

**Specification****Matimba Power Station**

Title: Supply and delivery of transmitters, transducers and indicators to Matimba Power Station for five years on an as and when required basis.

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## **1. Introduction**

Eskom, Matimba Power Station Management has decided to outsource the supply and delivery of transmitters, transducers and indicators services Scope of Work to an experienced, well-established and qualified Service Provider.

This document describes the detail of the applicable requirements, scope of work, specifications, terms & conditions as well as the criteria to qualify for the tender.

## **2. Supporting Clauses**

### **2.1 Scope**

This document sets out the detailed User Scope of Work requirements necessary for the transmitters, transducers and indicators Maintenance services.

#### **2.1.1 Purpose**

The purpose of this document is to define a User Scope of Work requirement based on which a supply contract will be established between the Employer and the supplier.

Matimba Power Station is expected to perform at EAF>722, PCLF<9.79 and UCLF<15.48, and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified user supply requirements scope of work.

#### **2.1.2 Applicability**

This document shall apply to the user requirements of supply of fittings and pipes to Matimba Power Station.

#### **2.1.3 Effective date**

The effective date of this document is as per the date and signature of the authorizer, as indicated on the cover page of this document.

## **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] 32 – 1034: Procurement and Supply Chain Management Procedure
- [3] 32- Preferential Procurement Policy Framework Act 5 of 2000

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## 2.2.2 Informative

- [1]. 240-62072907: Eskom Delegation of Authority Policy.
- [2]. 240-165040111: Supplier Terms Policy
- [3]. 32-1033: Procurement and Supply chain Management Policy
- [4]. 240-141007195: Electronic Signature usage Policy
- [5]. 240-156280553: Procedure for signing documentation electronically using the Eskom electronic signing system.
- [6]. 240-168966153: Generation Tender Technical Evaluation Procedure

## 2.3 Definitions

- 2.3.1. **Ad hoc:** A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.
- 2.3.2. **Contractor:** Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.
- 2.3.3. **Controlled Disclosure:** Controlled disclosure to external parties (either enforced by law, or discretionary).
- 2.3.4. **Employer:** Eskom or Eskom Generation, Matimba Power Station.
- 2.3.5. **Parties:** The Employer and the Contractor.
- 2.3.6. **Supply Manager:** The Employer's representative regarding the supply contract agreement.
- 2.3.7. **Task Order:** The Service Manager's instruction to perform a task. SAP PM orders will also be used as task orders.

## 2.4 Abbreviations

Abbreviation	Description
'NECSC	Supply Contract Document
NEC3	New Engineering Contract
URS	User Requirement Specification.
CFT	Cross Functional Team
OEM	Original Equipment Manufacturer.
PCM	Process Control Manual.
PDF	Portable Document Format.
QCP	Quality Control Plan.

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SAP	Systems, Applications Products.
TET	Technical Evaluation Team
SME	Subject Matter Expert

## 2.5 Roles and Responsibilities

### 2.5.1 Supply Manager

1. Co-ordinating and Manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manage and maintain records and correspondence between the employer and service provider.
6. Ensures that the service provider comply with the terms and conditions of the contract.
7. Keep the records of the contract for history and audit purposes.

### 2.5.2 Contractor

1. Supply of spares service to the *Employer* in accordance with Matimba Power Station procurement process as per spares URS.
2. Ensure that quality of spares delivered in Process for Monitoring in accordance with the Scope of Work as stipulated within Matimba Power Station spares URS.
3. The supplier shall ensure that all spares are accompanied by their related user specification as per their URS

## 2.6 Process of Monitoring

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control (QC) by an End User to ensure that description of delivered items complies with that of the order.

## 2.7 Related/Supporting Documents

- [1]. NEC 3 Supply Contract.

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### **3. Document Content**

#### **3.1 General**

##### **3.1.1 Adherence to Eskom General Policies & Standards**

The Supplier shall ensure that their Employees delivering spares to site comply with Eskom's policies and site regulations and Eskom's Life Saving Rules.

##### **3.1.2 Quality Standard**

The Supplier shall ensure that the quality of spares delivered to Matimba is as per the ISO 9001 Standard to support Matimba's objective of improving performance.

##### **3.1.3 Document Control**

All contractual communication between the *Employer* and *Supplier* shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

##### **3.1.4 Contractual Meetings**

a) ADHOC Meetings can be scheduled and agreed upon.

##### **3.1.5 Correspondence**

All verbal and non – verbal communication between the *Employer* and *Supplier* shall be communicated in an electronic format which can be read or copied.

##### **3.1.6 Task Order**

The *Contractor* shall by no means carry out spares deliveries in terms of the Scope of Work, without the approval of the *Employer* by issue of a purchase order.

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work, without the approval an official SAP Task Order Number being supplied by the *Employer* to the *Contractor*

### **3.2 Scope of Work Information**

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<b>Supply and delivery of transmitters, transducers and indicators to Matimba Power Station for five years on an as and when required basis</b>						
Item	Stock nr	Material Description	Uo M	QTY	Unit Price	Amount
1	222847	TRANSMITTER, PRESSURE: RANGE: 2-100 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: G1/2; ELECTRICAL CONNECTION: 2 WIRE/BLIND PLUG; BODY MATERIAL: ALUMINIUM; DIAPHRAGM MATERIAL: HASTELLOY C276; TYPE: MEASURE; MOUNT: PIPE; SPECIFICATION: GS 01C25F01-01E; ENCLOSURE: IP55; SUPPL P/N: EJX530A-JCS8N-019EL; WITH DIGITAL COMMUNICATION HART PROTOCOL; MEASUREMENT SPAN CAPSULE 0.2 TO 10 MPA; WETTED PARTS: PROCESS CONNECTION 316 SS; PROCESS CONNECTION DIN 16 288; AMPLIFIER HOUSING, CAST ALLUMINIUM ALLOY; ELECTRICAL CONNECTION M20 FEMALE; INTEGRAL INDICATOR DIGITAL WITH THE RANGE SETTING SWITCH; MOUNTING BRACKET 304 SST 2 IN	EA	100		
2	222848	TRANSMITTER, PRESSURE: RANGE: 10-500 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: G1/2; SUPPL P/N: EJX530A-EDS8N-019EL; YOKOGAWA ONLY, CONNECTION DIN 16 288 MALE	EA	100		
3	222849	TRANSMITTER, DIFFERENTIAL PRESSURE: RANGE: 0-140 KPA; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: 1/2 IN-FNPT; SUPPL P/N: EJA110E-JVS4G-919EB/JH01; YOKOGAWA ONLY, PROCESS CONNECTOR; DUVHA 7 POINT CALIBRATION CERTIFICATE REQUIRED	EA	100		
4	223041	TRANSMITTER, LEVEL: RANGE: 0-5 M; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: TERMINALS; WORKING PRESSURE: ANALOG; ELECTRICAL CONNECTION: 4 WIRE; SUPPL P/N: DL34-01; SHORTI	EA	100		
5	223303	TRANSMITTER, TEMPERATURE: RANGE: 0-350 DEG C; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; TYPE: THERMOCOUPLE; SUPPL P/N:	EA	50		

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		7NG1205-4AD45-4LA5; THERMOCOUPLE, 4 WIRE SYSTEM, WITH ONE CHANGE OVER CONTACT, INPUT FOR NICR-NI THERMOCOUPLE				
6	223304	TRANSMITTER, TEMPERATURE: RANGE: 0-100 DEG C; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; TYPE: THERMOCOUPLE; SUPPL P/N: 7NG1205-4AD45-4LW9; THERMOCOUPLE, 4 WIRE SYSTEM, WITH ONE CHANGE OVER CONTACT, INPUT FOR NICR-NI THERMOCOUPLE	EA	150		
7	224694	TRANSMITTER, DIFFERENTIAL PRESSURE: RANGE: -100 TO 100 KPA; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 100 KPA; CONNECTION: 1/2 IN-FNPT; TYPE: MEASURING; MODEL NO: EJX110A- EMS4G-919-EB	EA	100		
8	248917	TRANSMITTER, PRESSURE: RANGE: 25 BAR; OUTPUT: 4-20 MA; SUPPLY: 12 TO 30 VDC; CONNECTION: 1/2 BSP; APPLICATION: TURBINE SERVO MOTOR & CONTROL UNIT; REFERENCE NO: PMP 131-A3401A1W	EA	100		
9	253201	TRANSMITTER, LEVEL: OUTPUT: 4-20 MA; SUPPLY: 90-253 VAC 23 VA 50/60 HZ; TYPE: LEVEL CONTROL; MANUF P/N: FMU90-R21CA131AA1A	EA	100		
10	255595	TRANSMITTER, DIFFERENTIAL PRESSURE: RANGE: 0.5-100 KPA; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 16 MPA; CONNECTION: 1/2 IN-FNPT; DIAPHRAGM MATERIAL: SS GR F316L; BODY MATERIAL: SS GR 304; ELECTRICAL CONNECTION: 2 WIRE/BLIND PLUG; APPLICATION: BOILER/TURBINE; TYPE: MEASURE; SPECIFICATION: GS01C25B01-01E; MOUNT: JIS SUS FLAT, PIPE; ENCLOSURE: IP55; SUPPL P/N: EJX110A-EMS4G-919EB; CAPILLARY LENGTH NONE; OUTPUT SIGNAL WITH DIGITAL COMMUNICATION (HART PROTOCOL); MEASUREMENT SPAN(CAPSULE) 0.5 TO 100 KPA; PROCESS CONNECTION CONNECTOR;	EA	100		

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		BOLTS AND NUTS 316L STAINLESS STEEL; INSTALLATION HORIZONTAL PIPING AND LEFT SIDE HIGH PRESSURE; AMPLIFIER HOUSING; ELECTRICAL CONNECTION M20 FEMALE; INTEGRAL INDICATOR DIGITAL WITH THE RANGE SETTING SWITCH; MOUNTING BRACKET 304 SST 2 INCH PIPE; FLAT TYPE FOR HORIZONTAL PIPING; WETTED PARTS:- COVER FLANGE AND PROCESS CONNECTOR ASTM CF-8M; CAPSULE HASTELLOY C-276; CAPSULER GASET TEFLON COATED 316L SST; DRAIN/VENT PLUG 316 SST; PROCESS CONNECTOR			
11	257323	TRANSMITTER, LEVEL: OUTPUT: 4-20 MA; SUPPLY: 10.5-45 VDC; WORKING PRESSURE: 40 BAR; TYPE: DELTA BAR; SUPPL P/N: SZ 5001 4244	EA	30	
12	527491	TRANSMITTER, PRESSURE: RANGE: 035 TO 70 MPA; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: 1/2 IN FEMALE; ELECTRICAL CONNECTION: FEMALE M20; BODY MATERIAL: SS 316L; DIAPHRAGM MATERIAL: HASTELLOY C276; TYPE: GAUGE; APPLICATION: EFP; MANUF P/N: EJX630A-JDS4N-019EN; SPAN: 0.35-70MPA; VOLTAGE SUPPLY: HART 10.5-42VDC OR FIELD BUS: 9-32VDC	EA	100	
13	527767	TRANSMITTER, TEMPERATURE: RANGE: 0-900 DEG C; OUTPUT: 4-20 MA; SUPPLY: 10.5-42 VDC; TYPE: MEASURE; APPLICATION: TURBINE PLANT TEMPERATURE; MOUNT: RAIL; MANUF P/N: T32.35.000-Z	EA	100	
14	554623	TRANSMITTER: TYPE: POSITION; RANGE: 20-70 DEG; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; APPLICATION: CCI VALVE; MOUNT: BRACKET; ENCLOSURE: IP65; DRAWING NO: 7.21/12.07 AV 4.7 FIG 4.6 REV 0 ITEM 005; REFERENCE NO: R-SG15/16; TUV CERTIFICATION STATUARY CERTIFICATION IS ESSENTIAL FOR THESE BOILER SAFETY SASTEMS (OEM) CCI	EA	100	

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15	566794	TRANSMITTER, TEMPERATURE: RANGE: -40 TO 85 DEG C; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; TYPE: MEASURE; APPLICATION: BOILER; MOUNT: DIN RAIL; SPECIFICATION: ATEX 2014/34/EU; CLASSIFICATION: NON HAZARDOUS; ENCLOSURE: IP20; MANUF P/N: PR6334A; USED FOR SINGLE TEMPERATURE MEASUREMENT	EA	100		
16	566795	TRANSMITTER, TEMPERATURE: OUTPUT: 4-20 MA; SUPPLY: 24 VDC; TYPE: MEASURE; APPLICATION: BOILER; MOUNT: DIN RAIL; MANUF P/N: PR6335A; ALSO USED FOR DIFFERENTIAL TEMPERATURES	EA	100		
17	567939	TRANSMITTER, LEVEL: RANGE: 0-2000 MM; OUTPUT: 4-20 MA; SUPPLY: 11-30 VDC; CONNECTION: GUIDE TUBE 14 MM; WORKING PRESSURE: 1 BAR; TYPE: MAGNETIC FLOAT; BODY MATERIAL: ALUMINIUM; DIAPHRAGM MATERIAL: STAINLESS STEEL; APPLICATION: CONTINUOUS LEVEL MEASUREMENT; SPECIFICATION: EN 61326; MOUNT: BOTTOM; ENCLOSURE: IP65; MANUF P/N: BLR-SB; MODEL NO: MG-AUVK10/T15-LS 150/M2 000/14; REED SENSOR FOR BYPASS LEVEL INDICATORS	EA	100		
18	582152	DRIVE: TYPE: POSITION TRANSMITTER; MANUF P/N: Z002.880; REFERENCE NO: 566.0; RWG-4020-ASSY-0/4; 20MA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	20		
19	583237	TRANSMITTER, FLOW: TYPE: BIAS AIR FLOW; RANGE: 0-2000 KG/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; MODEL NO: SIP-05-06-DC24-AIR; BIAS; PRIME SERIES THERMAL MASS FLOW METER; (S/N:31197-27344) MWO=85; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100		

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20	590921	SENSOR: TYPE: REMOTE; RANGE: 24 M; RATING: 10-55 HZ; ELECTRICAL CONNECTION: 4 PIN; MOUNT: SCREW IN; DIMENSIONS: DIA 12 X LG 58 MM; PROBE DIAMETER: 12 MM; MANUF P/N: LT 100H TB58 J; OPERATIONAL TEMPERATURE: -25-65 DEG C; SEALING CLASS: IP65; LIGHT IMMUNITY; 20:>80 000 LUX	EA	30		
21	599439	PANEL, CONTROL: TYPE: MULTI PANEL OPERATOR; OEM P/N: 6AV6643-0CB01-1AX0; SIMATIC MP 277 MULTI PANEL; OPERATOR INTERFACE TERMINAL; 7.5-INCH; COLOR; TOUCHSCREEN; ARM CPU; 6MB CONFIGURING MEMORY 1 X 12 MBIT/S RS-422/485 INTERFACE PORT (IE/PN) 1 X SD/MULTI MEDIA CARD; WINDOWS CE OPERATING SYSTEM; CONFIGURABLE WITH WINCC FLEXIBLE STANDARD 2005 SP1 AND HIGHER; 24VDC POWER; MULTI MEDIA CARD SLOT; 2 X USB PORTS; 640 X 480 TFT LCD WITH 65K COLORS	EA	10		
22	607708	TRANSMITTER, PRESSURE: RANGE: 0-25 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: GLAND; BODY MATERIAL: SS GR 316L; DIAPHRAGM MATERIAL: ALLOY C22 (2.4610); TYPE: METALLIC MEASURING CELL; APPLICATION: GASES; VAPOURS; LIQUIDS; SPECIFICATION: DIN 33-DIN 11864-1-A; ENCLOSURE: IP66/67; CONTACT ARRANGEMENT: 1NO 1NC; OEM P/N: B83.AXDUSGISSXKIMXX	EA	100		
23	607716	TRANSMITTER, PRESSURE: RANGE: 0-25 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: THD 20 MM; ENCLOSURE: IP66/67; OEM P/N: B83.AXDUSGISHXKIMAX	EA	30		
24	611405	TRANSMITTER, FLOW: TYPE: WATER FLOW; RANGE: 0-10 MS; OUTPUT: 4-20 MA; SUPPLY: 115/230 VAC 50/60 HZ; 17 VA; 12-24 VDC; BODY MATERIAL: POLYAMIDE GLASS FIBER REINFORCED; APPLICATION: MAGFLOW; ENCLOSURE: IP20; CLASSIFICATION: WATER; OEM P/N: 7ME6910-1AA10-1AA0; SITRANS FM; VENDORS ARE RESPONSIBLE FOR	EA	100		

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		ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			
25	612756	TRANSMITTER, PRESSURE: RANGE: 0.3-30 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: 1/4 IN-FNPT; BODY MATERIAL: SCS14A; ENCLOSURE: IP65; OEM P/N: EJA430A-EAS3B-92NN/KU22/D3	EA	50	
26	613330	TRANSMITTER, FLOW: TYPE: GAS; RANGE: 0-1000 KPA; OUTPUT: 4-20 MA; SUPPLY: 220 VAC; WORKING PRESSURE: 150 KPA; BODY MATERIAL: SS GR 316L; DIAPHRAGM MATERIAL: ALLOY C276; APPLICATION: CO2 GAS; CLASSIFICATION: EXPLOSION PROOF; OEM P/N: 755966-C-32-B-1-H-64-A-022-C-0537; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	10	
27	613331	TRANSMITTER, FLOW: TYPE: GAS; RANGE: 0-1000 KPA; OUTPUT: 4-20 MA; SUPPLY: 220 VAC; WORKING PRESSURE: 400 KPA; BODY MATERIAL: SS GR 316L; DIAPHRAGM MATERIAL: ALLOY C276; APPLICATION: H2 GAS; CLASSIFICATION: EXPLOSION PROOF; OEM P/N: 775450-D-32-C-1-9-280-B--087-C-609; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100	
28	618410	TRANSMITTER, LEVEL: RANGE: 0-40 M; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: CABLE; WORKING PRESSURE: 0.5 BAR; TYPE: HAND PROGRAMMER; SPECIFICATION: LR560; REFERENCE NO: 7ML54400GB000AA2	EA	100	

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29	622556	TRANSMITTER: TYPE: LINEARIZED TEMPERATURE MEASUREMENT; RANGE: -800 TO 800 MV; OUTPUT: 4-20 MA; SUPPLY: 8-35 VDC; APPLICATION: SIL INSTALLATIONS; CLASSIFICATION: ZONE 2/22; CONNECTION: 2 ANALOG INPUTS; MOUNT: DIN RAIL; SPECIFICATION: KEMA 03ATEX1508; ENCLOSURE: IP68; REFERENCE NO: 5337A	EA	100		
30	624474	METER, FLOW: TYPE: MONITOR; CONNECTION: FLANGE DN 50; RANGE: 100-500 L/MIN; MATERIAL: BRASS; OEM P/N: V15-FA50	EA	100		
31	624475	METER, FLOW: TYPE: MONITOR; CONNECTION: THREADED; RANGE: 2-6 L/MIN; MATERIAL: CU ALLOY; NOMINAL BORE: 25 MM; REFERENCE NO: TIVG SK661 0028	EA	100		
32	630032	TRANSMITTER, FLOW: TYPE: ELITE REMOTE; RANGE: -30 TO 55 DEG C; OUTPUT: 0-20 MA; SUPPLY: 85-265 VAC; 18-30 VDC; APPLICATION: SULPHUR SO3 PLANT; ENCLOSURE: NEMA 4X; OEM P/N: 9739MVD61MAEZZZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100		
33	630033	TRANSMITTER, FLOW: MASS; RANGE: 0-1000 NMCH; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; BODY MATERIAL: SS GR 316; REFERENCE NO: SIP-05-06-DC24-AIR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	15		
34	630034	TRANSMITTER, FLOW: TYPE: AIR DILUTION; RANGE: 0-4500 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 0-24 VDC; WORKING PRESSURE: 500 PSIG; CONNECTION: NPT; BODY MATERIAL: PLASTIC/STL; DIAPHRAGM MATERIAL: BAKALINE; ELECTRICAL CONNECTION: WIRE; APPLICATION: COMPRESSED AIR FLOW; ENCLOSURE: IP67;	EA	15		

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		CLASSIFICATION: GAS; REFERENCE NO: SIP-05-06-DC24-AIR; OPERATING TEMPERATURE 240 DEG C; SCHEDULE 40; 84MWO; 150NB; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			
35	631204	TRANSMITTER, LEVEL: RANGE: 0-16 KPA; OUTPUT: 4-20 MA; SUPPLY: 24 VAC; CONNECTION: G1-1/2 IN-BSPP DIN 16; 288 MALE; WORKING PRESSURE: 13.24 KPA; REFERENCE NO: EJX530A-JAS8N-019EL	EA	2	
36	631559	TRANSMITTER, FLOW: TYPE: MASS; RANGE: 0-1000 NMCH; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; BODY MATERIAL: SS GR 316; REFERENCE NO: SIP-05-06-DC24-AIR; 1/2 IN COMPRESSION FITTING-SS FERRULE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	100	
37	639868	TRANSMITTER, LEVEL: RANGE: 32 FT; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: 20 MM; WORKING PRESSURE: ZERO; TYPE: ULTRASONIC; ELECTRICAL CONNECTION: 3/4 WIRE; APPLICATION: LIQUIDS/SOLIDS; SPECIFICATION: KMICRO A/B/C/D; MOUNT: FLANGE; ENCLOSURE: IP65; ENCLOSURE: POLYCARBONATE; BEAM ANGLE 10DEG C; TEMP RANGE: -30 TO 65DEG C; ACCURACY: 0.25% OF FULL SCALE; CONFIGURATION: TOUCH BUTTONS KEYS; BLANKING DISTANCE: 0.35M	EA	100	
38	667408	TRANSMITTER, FLOW: TYPE: THERMAL MASS FLOW METER; RANGE: 0-2000 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: BIAS AIRFLOW ON THE SO3 PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; THE SERIAL NUMBER &	EA	20	

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		TRANSMITTER RANGE MUST BE INDICATED ON TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE TRANSMITTER BODY; INTEGRAL STYLE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			
39	667442	TRANSMITTER, FLOW: TYPE: THERMAL MASS FLOW METER; RANGE: 0-1000 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: DILUTION AIR FLOW ON THE SO3 PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; INTEGRAL STYLE; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; SERIAL NUMBER & TRANSMITTER RANGE MUST BE INDICATED ON THE TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE TRANSMITTER BODY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	15	
40	667449	TRANSMITTER, FLOW: TYPE: PROCESS AIRFLOW; RANGE: 0-4500 M3/HR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 500 PSIG; BODY MATERIAL: SS 316L; ELECTRICAL CONNECTION: TERMINAL BLOCK; APPLICATION: SO3 PLANT; REFERENCE NO: SIP-05-06-DC24-AIR; INTEGRAL STYLE; MUST BE SUPPLIED WITH A TEST CERTIFICATE ATTACHED TO THE TRANSMITTER; THE SERIAL NUMBER & TRANSMITTER RANGE MUST BE INDICATED ON TEST CERTIFICATE; THE TRANSMITTER RANGE MUST BE STAMPED ON THE BODY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	50	

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41	670169	TRANSMITTER, LEVEL: RANGE: 0-2.5 MHO M2/MOL; OUTPUT: 4-20 MA; SUPPLY: 24V;10-30 DCV; CONNECTION: 3 WIRE; (BROWN +/GREEN-/GREY SHIELD); WORKING PRESSURE: 0-2.5 MHO M2/MOL; TYPE: SUBMERSIBLE; BODY MATERIAL: STAINLESS STEEL; DIAPHRAGM MATERIAL: STAINLESS STEEL; ELECTRICAL CONNECTION: SHORT-CIRCUIT RESISTANCE; REVERSE POLARITY PROTECTION & INSULATION VOLTAGE; APPLICATION: LEVEL MEASUREMENT; SPECIFICATION: IEC 61298-2; MOUNT: TERMINAL BOX; ENCLOSURE: IP68; REFERENCE NO: LS-10; CABLE LENGTH: 3 METRE; STANDARD VERSION	EA	100		
42	670181	TRANSMITTER, LEVEL: RANGE: 0-0.4 BAR; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; CONNECTION: G1-1/2B; WORKING PRESSURE: 0-4 MHO; TYPE: SUBMERSIBLE; BODY MATERIAL: STAINLESS STEEL; ELECTRICAL CONNECTION: TERMINALS; SHORT CIRCUIT RESISTANCE; APPLICATION: VESSEL & STORAGE SYSTEMS; SPECIFICATION: IEC 61298-2; MOUNT: TERMINAL BOX; ENCLOSURE: IP68; REFERENCE NO: LS-10; INSULATION VOLTAGE DC500V;	EA	100		
43	693851	TRANSMITTER, PRESSURE: RANGE: 8-200 KPA ABS; OUTPUT: 4-20 MA; SUPPLY: 10.5-42 VDC; CONNECTION: G1/2 DIN 16-288; MALE 316L SST; ELECTRICAL CONNECTION: FEMALE M20; BODY MATERIAL: CAST ALUMINUM ALLOY; DIAPHRAGM MATERIAL: HASTELLOY C276; TYPE: ABSOLUTE; APPLICATION: LP EXHAUST PRESSURE; CLASSIFICATION: STEAM PRESSURE MEASUREMENT; MOUNT: 316 SS; 2 INCH PIPE; SPECIFICATION: IEC61508:2010; ENCLOSURE: CAST ALUMINUM ALLOY; OEM P/N: EJX510A-EAS8N-019EF; 2 ELECTRICAL CONNECTIONS WITH BLIND PLUG	EA	20		

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44	695255	TRANSMITTER, LEVEL: RANGE: 0-10 M; OUTPUT: 4-20 MA; SUPPLY: 11.5 TO 35 VDC; CONNECTION: SCREW IN ROD; WORKING PRESSURE: -1 TO 400 BAR; TYPE: GUID AVE RADAR; BODY MATERIAL: SS GR 316; ELECTRICAL CONNECTION: GLAND; SPECIFICATION: EN1020-4-3.1; MOUNT: FLANGE; ENCLOSURE: IP68; OEM P/N: FMP51-BCACCBAAA4RDJ	EA	20			
45	701291	TRANSMITTER, DIFFERENTIAL PRESSURE: RANGE: 0.5-100 KPA; OUTPUT: 4-20 MA; SUPPLY: 24 VDC; WORKING PRESSURE: 100 KPA; CONNECTION: FLANGE; APPLICATION: BOILER/TURBINE; TYPE: COMMISSIONING SPARES/TEST EQUIPMENT; MOUNT: BASE; REFERENCE NO: EJX110A-JMS4G-919EB/KU22	EA	20			
46	713400	TRANSMITTER, FLOW: TYPE: SULPHUR FLOW; RANGE: 4-20 MA; OUTPUT: 4-20 MA; SUPPLY: 85-365 VAC; 50/60 HZ; CONNECTION: M20; BODY MATERIAL: ALUMINIUM; ELECTRICAL CONNECTION: CONDUIT; APPLICATION: SO3 PLANT; ENCLOSURE: IP65; CLASSIFICATION: CLASS 1, DIV 1 EXPLOSION PROOF - CSA AND CSA-US; REFERENCE NO: 5700R12DEFAZZZBBZZ; 5700 FIELD MOUNT TRANSMITTER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	70			
47	714935	ANALYZER: TYPE: OXYGEN; RANGE: 0-6000 PPM; POWER SOURCE: 220-240 V; REFERENCE NO: S0870998D; O2; COE; SERVOTOUGH FLUEGAS EXACT COMB ANALYSER 2700D CONTROL UNIT; WALL MOUNTED; ENCLOSURE OPTION: BLANKING PLUGS ONLY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	10			

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48	714936	ANALYZER: TYPE: OXYGEN; RANGE: 0-6000 PPM; POWER SOURCE: 220-240 VAC; REFERENCE NO: S0870976D; O2: 0-21 PCT; COE; SERVOTOUGH FLUEGAS EXACT COMB ANALYSER; TYPE: HAX AREA ATEX CAT 3 MINI PURGE: MINIPURGE ATEX CAT3/IEC EX ZONE 2; SUPPLY VOLTAGE: 240 V AC; SAMPLE PROBE: 0.5 M SS SAMPLE PROBE; UNSUPPORTED; OPEN-ENDED <700C INTERNAL FILTER 5 UM: FITTED; INTERNAL FLAME ARRESTORS; FITTED; ELECTRICAL CONDUIT ENTRIES: 3/4 NPT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	10		
49	0767389	TRANSMITTER, PRESSURE: RANGE: -40 TO 40 KPA; OUTPUT: 4 TO 20 MA; SUPPLY: 10.5 TO 35 VDC; CONNECTION: SST 1/2 INCH FNPT; ELECTRICAL CONNECTION: G 1/2 INCH FEMALE; BODY MATERIAL: CAST ALUMINIUM; DIAPHRAGM MATERIAL: 316L; TYPE: ABSOLUTE AND GAUGE PRESSURE; MOUNT: 2 INCH PIPE MOUNTING; SPECIFICATION: IEC 61508-2010; REFERENCE NO: PMP71B-92 324/0	EA	50		
50	766464	TRANSMITTER: TYPE: PRESSURE; RANGE: -2.4 to 0 KPA; OUTPUT: 4 to 20 MA; SUPPLY: 11.5 to 45 VDC; APPLICATION: NEGATIVE PRESSURE/VACUUM MONITORING. DUST SYSTEM; CLASSIFICATION: PROCESS; CONNECTION: 1/2 NPT MALE THREAD; REFERENCE NO: PMC731-R11C1E11A1; PRESSURE TRANSMITTER, VACUUM RANGER -4 TO 10KPA, 4-20MA, 1/2 NPT ,11.5- 45 VDC. TRANSMITTER IS USED ON THE DHP PLANT TO MEASURE VACUUM PRESSURE. PMC731-R11C1E11A1	EA	50		

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#### 4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Gibson Moloto	Senior Technician
Debbie Noko	Senior Technician
Joseph Hlongwane	Senior Advisor
Vukani Gebashe	Engineer
Mauritz Grobler	Senior Technologist

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
August 2025	1	M Grobler.	To clearly specify requirements for the procurement of PLCs and related spares

#### 6. DEVELOPMENT TEAM

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

Name & Surname	Designation
Joseph Hlongwane	Senior Advisor
Debbie Noko	Senior Technician
Gibson Mplptp	Senior Technician
Mauritz Grobler	Senior Technologist

#### 7. ACKNOWLEDGEMENTS

- Mauritz Grobler

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