	Specification	Medupi Power Station
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Title: **Medupi Power Station Scope of work for the supply of Regulators**

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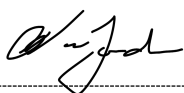
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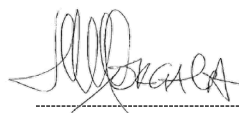
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1. Introduction

The reliability and availability of the Regulators in general, is a concern for Medupi Power station due to unplanned downtime, and it has contributed too many production risks on the Units. Initiatives to improve the reliability and availability of the Regulators amongst others includes, placing spares supply contracts for continuous involvement on the plant on a daily basis.

This document will describe the scope of work required for this contract.

2. Supporting Clauses

2.1 Scope

This document will cover the requirements for the Supply of a specific spare for the Medupi Plant Regulators.

2.1.1 Purpose

The purpose of this document is to provide the SOW for the Spares Supply Contract.

2.1.2 Applicability

This document shall apply to requirements for the Supply of a specific spare for the Medupi Plant Regulators.

2.1.3 Effective date

The document will be effective from 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) ESKOM SHEQ Policy 32-727
- 2) Life Saving-Rules – 240-62196227 Medupi Power Station - SHE File Evaluation Checklist - 240-97661287

2.2.2 Informative

N/A

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2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted for the supply of spares and various services on the machines
Employer	Eskom Medupi Power Station

2.4 Abbreviations

Abbreviation	Explanation
SHE	Safety Health and Environmental
SHEQ	Safety Health Environmental and Quality

2.5 Roles and Responsibilities

Maintenance – Materials Management is responsible and accountable for ensuring that the Service is provided as per the SOW. Maintenance – Materials Management will also be managing the contract.

Engineering will be involved in documentation review and will be part of the quality control.

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

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

N/A

3. Scope of Work

The reliability and availability of the Regulators, in general, is a concern for Medupi Power station due to unplanned downtime, and it has contributed too many production risks on the Units. Initiatives to improve the reliability and availability of the Regulators, amongst others includes, placing spares supply contracts for continuous involvement on the plant on a daily basis.

3.1 Supply of Spares

The scope of this contract also includes the supply of spares as follow:

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1. Description of Items:

Material	Material description	Long Description
655993	REGULATOR FLTR:B72G-2AK-QM3-RMN 565;AIR	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: ZINK; INLET PRESSURE: 0.3-10 BAR; OUTLET PRESSURE: 0.3-10 BAR; CONNECTION: PTF 1/4 IN; MEDIA FOR WHICH DESIGNED: COMPRESSED AIR; MANUF P/N: B72G-2AK-QM3-RMN 565; WITH PRESSURE GAUGE AND SEMI AUTO DRAIN PART NUMBER 4233-56 RF; LONG METAL BOWL ASSY EMI AUTO DRAIN VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
656071	REGULATOR FLTR:B73G-4AK-QD1-RMN;EXCELON	REGULATOR, FILTER: TYPE: EXCELON; BODY MATERIAL: AL; INLET PRESSURE: 0.3-10 BAR; OUTLET PRESSURE: 0.3-10 BAR; CONNECTION: PTF 1/2 IN; MEDIA FOR WHICH DESIGNED: COMPRESSED AIR; MANUF P/N: B73G-4AK-QD1-RMN; ADJUSTMENT KNOB; MANUAL 1/4 TURN DRAIN; METAL WITH LIQUID LEVEL INDICATOR BOWL; RELIEVING DIAPHRAGM; ELEMENT 5 MICRO METER; WITHOUT A PRESSURE GAUGE VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
673804	REGULATOR FLTR:YT200 AN11;ALUMINIUM	REGULATOR, FILTER: TYPE: YT200 AN11; BODY MATERIAL: ALUMINIUM; INLET PRESSURE: 1.7 MPA; OUTLET PRESSURE: 0.42-0.84 MPA; CONNECTION: 1/4 NPT IN; MEDIA FOR WHICH DESIGNED: AIR; AIR FILTER REGULATOR YT200 AN11 FOR USE ON TURBINE START-UP LINE (TAL) CCI 840H WATER INJECTION CONTRL VALVES LBH10 AA002 VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
655992	REGULATOR FLTR:YT-200-A-N-0-1;AIR;AL	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: AL; INLET PRESSURE: 14.71 BAR; OUTLET PRESSURE: 0.4.2 BAR; CONNECTION: NPT 1/4 IN; MEDIA FOR WHICH DESIGNED: AIR; MANUF P/N: YT-200-A-N-0-1; MAX SUPPLY PRESSURE 17 BAR; OPERATING PRESSURE -20 TO 70 DEG C; MIN FILTERING SIZE 5 MICRON VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
634685	REGULATOR PRESS:AIR/GAS;8.6 BAR	REGULATOR, PRESSURE: TYPE: AIR/GAS; INLET PRESSURE: 8.6 BAR; OUTLET PRESSURE: 10-15 MBAR; CONNECTION: 1/8 ORIFICE IN; BODY MATERIAL: CAST IRON; REFERENCE NO: PCV-01-001; SUPPL P/N: HSR-BBFC SYN; SPRING PART NUMBER: T14398T0012 (ORANGE); AIR PRESSURE REDUCING REGULATOR VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
629350	REGULATOR PRESS:B68G-6GK-AR3-RLN	REGULATOR, PRESSURE: TYPE: AIR PRESSURE; INLET PRESSURE: 0.4-8 BAR; OUTLET PRESSURE: 0.4-8 BAR; CONNECTION: G3/4 IN-BSPP; BODY MATERIAL: ALUMINIUM; MANUF P/N: B68G-6GK-AR3-RLN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

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Material	Material description	Long Description
700974	REGULATOR PRESS:REDUCING;215 PSI;1/4 IN	REGULATOR, PRESSURE: TYPE: REDUCING; INLET PRESSURE: 215 PSI; OUTLET PRESSURE: 5-100 PSI; CONNECTION: 1/4 IN; BODY MATERIAL: ALUMINIUM; OEM P/N: 78-40; 78-40 SERIES PRESSURE REGULATOR FOR USE ON FEEDWATER PNEUMATIC ACTUATORS (LCH, LBG) SUCH AS LCH51 AA001VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
640263	REGULATOR PRESS:SPRING LOADED;50 KPA	REGULATOR, PRESSURE: TYPE: SPRING LOADED; INLET PRESSURE: 50 KPA; OUTLET PRESSURE: 20 KPA; CONNECTION: FLANGE; BODY MATERIAL: ALUMINIUM; MODEL NO: 01-03 QHJ11/12 AA601; REFERENCE NO: 086462; SUPPL P/N: FRS 503; DN40/DN150VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
660544	REGULATOR PRESS:U11;DIAPHRAGM;40 BAR	REGULATOR, PRESSURE: TYPE: DIAPHRAGM; INLET PRESSURE: 40 BAR; OUTLET PRESSURE: 8 BAR; CONNECTION: G 1/2; BODY MATERIAL: BRASS; MANUF P/N: U11; CONNECTION: INTERNAL THREADSVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
580240	REGULATOR VOLTG:E000-13300;180 VDC;6 A;3	REGULATOR, VOLTAGE: POTENTIAL: 180 VDC; CURRENT: 6 A; PHASE: 3; MANUF P/N: E000-13300; REFERENCE NO: MA330

2. **Contract Period:** 5 Years (60 months)

3. **Employer anticipates Quantity of:**

The estimated quantities the *Employer* anticipates will be required for the duration of this contract. 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 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 task order, from the *Employer*, to do so.

Material	Material description	Unit of measurement	Estimated Quantities	L/O
655993	REGULATOR FLTR:B72G-2AK-QM3-RMN 565;AIR	EA	120	TUR
656071	REGULATOR FLTR:B73G-4AK-QD1-RMN;EXCELOX	EA	18	TUR
673804	REGULATOR FLTR:YT200 AN11;ALUMINIUM	EA	18	TUR
655992	REGULATOR FLTR:YT-200-A-N-0-1;AIR;AL	EA	18	TUR
634685	REGULATOR PRESS:AIR/GAS;8.6 BAR	EA	12	TGN
629350	REGULATOR PRESS:B68G-6GK-AR3-RLN	EA	24	DST

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Material	Material description	Unit of measurement	Estimated Quantities	L/O
700974	REGULATOR PRESS:REDUCING;215 PSI;1/4 IN	EA	48	FWS
640263	REGULATOR PRESS:SPRING LOADED;50 KPA	EA	12	BAP
660544	REGULATOR PRESS:U11;DIAPHRAGM;40 BAR	EA	36	TGN
580240	REGULATOR VOLTG:E000-13300;180 VDC;6 A;3	EA	6	DEG

4. The spares and components will be supplied to the “goods received” section of the Medupi main store where they will be received by the material management section. The spares will be delivered with all of the required data books and certificates, where required.

Medupi Stores Working Times:

Monday – Thursdays: 07h00 – 16h00

Fridays: 07H00 – 12h00

5. Only once the spares have passed the Quality control checks and are booked into the system can payment be effected.
6. The Spare has to be the same in all respects when compared to the original equipment, supplied to Eskom by OEM under contract. This includes all aspects such as design, materials and material specifications, manufacturing, including manufacturing processes and acceptance testing. Where spares offered deviate from the original in any respect, it should be indicated to the *Employer*.
7. 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* cost. This includes transport and delivery.
8. The Delivery and Transport Costs (including off-loading items) must be included in the quotation.

The following packaging requirements should be adhered to:

- The Goods are to be packaged in such a manner that they can be transported and stored for an extended period of time without resulting in damage to the goods.
- This includes damage due to moisture ingress, corrosion, vibration from the power station etc.
- 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.
- It will also not be necessary to open packaging for any lifting or transport operation.

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- e) Where eyebolts are fitted to move the goods, these eyebolts should be fitted in such a way that they can be easily removed and replaced with the Purchaser's eyebolts, ensuring that the packaging stays intact.
- f) The different spares types are to be packaged separately in such a way that each type can be stored separately.
- g) Packaging and labelling of spares should ensure that the spare can be identified without opening the packaging.
- h) Where possible the packaging should ensure that parts can be positively identified through the packaging. Where this is not possible, the packaging should allow opening and closing of the packaging and still maintain the packaging integrity afterwards.
- i) Delivery packaging to have the following detail on it as a minimum (removable adhesive sticker if possible):
 - Order number,
 - A short description of the component
 - The stock number
 - Manufacturing date, where possible

4. Acceptance

This document has been seen and accepted by

Name	Designation
Hardus van Biljon	System Engineer
Katlego Ntlhoro	System Engineer
Stef-Bart Steiner	System Engineer
Emanuel Netshivhulana	System Engineer

5. Revisions

Date	Rev.	Compiler	Remarks
February 2022	1	A van Tonder	First revision

6. Development Team

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

Name	Designation
Pamela Pretorius	Manager Maintenance

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