

| | | |
|---|---------------|------------------|
|  Eskom | Report | GROOTVLEI |
|---|---------------|------------------|

Title: **Scope Of Work for The Supply of Mobile Diesel Pumps**

Unique Identifier:

GVL/0674

Alternative Reference Number:

N/A

Area of Applicability:

Grootvlei Power Station

Functional Area:

Engineering

Revision:

1

Total Pages:

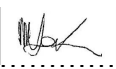
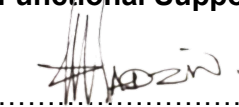
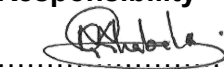
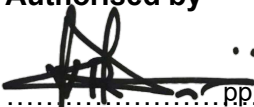
8

Next Review Date:

As Required

Disclosure Classification:

CONTROLLED DISCLOSURE

| Compiled by | Functional Support | Functional Responsibility | Authorised by |
|---|---|--|---|
|  |  |  |  |
| V Mutenda | M Madzivhandila | M Mkhabela | T Montja |
| System Engineer | Auxiliary Maintenance Manager | Auxiliary Engineering Manager | Power Station Engineering Manager |
| Date: 11/09/2025 | Date: 11/09/2025 | Date: 11/09/2025 | Date: 11/09/2025 |

CONTROLLED DISCLOSURE

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the system. No part of this document may be reproduced in any manner or form by third parties without the written consent of Eskom Holdings SOC Ltd, © copyright Eskom Holdings SOC Ltd, Reg No 2002/015527/30

CONTENTS

| | Page |
|---|----------|
| 1. INTRODUCTION | 3 |
| 2. SUPPORTING CLAUSES | 3 |
| 2.1 SCOPE | 3 |
| 2.1.1 Purpose | 3 |
| 2.1.2 Applicability | 3 |
| 2.2 NORMATIVE/INFORMATIVE REFERENCES | 3 |
| 2.2.1 Normative | 3 |
| 2.2.2 Informative | 3 |
| 2.3 DEFINITIONS | 4 |
| 2.4 CLASSIFICATION | 4 |
| 2.2 ABBREVIATIONS & ACRONYMS | 4 |
| 2.5 ROLES AND RESPONSIBILITIES | 4 |
| 2.5.1 Auxiliary Plant System Engineer | 4 |
| 2.5.2 Auxiliary Plant Maintenance Technician/Supervisor | 5 |
| 2.5.3 Auxiliary Plant Engineering Manager | 5 |
| 2.5.4 Auxiliary Plant Maintenance Manager | 5 |
| 2.5.5 Eskom Quality Control Technician | 6 |
| 2.5.6 Service Provider | 6 |
| 2.6 PROCESS FOR MONITORING | 6 |
| 2.7 RELATED/SUPPORTING DOCUMENTS | 6 |
| 3. SCOPE OF WORK | 6 |
| 3.1. SUPPLY & DELIVERY OF DIESEL PUMPS | 6 |
| 3.2. TECHNICAL SPECIFICATIONS | 7 |
| 4. AUTHORISATION | 8 |
| 5. REVISIONS | 8 |
| 6. DEVELOPMENT TEAM | 8 |
| 7. ACKNOWLEDGEMENTS | 8 |

CONTROLLED DISCLOSURE

Appendix AWhen downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the system. No part of this document may be reproduced in any manner or form by third parties without the written consent of Eskom Holdings SOC Ltd, © copyright Eskom Holdings SOC Ltd, Reg No 2002/015527/30

1. INTRODUCTION

Grootvlei PS wants to purchase 7 diesel pumps so that there are enough pumps for draining activities that usually happen around the common plant area during emergencies. Diesel pumps are used on some of the following plants:

- Ash pump sumps and pits
- Ash plant ashing sluice ways
- Ash plant cross over valves
- Pollution dams (East Terrace, South Terrace, and Coal Stockyard dams)
- Ash Water Return and Ash Dams

The purpose for purchasing the 7 diesel pumps is to ensure that Grootvlei has enough spare diesel pumps and plant redundancy with regards to dewatering and cleaning activities. To get a supply of the 7 diesel pumps a normal procurement process must be followed to select a suitable supplier as per the SOW specification and the technical evaluation.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document covers the technical scope of work for the procurement of the new 7 diesel pumps. Which includes the specification of the mobile diesel pumps.

2.1.1 Purpose

The purpose of this document is to give a detailed scope of work, technical specifications, and requirements for the purpose of procuring 7 new diesel pumps.

2.1.2 Applicability

This document is applicable to Grootvlei Power Station.

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

N/A

2.2.2 Informative

[1] N/A

CONTROLLED DISCLOSURE

2.3 DEFINITIONS

| Definition | Description |
|---------------------|---|
| Contractor/Tenderer | Refers to the company/supplier appointed to perform the works |
| Employer | Refers to Eskom Holdings State Owned Company |
| The Client | The end user will be Eskom who will be represented by Grootvlei Power Station throughout the duration of the works. |

2.4 CLASSIFICATION

- a. **Controlled disclosure:** controlled disclosure to external parties (either enforced by law, or discretionary).

2.2 ABBREVIATIONS & ACRONYMS

| Abbreviation & Acronym | Description |
|------------------------|---|
| ECSA | Engineering Council of South Africa |
| NEMA | National Environmental Management Act |
| NTCSA | National Transmission Company of South Africa |
| OHS | Occupational Health and Safety (OHS) Act |
| SOW | Scope of Works |
| PS | Power Station |
| SCCC | Site Change Control Committee |
| SRD | Stakeholders Requirements Definition |

2.5 ROLES AND RESPONSIBILITIES

2.5.1 Auxiliary Plant System Engineer

- Develop and maintain the maintenance and design base of the common plant equipment's
- Review and authorise all QCPs for all maintenance activities specified in this SOW.
- Review this SOW for effectiveness.
- Provide technical quality assurance at every stage of the supply process of the SOW.
- Maintain detailed logs and reports of all maintenance activities executed in this SOW.
- Seek advice on complex aspects of this SOW from Eskom Corporate Specialists or other Subject Matter Experts within Eskom.
- Analyse the performance (post repair) of the Diesel pumps

CONTROLLED DISCLOSURE

- Review all PM task orders, and the Maintenance Strategy related to Diesel pumps to determine their effectiveness and current applicability.
- Establish and/or review the Operating Technical Specifications (OTS) related to the mobile diesel pumps
- Monitor the reliability, maintainability and availability of the mobile diesel pumps and take the action necessary to bring these parameters back to specification where deviations are noted.
- Conduct the quality control checks after goods and services are received by Eskom from the Service Provider.

2.5.2 Auxiliary Plant Maintenance Technician/Supervisor

- Withdraw the pumps from stores for installation on the plant.
- Ensure that all pumps installed have QCP's, and Eskom Quality control personnel and System Engineer is called out for witness points.
- In consultation with the system engineer, raise non-conformances where it is deemed necessary.

2.5.3 Auxiliary Plant Engineering Manager

- Is functionally accountable for this SOW.
- Ensure that the System Engineer has the required competence and other applicable resources necessary to execute their responsibilities related to this SOW.
- Be accountable for the Eskom Auxiliary Plant Engineering function and its duties as it pertains to this SOW.

2.5.4 Auxiliary Plant Maintenance Manager

- Is the nominated Service Manager for all Purchase Orders (PO) or Task Orders (TO) placed for the SOW.
- Notify all relevant Eskom stakeholders of the requirements of the Service Provider, including the request by the service Provider for Eskom's presence for witness points and necessary hold points on the QCPs and their presence at meetings called by the Service Provider.
- Challenge costs where it is deemed necessary.
- Release purchase orders without undue delays for work to be executed by the Service Provider.
- Instruct the Service Provider as necessary for them to effectively execute the SOW.
- Effectively manage non-conformances by the Service Provider.

CONTROLLED DISCLOSURE

2.5.5 Eskom Quality Control Technician

- Review and approve all QCPs related to this SOW.
- Detail all intervention points needed from Eskom on the QCP.
- Provide quality control at all points of this SOW.
- Attend and contribute to all meetings with the Service Provider.

2.5.6 Service Provider

- Execute the SOW with due regard for client safety, health, environmental and quality requirements specified herein.
- Comply with all Eskom Life-Saving Rules and other safety requirements referenced herein.
- Familiarise themselves with all technical requirements referenced in this document.
- Communicate all risks and mitigations associated with activities in this SOW as they become apparent.
- The Service Provider and their sub-suppliers are required to have suitable premises with the required tools, and equipment to be able to conduct the SOW. Eskom reserves the right to inspect the workshop premises at any time during the duration of the services/contract (with prior notice of at least 24 hours) to ensure that it is suitable and is kept up to standard. The Service Provider shall acknowledge receipt of request and confirm availability.
- Never divulge information that is regarded as confidential or privileged or which may be regarded as bringing disrepute or perceived to potentially bring disrepute to the Client, to third parties under any circumstances.
- Obey all laws pertaining to the National Key Points Act. It is expressly forbidden to take photographs of anything while inside the Client premises, unless prior permission has been granted in writing to do so

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. SCOPE OF WORK**3.1. SUPPLY & DELIVERY OF DIESEL PUMPS**

The supplier must be able to supply 7 new mobile diesel pumps, see section 3.2. for detailed technical specifications of the pumps required. The following is applicable to the supply of a new pump wherein:

CONTROLLED DISCLOSURE

- 3.1.1. The Supplier shall ensure that the mobile diesel pumps are supplied with a brochure, general arrangement drawings, installation, operating and maintenance manuals, applicable certificates, and other applicable documents in a form of both hardcopy and electronically.
- 3.1.2. Performance and test certificates to be provided when delivering the mobile diesel pumps. The supplier must be able to perform performance test, either at the suppliers premisses or sub-supplied services, either of the two.
- 3.1.3. All manufactured pumps and accessories must be stored indoors, in a storage area that is ventilated properly. The storage area must be clean, dry and with no ingress of dust. Eskom will not accept/grant permission to deliver goods which stored in storage areas not conforming to the above requirements. The Client reserves a right to do inspection on the storage area of the stored equipment.
- 3.1.4. The supplier shall give a minimum guarantee one (2) years after the pump is put in service for mechanical defects against defects or poor design. The warranty must cover both the pumps and the engine.
- 3.1.5. The Supplier must provide a full technical description of all the spares supplied with the mobile diesel pumps.
- 3.1.6. The mobile diesel pumps must be transported to the station with care of damage.

3.2. TECHNICAL SPECIFICATIONS

- 3.2.1. The supplier must supply mobile diesel pumps of the specifications as per table 1 below:

Table 1

| Description | Spec description values | Unit of measure |
|---------------------------|--|---------------------------|
| Capacity | 250-400 | Cubic meters per hour |
| Total head | 40-75 | Meters |
| Pump internals | 1. (wear rings, shafts, impeller, lock multishift sleeve keyways etc) to be made from CD4MCu stainless steel. (Submit the material data sheet) | 1. CD4MCu stainless steel |
| Fuel tank size range | 250-450 | Litres |
| Coolant type | Air cooled diesel engine. | Air cooled diesel engine. |
| Suction lift requirements | Self-priming/assisted priming (Maximum Static lift 6-10m) | meters |
| Solids handing capacity | (15-30mm) | millimetres |
| Connections | 6"x6" (1500mm x 150 mm) | millimetres |

CONTROLLED DISCLOSURE

| | | |
|--|--|--|
| | | |
|--|--|--|

4. AUTHORISATION

This document has been seen and accepted by:

| Name & Surname | Designation |
|-------------------|-------------------------------|
| Menelisi Mkhabela | Auxiliary Engineering Manager |
| Thabo Montja | Engineering Manager |
| Vusani Mutenda | System Engineer |

5. REVISIONS

| Date | Rev. | Compiler | Remarks |
|----------|------|------------|---|
| Aug 2025 | 1 | V. Mutenda | First draft of scope of work for the supply and delivery on 7 mobile diesel pumps |

6. DEVELOPMENT TEAM

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

- Pitso Letsoenyo
- Vusani Mutenda

7. ACKNOWLEDGEMENTS

- Pitso Letsoenyo

CONTROLLED DISCLOSURE

Appendix AWhen downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the system. No part of this document may be reproduced in any manner or form by third parties without the written consent of Eskom Holdings SOC Ltd, © copyright Eskom Holdings SOC Ltd, Reg No 2002/015527/30