MM; OUTSIDE DIAMETER: 130 MM; WIDTH: 42 MM; MATERIAL: STAINLESS STEEL; 29412 E SPHERICAL ROLLER THRUST BEARING	8
North PST Scraper gearbox	North PST Scraper gearbox	633074	PUMP: TYPE: SUBMERSIBLE; SIZE: DIA 4 IN; CAPACITY: 900 L/MIN; SPEED: 1465 RPM; RATING: 16 BAR; DRIVER: ELECTRICAL PANEL; MANUF P/N: SAS F-59320; TOTAL HEAD: 18.2 M; POWER: 4 KW	12
Primary Settlement Tank-Gearbox Without Cooler	Gearbox Without Cooler	633070	GEARBOX: TYPE: HELICAL; RATIO: 682:1; SPEED: 1390 RPM; POWER: 0.37 KW; MANUF P/N: FDA 68B-Z38-LA71M4; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	6
Fan Centrifugal	Fan Centrifugal	633075	FAN, ELECTRIC: TYPE: EXTRACTION; SIZE: 500 MM; POTENTIAL: 380 VAC; CURRENT: 12 A; VOLUME RATING: 56330CFM	4
South PST gearbox	South PST gearbox	750963	GEARBOX: TYPE: WORM; RATIO: 60:1; SPEED: 1450 RPM; POWER: 1.1 KW; GEARBOX FOR SOUTH PRIMARY SETTLEMENT TANK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8
Sewage transfer 160NB gate valve	160NB gate valve PN16	638442	VALVE, GATE: VALVE SIZE: 150 MM; TYPE: ISOLATING; DESIGN PRESSURE: 16 BAR; DESIGN TEMPERATURE: -5 TO 50 DEG C; CONNECTION: FLANGE; FACE TO FACE LENGTH: 270 MM; BODY MATERIAL: CAST IRON; TRIM: CAST IRON; OPERATED: MANUAL	6

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Sewage transfer 150NB Check Valve	160 NB Check Valve PN16	73241	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 150 MM; DESIGN RATING: 25 BAR; CONNECTION: FLANGE; BODY MATERIAL: SGI; FACE TO FACE LENGTH: 445 MM; STYLE: BOLTED CAP; TRIM: HINGE PIN SS GR 304; SEAT BRZ; SOFTGOODS: GASKET KLINGERITE; GRADE: LG2-C; FIG NO: 6354; VOSA; SEAT AND DOOR RING BRONZE FITTED; GUN METAL BS 1400; DRILLED TO BS TABLE D; MATERIAL CERTIFICATE AND PRESSURE CERTIFICATE TRACEABLE TO VALVE, TO BE SUPPLIED	6
Sewage transfer 150NB Buuterfly Valve	150 NB Butterfly Valve	70912	VALVE, BUTTERFLY: TYPE: WAFFER; VALVE SIZE: 150 MM; DESIGN RATING: 1000 KPA; CONNECTION: COMPRESSION; BODY MATERIAL: CI; FACE TO FACE LENGTH: 54 MM; OPERATED: HANDWHEEL, GEARBOX; TRIM: DISC SS; SEAT RUBBER; TEMPERATURE RATING AMBIENT; RUBBER LINED; FITTED WITH GEARBOX; OPERATING PRESS 8BAR; APPLICATION DEMIN AND RAW WATER; PRESSURE TEST CERTIFICATE TO BE SUBMITTED/SUPPLIED	14
Wastewater Recovery Pump, Eagle Pumps, 6EJC14	WWR Pumps	0782724	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 325 M3/S; TOTAL HEAD: 45 M; SIZE: 6 X 6 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: MOTOR; SPECIFICATION: 6EJC14; MOUNT: FOOT MOUNTED; EFFICIENCY: 73.	4
V-BELTS 13 x 1430	V-BELTS 13 x 1430	28747	V BELT SET: NUMBER OF BELTS: 4; SUPPL P/N: VB13X8X1430; TO BE BUNDLED AND MARKED, MATCHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLI	24 Sets

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BEARINGS NTN 3313	BEARINGS NTN 3313	30285	BEARING, BALL: TYPE: ANGULAR CONTACT; STYLE: OPEN; INSIDE DIAMETER: 65 MM; OUTSIDE DIAMETER: 140 MM; WIDTH: 58.7 MM; ROW: DOUBLE; SUPPL P/N: 3313A; DUTY: MEDIUM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPL	8
IMPELLER MORRIS	IMPELLER MORRIS	47684	IMPELLER, PUMP: TYPE: 1ST STAGE; DIAMETER: 360 MM; BORE: 95 MM; INLET: SINGLE; MATERIAL: CI; THICKNESS: 85 MM; SHAFT SIZE: DIA 40 MM; FOR MORRIS PUMP 3 VJC; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	4
SLEEVE SHAFT	SLEEVE SHAFT	47709	SLEEVE, SHAFT: TYPE: PUMP; INSIDE DIAMETER: 57 X 45 MM; OUTSIDE DIAMETER: 70 MM; LENGTH: 122 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 619; FOR USE WITH 3JC14 MORRIS	4
LINER SUCTION	LINER SUCTION	47681	DISC: DIMENSIONS: ID 95 X OD 368 MM; MATERIAL: NH; SUPPL P/N: 311; FOR USE ON MORRIS 3JC14 PUMP	4
BUSH THROTTLE	BUSH THROTTLE	47683	BUSH, VALVE: TYPE: THROTTLE; MATERIAL: STL; FOR USE ON MORRIS 3VJC14 PM; SIZE 77MM ID X 90MM OD X 58MM LG	4
CASING PUMP	CASING PUMP	47685	CASING, PUMP: TYPE: VERTICAL SLUDGE; PUMP SIZE: 75 MM; MATERIAL: CI; SUPPL P/N: 3VJC14; 100; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	4

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DISC , SUCTION	DISC , SUCTION	47682	DISC, PUMP: DIMENSIONS: ID 100 X OD 410 X THK 65 MM; MATERIAL: CI; SUPPL P/N: 300; FOR USE WITH MORRIS 3JC14	6
SEAL ;SHAFT S/S 619	SEAL ;SHAFT S/S 619	47680	SEAL, MECHANICAL: SHAFT DIAMETER: 45 MM; BODY MATERIAL: STAINLESS STEEL; SUPPL P/N: 619; SHAFT SLEEVES, FOR USE WITH MORRIS PUMP 3VJC14; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10
SHAFT	SHAFT	47710	SHAFT, PUMP: LENGTH: 790 MM; MATERIAL: STL; NOMINAL DIAMETER: 58 MM; END STYLE 1: DIA 55 X SLOT 16 MM; END STYLE 2: DIA 1-3/4 IN X THD 5 MM; SUPPL P/N: 600; FOR USE ON MORRIS 3JC14 PUMP	4
V-BELTS	V-BELTS	28898	V BELT SET: NUMBER OF BELTS: 4; SUPPL P/N: 22NSPC2360; TO BE BUNDLED AND MARKED, MATCHED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8 Sets
BRG THRST	BRG THRST	32236	BEARING, BALL: TYPE: ANGULAR CONTACT; STYLE: OPEN; INSIDE DIAMETER: 120 MM; OUTSIDE DIAMETER: 215 MM; WIDTH: 40 MM; ROW: SINGLE; FOR MORRIS SLUDGE PUMP; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8

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7313 BRG	7313 BRG	30157	BEARING, BALL: TYPE: ANGULAR CONTACT; STYLE: OPEN; INSIDE DIAMETER: 65 MM; OUTSIDE DIAMETER: 140 MM; WIDTH: 33 MM; ROW: SINGLE; SUPPL P/N: 7313B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8
WWR NRV	Check Valve 250 NB	73230	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 50 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI; FACE TO FACE LENGTH: 635 MM; STYLE: BOLTED CAP; TRIM: DISC/SEAT BRZ; SOFTGOODS: JOINT KLINGERITE; FIG NO: 6154; SAFE WORKING PRESSURE: 13.8 BAR; FLANGE HOLES DRILLED 22 MM DIA ON 356 MM PCD; 12 HOLES; DRILLED TO BS10 TABLE E FOR USE ON CONDENSATE NRV AT DEA MATERIAL CERTIFICATE AND PRESSURE TEST CERT TRACEBLE TO VALVE TO BE SUPPLIED ON DELIVERY	6
Starter for diesel pump for sewage	STARTER: TYPE: MANUAL; 12V MOTOR; 11 TEETH; BRACKET PCD 105MM	659652	STARTER: TYPE: MANUAL; 12V MOTOR; 11 TEETH; BRACKET PCD 105MM	8
Grvity Separation 1 and 2 inlet Isolation Valve	300NB Butterfly Valve	63155	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 300 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 80 DEG C; CONNECTION: CLAMP; BODY MATERIAL: IRON GRAY; OPERATED: GEAR; TRIM: DISC SGI NYLON COATED; SEAT NITRILE BLACK; SOFTGOODS: SEAL EPDM; SUPPL P/N: IBG2JS; AUDCO SLIMSEAL BRAND; SHORT PATTERN; BS 5155, 56 MM	6

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Sump Pump (Sth and North Raw Sewage)	380V Sump pump	633074	PUMP: TYPE: SUBMERSIBLE; SIZE: DIA 4 IN; CAPACITY: 900 L/MIN; SPEED: 1465 RPM; RATING: 16 BAR; DRIVER: ELECTRICAL PANEL; MANUF P/N: SAS F-59320; TOTAL HEAD: 18.2 M; POWER: 4 KW	8
Hubber screen gearbox	Gearbox	0776153	GEARBOX: TYPE: BF40-74/WDPE09XA4/C2-SP, RATIO: 1:110, SPEED: 13RPM, POWER: 1.1KW, GEARBOX SERIAL NUMBER E2137079-2/A/188 T4928 16/2018, HUBBER SCREEN SERIAL NUMBER: S-101095127-1	3
Inlet channel sluice gate	Sluice gate	0766994	GATE, SLUICE: TYPE: WALL MOUNTED SLUICE GATE VALVE; DIMENSIONS: WD600 x HT600 MM; OPERATED: HAND WHEEL; MATERIAL: S/S (304L)	3
Wastewater Recovery Pump	WWR Pump	0782724	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 325 M3/S; TOTAL HEAD: 45 M; SIZE: 6 X 6 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: MOTOR; SPECIFICATION: 6EJC14; MOUNT: FOOT MOUNTED; EFFICIENCY: 73.	4

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4.1 Effective Date

This document will be effective from the date that the contract is authorised.

5. Requirements

5.1 Handling and Transportation

The *contractor* is expected to practice safe handling techniques during the onloading, offloading, and throughout the transportation of the spares, if necessary. The *Employer's* representative will not accept any damaged items upon delivery.

Should the delivered spares be found to be defective or out of spec, the contractor remains responsible for the handling and transportation in the replacement process of the item(s).

5.2 Safety Requirements

The Contractor is to comply with the latest revision of the Eskom Generation Plant Safety Regulations, site specific procedures, and stipulations of the OHS Act.

5.3 Documentation to be Submitted by the Contractor

The following documents must be submitted with every delivery:

- Material data sheet as per OHSA requirements.
- GA Drawings where applicable
- Technical specifications

5.4 Quality Assurance Requirements

The Contractor is to be responsible to record and archive all off-site, factory tests and on-site tests.

6. Authorisation

This document has been seen and accepted by:

Name	Designation
Aphiwe Zondi	Auxiliary Maintenance Technician
Andrew Malatswane	Auxiliary Maintenance Manager (Acting)

7. Revisions

Date	Rev.	Compiler	Remarks
January 2026	0	Sifiso Ndlovu	New Document

8. Development Team

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

Sifiso Ndlovu

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9. Acknowledgements

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