


|   |                      |                             |
|---|----------------------|-----------------------------|
|  | <b>Specification</b> | <b>Medupi Power Station</b> |
|---|----------------------|-----------------------------|

Title: **Medupi Power Station Scope of work – Burner Fuel oil,LPG Gas,Atomized steam and purging quick close(QC) steam valves ,shut off and control valves for the burner system**

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Functional Area: **Materials Management**

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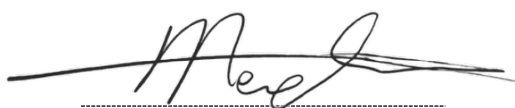
Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

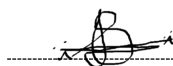
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## **1. Introduction**

The reliability and availability of the Boiler Plant, Burner system, 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 Boiler Plant, burner system amongst others includes, placing spares supply and refurbishment contracts for continuous improvement of the plant. The Quick shut off valves form part of the combustion safety equipment therefore such spares should be available at all material times to minimise plant downtime as well as non compliance to FFFR. Other than the QC valves the shutff and contro;l valves plays a vital role during pressure and flow control of the burner. This document will describe the scope of work required for this contract which includes spares supply and refurbishment.

## **2. Supporting Clauses**

### **2.1 Scope**

This document will cover the requirements for the Supply and refurbishment of a specific spare for the Boiler Plant, Burner system.

#### **2.1.1 Purpose**

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

#### **2.1.2 Applicability**

This document shall apply to requirements for the Supply and refurbishment of QC valves, shut off valves and control valves for the Medupi Boiler Plant, Burner system. The battery limit for the scope include the Quick shut off valves, shuff off valves for both steam and oil including control valves. The document will be effective from the date of authorisation.

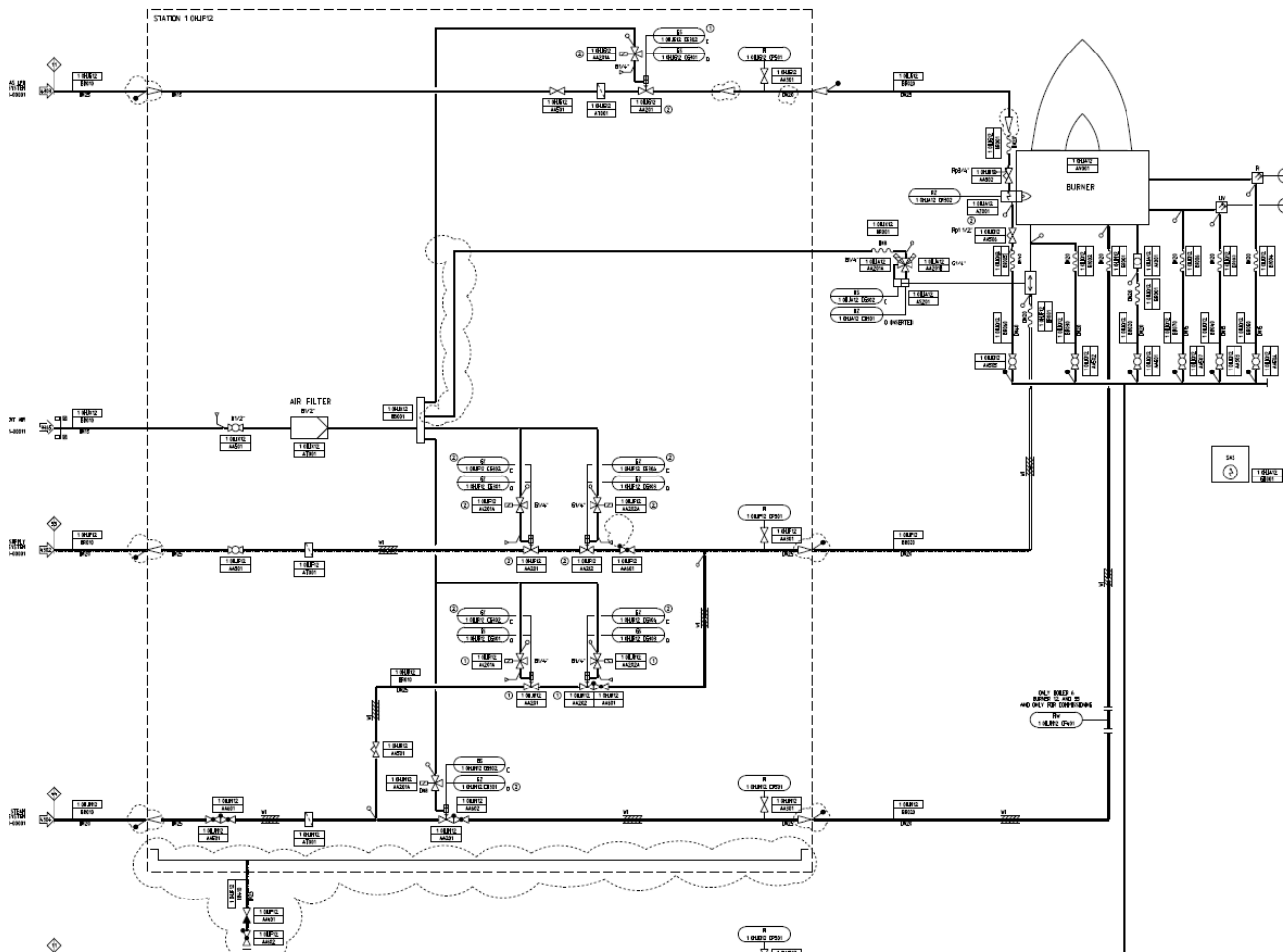
### **Burner station**

The burner station has two quick close for oil DN25 and three steam quick close DN25 and one gas valve DN15 as shown in the P&ID below.

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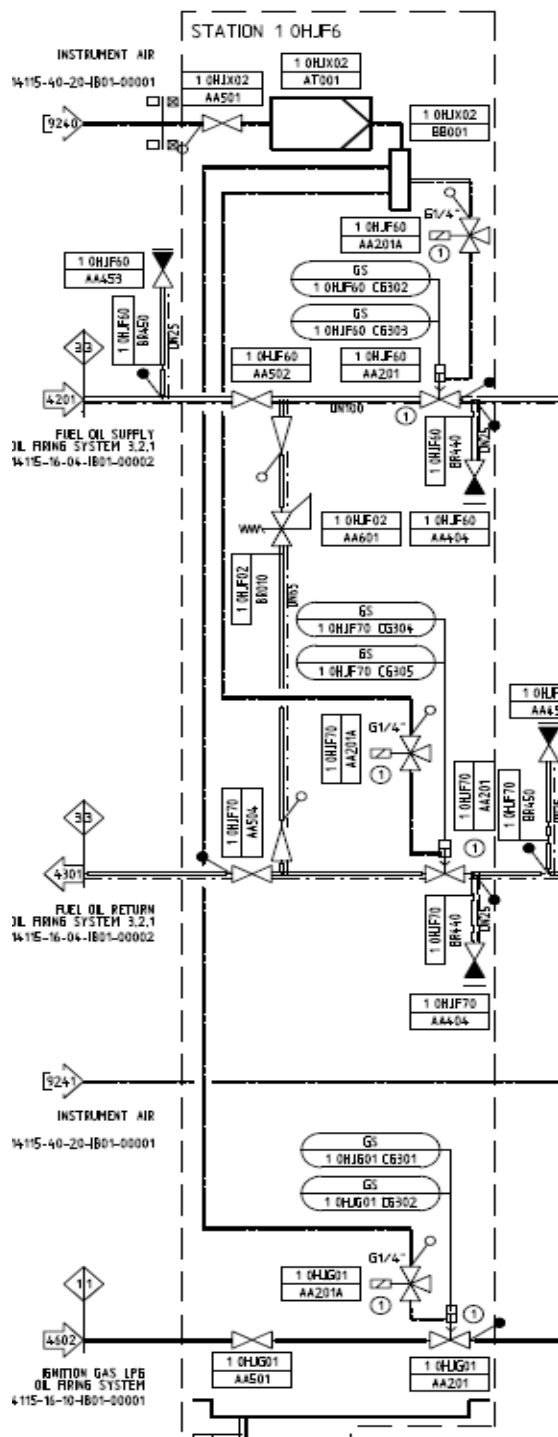
## Quick shuff off station

Quick shut off station has two oil quick shut off DN100 and one quick close for gas DN50 as shown in the P&ID below.

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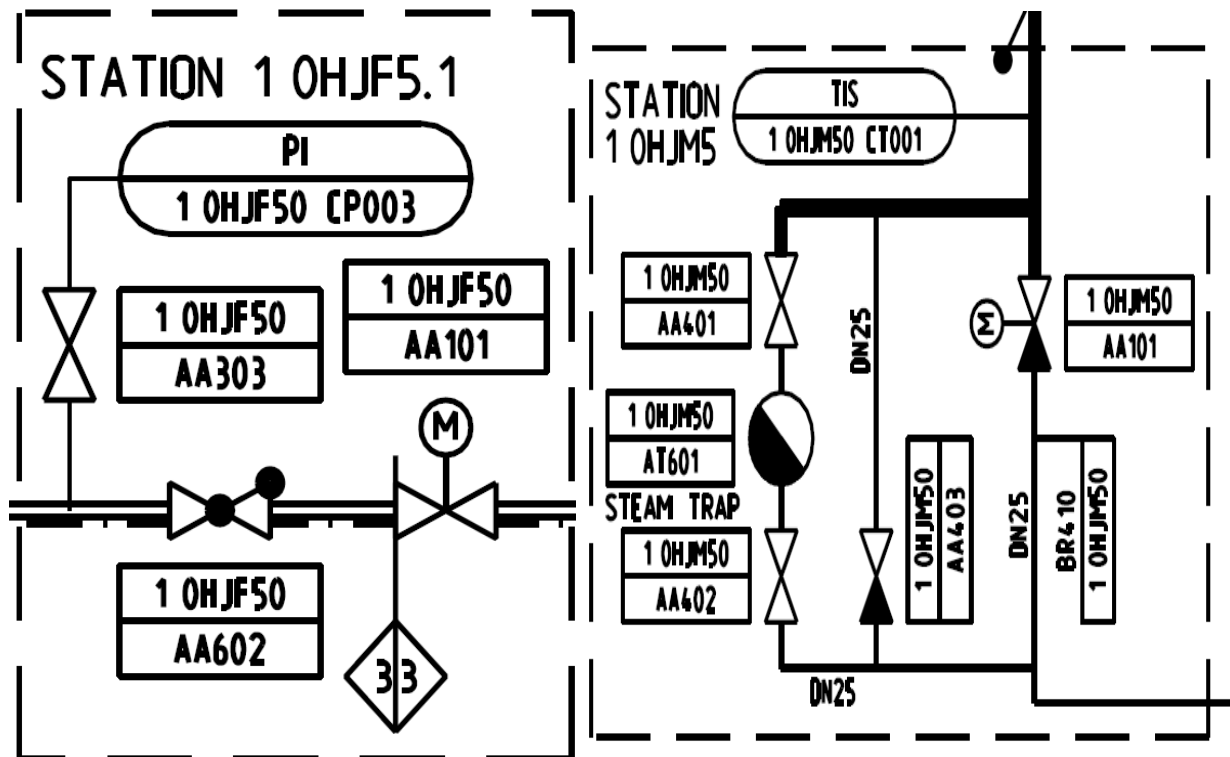
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### Fuel return and Atomizing steam drain

Fuel return has one shut off valve DN50 and atomizing drain has one valve DN25 as shown in the P&ID below.



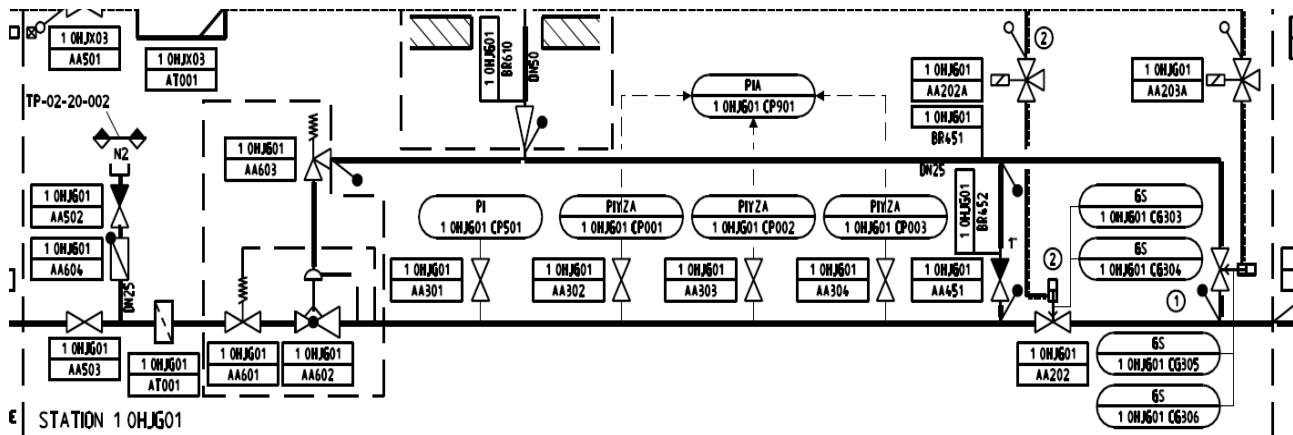
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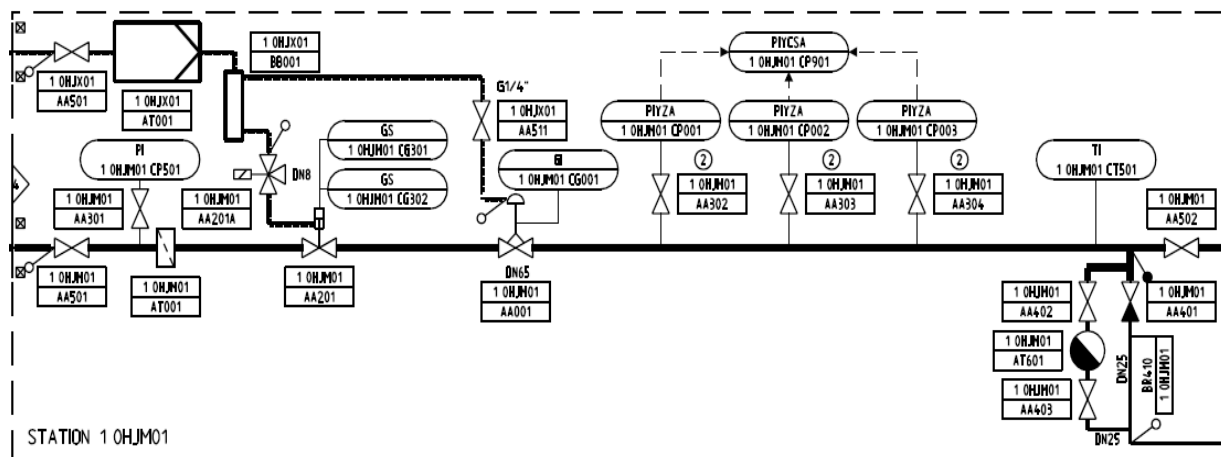
## Main LPG Gas Regulating station

The main LPG gas regulating station has one D50 and one DN25 as shown in the P&ID below.



## Main atomizing control station

The atomizing steam station has one control valve DN65 and one quick shut off valve DN50.



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## **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

## **2.3 Definitions**

| <b>Definition</b> | <b>Explanation</b>   |
|-------------------|--|
| <b>Contractor</b> | Service provider contracted for the supply and refurbishment of spares |
| <b>Employer</b>   | Eskom Medupi Power Station   |

## **2.4 Abbreviations**

| <b>Abbreviation</b> | <b>Explanation</b>                      |
|---------------------|---|
| SHE                 | Safety Health and Environmental         |
| SHEQ                | Safety Health Environmental and Quality |
| QC                  | Quick close                             |

## **2.5 Roles and Responsibilities**

### **Employer.**

- To submit a compiled scope of work for the supply of fuel oil & burner spares and refurbishment of valves with technical specification to the supplier.
- To grant access to a potential supplier who may wish to see samples of the burners spares and installed at the plant.
- Providing technical personnel who will observe when repairable items are stripped and assessed at the contractor's premises.
- To release Purchase orders from the contract to the contractor for the required burner spares and refurbishment of valves.
- Perform quality check of all spares and repaired items on delivery at the employer's premises.
- Holding regular meetings to assess the performance of the appointed contractor.

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- To issue non-compliance report to a contractor who fails to meet agreed lead times or who deliver low standard of services.

### **Contractor**

- To supply and deliver new Fuel oil and burner spares to Medupi power station as and when required, according to the specifications and technical requirements on this document.
- Not to make any early delivery of fuel oil and burner spares except when is at eskom's request.
- To notify the employer of any fuel & oil burner spares that are / to be discontinued and offer alternatives thereof.
- To inform the employer about any damage to the spares that occurred during the loading or ofloading of the material.
- To collect from the employer, the material items that did not pass quality check or were reject due to incorrect specification.
- The Contractor will be issued a "strip-and-quote" order for the valves requiring refurbishment or repairs.
- The Contractor will be required to collect the valves from Medupi Power Station for assessment and also for delivery after completion of works
- To invite eskom's technical personnel to come to observe the strip & assess process of the valves booked for repair.
- A quote as well as full assessment report (failure report) shall be submitted to the Employer within 10 working days after the issuing of the order for "strip-and-quote"
- The assessment/failure report should include proof (photos) of all components requiring replacement as well as any additional requirements, to enable the valves to be restored to their original conditions.
- The supplier will be issued with an order to repair Ignitors only after a quotation, assessment report & QCP has been accepted by the employer.

### **Stripping**

- Upon stripping and assessing the valve, the contractor shall develop a Method Statement and QCP, both of which will be presented to Eskom for review and approval.
- Intervention points must be indicated in the QCP, reviewed and or revised by Eskom. Once finalised, the QCP and Method Statement will be approved by Eskom.
- All intervention points as agreed and stipulated in the QCPs shall be adhered to.

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### **Inspections and Failure Report**

- The valves will be stripped carefully, and each component shall be inspected/tested/analysed for defect using the latest acceptable technology and methodology.and eskom rep should be contacted during stripping.
- The supplier shall invite Eskom to witness the refurbishment according to the intervention points; to take Eskom through their workshop processes through which the valves will follow during refurbishment process.
- A detailed failure reported shall be compiled by the supplier and presented to Eskom either via email or during intervention visit arranged in time. This will include photos, measurements, crack reports, surface defects, etc. which will comprehensively highlight the extent of damage of the valves.
- The scope of repair and spares to be replaced will be discussed with and accepted by Eskom before the actual repair commences.

### **Repair**

- If during inspections, it become evident that the valve is beyond repair, or the cost of repair is such that it would be viable to procure a new valve than to repair; then the supplier shall communicate such evidence in writing with supporting failure reports.
- The supplier shall use reputable spares and acceptable engineering methods to restore the valves to its original state.
- If applicable the supplier will remove old and apply new corrosion resistant coating on the valve after assembly. The spec of this coating must be shared with Eskom for review and approval.
- The process of repairs must adhere to the QCP requirements and intervention points must be adhered to at all levels.

## **2.6 Process for Monitoring**

N/A

## **2.7 Related/Supporting Documents**

N/A

## **3. Scope of Work**

The reliability and availability of the Boiler Plant, Burner system 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 Boiler Plant, Burner system amongst others includes, placing spares supply and refurbishment contracts for continuous involvement on the plant on a daily basis.

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### 3.1 Supply of Spares

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

#### 1. Description of Items to be supplied and refurbished.

| SAP No | Material Purchase Order Description  |
|--------|--|
| 715375 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN25,PN40 MM; DESIGN RATING: 3500 KPA; TEMPERATURE RATING: 160 DEG C; FACE TO FACE LENGTH: 160 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: P250GH; STYLE: QUICK CLOSING FOR OIL; TRIM: VALVE CONE GASKET PTFE, VALVE CONE AND INNERPARTS ARE MADE FROM 1.4541.STAINLESS STEEL BELLOW 1.4541 WITH ADDITIONAL PACKING; SPECIFICATION: PED 97/23/EC/DIN EN 264/DIN EN 161; SOFTGOODS: VALVE CONE GASKET PTFE, VALVE CONE AND INNERPARTS ARE MADE FROM 1.4541.STAINLESS STEEL BELLOW 1.4541 WITH ADDITIONAL PACKING; SPECIAL FEATURES: KVF; DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN |
| 715350 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN15,PN16 MM; DESIGN RATING: 1600 KPA; TEMPERATURE RATING: 900 DEG C; FACE TO FACE LENGTH: 130 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: P250GH; STYLE: QUICK CLOSING FOR GAS; TRIM: VALVE CONE INNERPARTS :1.4021,VALVE CONE GASKET PTFE,STAINLESS STEEL BELLOW 1.4541; SPECIFICATION: PED 97/23/EC; SOFTGOODS: VALVE CONE INNERPARTS :1.4021, VALVE CONE GASKET PTFE, STAINLESS STEEL BELLOW 1.4541; SPECIAL FEATURES: KVF(GAS); DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN  |
| 715337 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN50,PN16 MM; DESIGN RATING: 1600 KPA; TEMPERATURE RATING: 900 DEG C; FACE TO FACE LENGTH: 230 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: P250GH; STYLE: QUICK CLOSING FOR GAS; TRIM: VALVE CONE INNERPARTS :1.4021,VALVE CONE GASKET PTFE,STAINLESS STEEL BELLOW 1.4541; GRADE: 1.0619; SPECIFICATION: PED 97/23/EC; SOFTGOODS: VALVE CONE INNERPARTS :1.4021, VALVE CONE GASKET PTFE, STAINLESS STEEL BELLOW 1.4541; SPECIAL FEATURES: KVF(GAS); DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN   |
| 715351 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN100,PN40 MM; DESIGN RATING: 4000 KPA; TEMPERATURE RATING: 1800 DEG C; FACE TO FACE LENGTH: 350 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: GS-C-25; STYLE: QUICK CLOSING FOR OIL; TRIM: THE VALVE CONE AND INNERPARTS 1.4021,VALVE CONE GASKET PTFE,AUTOMATIC SEALING SET PTFE-GRAPHITE WITH ADDITIONAL PACKING; GRADE: 1.0619; SPECIFICATION: PED 97/23/EC; SOFTGOODS: THE VALVE CONE AND INNERPARTS  |

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|        |  |
|--------|--|
|        | 1.4021,VALVE CONE GASKET PTFE,AUTOMATIC SEALING SET PTFE-GRAPHITE WITH ADDITIONAL PACKING; SPECIAL FEATURES: KVV(OIL); DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN  |
| 624133 | VALVE, GLOBE: VALVE SIZE: 65 MM; DESIGN PRESSURE: 31 BAR; DESIGN TEMPERATURE: 350 DEG C; FACE TO FACE LENGTH: 290 MM; OPERATED: PNEUMATIC WITH ACTUATOR ARCA MF III-20-Ö CONNECTION: FLANGE; BODY MATERIAL: CU 7CRMO5-5; TRIM: SEALS; SPECIFICATION: EN FORM B1; DESIGN RATING: 40 BAR; TEMPERATURE RATING: 350 DEG C; SUPPL P/N: 812.8C3-L1   |
| 581722 | VALVE, GLOBE: VALVE SIZE: DN 25; FACE TO FACE LENGTH: 160 MM; OPERATED: MOTORIZED; CONNECTION: WELD; BODY MATERIAL: CI; APPLICATION: EJECTOR MOTIVE STEAM LINE; SPECIFICATION: ANSI B16-34; DESIGN RATING: 31 BAR; TEMPERATURE RATING: 350 DEG C; MANUF P/N: 200AJ21.2   |
| 715369 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN25,PN40 MM; DESIGN RATING: 3100 KPA; TEMPERATURE RATING: 350 DEG C; FACE TO FACE LENGTH: 160 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: 13CRMO44; STYLE: QUICK CLOSING FOR STEAM; TRIM: VALVE CONE GASKET NIRO, VALVE CONE AND INNERPARTS ARE MADE FROM 1.4021.STAINLESS STEEL BELLOW 1.4541 WITH ADDITIONAL PACKING; GRADE: 1.7335; SPECIFICATION: PED 97/23/EC; SOFTGOODS: VALVE CONE GASKET NIRO, VALVE CONE AND INNERPARTS ARE MADE FROM 1.4021.STAINLESS STEEL BELLOW 1.4541 WITH ADDITIONAL PACKING; SPECIAL FEATURES: KVF (STEAM); DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN; QC VALVE WITH A PISTON DIAMETER OF 100MM/PNEUMATICALLY OPERATED QUICK CLOSING VALVE |
| 715352 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN50,PN40 MM; DESIGN RATING: 32 BAR; TEMPERATURE RATING: 1500 DEG C; FACE TO FACE LENGTH: 230 MM; CONNECTION: FLANGE; OPERATED: ELECTRICAL ACTUATOR; BODY MATERIAL: GP240GH+N; STYLE: KVS 25GLP; TRIM: THE PLUG IS MADE FROM 1.4021+QT,SEAT RING 1.4021+QT,BUSHING PTFE,GASKET GRAPHIT (CRNI LAMINATED WITH GRAPHITE); GRADE: 1.0619+N; SPECIFICATION: PED 97/23/EC; SOFTGOODS: GRAPHIT (CRNI LAMINATED WITH GRAPHITE); SPECIAL FEATURES: STEVI 440; DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN  |

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|        |  |
|--------|--|
| 715373 | VALVE: TYPE: PNEUMATIC; VALVE SIZE: DN80,PN40 MM; DESIGN RATING: 2000 KPA; TEMPERATURE RATING: 300 DEG C; FACE TO FACE LENGTH: 310 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: GS-17CRMO44; STYLE: QUICK CLOSING FOR STEAM; TRIM: VALVE CONE AND INNERPARTS 1.4021,VALVE CONE GASKET NIRO, STAINLESS STEEL BELLOW 1.4541; SPECIFICATION: PED 97/23/EC; SPECIAL FEATURES: KVL/R; SUPPL P/N: C240461008  |
| 715347 | VALVE: TYPE: PNUEMATIC; VALVE SIZE: DN40 MM; DESIGN RATING: 32 BAR; TEMPERATURE RATING: 150 DEG C; FACE TO FACE LENGTH: 200 MM; CONNECTION: FLANGE; OPERATED: PNEUMATICALLY; BODY MATERIAL: GP240GH+N; STYLE: SPRING RANGE 1.5-2.5; TRIM: THE SEAT RING, GUIDE BUSHING AND PLUG IS MADE FROM 1.4021+QT, SPRING IS MADE FROM 1.4310; GRADE: 1.0619+N; SPECIFICATION: PED 97/23/EC; SOFTGOODS: GRAPHIT (CRNI LAMINATED WITH GRAPHITE); SPECIAL FEATURES: STEVI 440; DRAWING NO: B114116-16-99-IB07-00001-REV REV UNKNOWN |

**Contract Period:**

5 year Contract

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## 2. 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.

### Spares supply quantities

| SAP No | Description  | Valve type           | Nominal Diameter | PN    | Deg C | MPa  | Material   | QTY |
|--------|--|----------------------|------------------|-------|-------|------|------------|-----|
| 715375 | QUICK STOP VALVE BURNER                                    | Quick Shut Off Valve | DN25             | PN40  | 150   | 3,2  | P250GH     | 80  |
| 715351 | QUICK STOP VALVE FUEL OIL SUPPLY LINE                      | Quick Shut Off Valve | DN100            | PN40  | 150   | 3,2  | GP240GH    | 15  |
| 715337 | QUICK STOP VALVE LPG SUPPLY LINE                           | Quick Shut Off Valve | DN50             | PN16  | 50    | 0,15 | P250GH     | 10  |
| 715350 | QUICK CLOSING VALVE LPG BURNER                             | Quick Shut Off Valve | DN15             | PN 25 | 50    | 0,15 | P250GH     | 40  |
| 624133 | PRESSURE CONTROL VALVE ATOMIZING STEAM SUPPLY BURNER LEVEL | Control Valve        | DN65             | PN40  | 350   | 3,1  | G17CrMo5-5 | 10  |

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|        |   |                         |      |      |     |     |            |     |
|--------|---|-------------------------|------|------|-----|-----|------------|-----|
| 581722 | STOP VALVE<br>WARM UP<br>ATOMIZING<br>STEAM BURNER<br>LEVEL 1 | Shut-Off Valve          | DN25 | PN63 | 350 | 3,1 | C22.8      | 10  |
| 715369 | QUICK STOP<br>VALVE<br>ATOMIZING<br>STEAM BURNER              | Quick Shut Off<br>Valve | DN25 | PN40 | 350 | 3,1 | P250GH     | 100 |
| 715373 | QUICK STOP<br>VALVE<br>ATOMIZING<br>STEAM BURNER<br>LEVEL     | Quick Shut Off<br>Valve | DN80 | PN40 | 350 | 3,1 | G17CrMo5-5 | 10  |
| 715352 | STOP VALVE<br>FUEL OIL<br>BURNER LEVEL                        | Shut-Off Valve          | DN50 | PN40 | 150 | 3,2 | GP240GH+N  | 10  |

The maintenance of the burners quick close,shut off and control valves be done every outage/3 years ( During IR and MGO outage). Medupi has 5 rows of burners with each row consisting of 6 burners.Medupi has a total of 30 Burners per boiler and each burner has a dedicated burner station .The refurbishment will be done as per approved assessment report by Eskom Engineer.

| SAP No | Model   | Nominal<br>Diameter | PN   | Deg<br>C | MP<br>a | Material | QTY | Maintenance Scope  |
|--------|---------|---------------------|------|----------|---------|----------|-----|--|
| 715375 | Flanged | DN25                | PN40 | 150      | 3,2     | P250GH   | 360 | Check for switching<br>operataion,Check of<br>spindle sealing,check of<br>piston sealing,retorque<br>housing, check for inner<br>tightness |
| 715351 | Flanged | DN100               | PN40 | 150      | 3,2     | GP240GH  | 15  | Check for switching<br>operataion,Check of<br>spindle sealing,check of<br>piston sealing,retorque<br>housing, check for inner<br>tightness |

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|        |         |      |       |     |      |            |     |   |
|--------|---------|------|-------|-----|------|------------|-----|---|
| 715337 | Flanged | DN50 | PN16  | 50  | 0,15 | P250GH     | 10  | Check for switching operataion,vhevk of spindle sealing,check of piston sealing,retorque housing, check for inner tightness                                       |
| 715350 | Flanged | DN15 | PN 25 | 50  | 0,15 | P250GH     | 180 | Check for switching operataion,vhevk of spindle sealing,check of piston sealing,retorque housing, check for inner tightness                                       |
| 624133 | Flanged | DN65 | PN40  | 350 | 3,1  | G17CrMo5-5 | 10  | Check of spindle sealing/leakage<br>Check piston sealing<br>Retorque of the housing cover<br>Check of inner tightness<br>Replace gaskets and O rings if necessary |
| 581772 | Welded  | DN25 | PN63  | 350 | 3,1  | C22.8      | 30  | test the packing for leaks ,replacement of steam sealing  |
| 715347 | Flanged | DN40 | PN40  | 150 | 3,2  | GP240GH+N  | 30  | Check for switching operataion,Check of spindle sealing,check of piston sealing,retorque housing, check for inner tightness                                       |
| 715369 | Flanged | DN25 | PN40  | 350 | 3,1  | P250GH     | 540 | Check for switching operataion,vhevk of spindle sealing,check of piston sealing,retorque housing, check for inner tightness                                       |
| 715373 | Flanged | DN80 | PN40  | 350 | 3,1  | G17CrMo5-5 | 10  | Check for switching operataion,vhevk of spindle sealing,check of piston sealing,retorque housing, check for inner tightness                                       |
| 715352 | Flanged | DN50 | PN40  | 150 | 3,2  | GP240GH+N  | 10  | test the packing for leaks ,replacement of steam sealing  |

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- Medupi Stores Working Times:**
- |                     |               |
|---------------------|---------------|
| Monday – Thursdays: | 07h00 – 16h00 |
| Fridays:            | 07H00 – 12h00 |

- The following packaging requirements should be adhered to:

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- 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
  - Material certificate according to EN 10204/3.1
  - Manufacturing date, where possible

#### **4. Acceptance**

This document has been seen and accepted by

| <b>Name</b>        | <b>Designation</b>              |
|--------------------|---------------------------------|
| Phuti Mashita      | Snr Supervisor Tech Maintenance |
| Lindelani Mphohoni | Snr Technician Maintenance      |

#### **5. Revisions**

| <b>Date</b>    | <b>Rev.</b> | <b>Compiler</b>    | <b>Remarks</b> |
|----------------|-------------|--------------------|----------------|
| September 2024 | 0           | Annette van Tonder | Draft          |

#### **6. Development Team**

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

| <b>Name</b>          | <b>Designation</b>              |
|----------------------|---------------------------------|
| Chrisprior Madonsela | System Engineer                 |
| Thapedi Ramokgoname  | Assistant Officer Refurbishment |
| Chuene Boshomane     | Assistant Officer materials     |

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