Eskom National Transmission Company South Africa ™	**Scope of Work**	**NTCSA/Business Unit/ Department/Section** Apollo and CS

Title: **Scope of Work for Service, Maintenance & Repairs of Diesel Engines for Apollo Converter Station**

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Compiled by	**Functional Responsibility**	**Authorised by**
Mbalenhle Chamane	**Moses Titus**	**Zanele Sethusa**
Maintenance Snr Engineer	**Maintenance Chief Engineer**	**Maintenance Manager**
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1. Introduction

The Cahora Bassa HVDC scheme, with rated capacity of 1800 MW, is a key asset in the Eskom power system. Apollo Converter Station (CS) has Diesel Engines integrated into the Scheme.

The diesel engine is installed at Apollo Converter Station in Olifantsfontein where it forms part of the Fire Protection system as a standby unit for water supply during the occurrence of a fire incident.

The diesel engine is installed in Pietersburg Repeater Station (in Polokwane); where it is used as back-up supply system for the control and telecommunications system installed on site. The Pietersburg Repeater Station Diesel engine is utilized more regularly as the station needs its support during Load-shedding.

Annual maintenance and servicing of the Diesel engines is a required to ensure that the equipment are functioning and to maintain efficient performance.

Like any other equipment, Diesel engines can fail and therefore repairs would be required to restore them to their functioning state. The service provider should be able to diagnose/ do fault finding when required and thus provide necessary repairs.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose document is to stipulate the details of the Scope of work for the Service, Maintenance & Repairs of the Diesel Engines for Apollo Converter Station.

2.1.2 Applicability

This document shall apply to Apollo Converter Station under the Apollo and CS business unit.

2.1.3 Effective date

February 2026

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] None

2.2.2 Informative

[2] ISO 9001 Quality Management Systems

[3] Guide to Integrated Risk Management, ©Eskom Ltd, 2009.

[4] Act No. 85, Occupational Health and Safety Act, 1993.

2.3 Definitions

2.3.1 General

Definition	Description
Preventative Maintenance	The maintenance carried out at predetermined intervals or corresponding to prescribed criteria (such as measured condition or number of operations) and intended to reduce the probability of failure or the performance degradation of an item.

2.4 Abbreviations

Abbreviation	Explanation
Apollo CS	Apollo Converter Station
Apollo & CS	Apollo and Centralised Services
Ltd	Limited
HVDC	High Voltage Direct Current
SoW	Scope of work
CV	Curriculum Vitae
ORHVS	Operating Regulations for High Voltage Systems

2.5 Roles and Responsibilities

Appointed member(s) of the Grid shall detail the scope of work to be executed.

2.6 Process for Monitoring

Not Applicable

2.7 Related/Supporting Documents

Not Applicable

3. Scope of Work for Service, Maintenance & Repairs of Diesel Engines for Apollo Converter Station

3.1 Project overview

This project includes the Service, Maintenance & Repairs of Diesel Engines for Apollo Converter Station. The scope of work details the expectations between the Employer and the appointed Contractor during the duration of this project.

3.2 Objectives

The Contractor is primarily required to: -

- Provide annual maintenance and servicing of the Diesel engines for a period of 5 years
- Diagnose/ do fault finding and repairs of diesel engines as and when required (during the 5-year period)

In addition, the Contractor: -

- Should be accredited to service and repair the said engines

(Should provide all necessary tools and equipment required to provide service and or repairs. Supply all spares and material required for services and repairs).

Equipment that will be affected include:

Substation	Generator size	Fuel Type	Fuel tank Capacity	Connected to Substation 380V AC Board	Maintenance Required	Manufactured date	Generator Type/Model
Apolo Converter Station	167 kW	Diesel	200 litres	No	Yearly PMT / Service	1989	CUMMINS NT 855 G5
Pietersburg Repeater station	20kVA	Diesel	500 litres	No	Yearly PMT / Service	2007	Deutz F4L 912

3.3 Project Execution:

Site Survey:

- Inspection and preparation of designated areas upon commencement of maintenance activity (s).
- Coordination would be made with other ongoing projects to minimize disruptions.

Quality Assurance:

- Adherence to industry standards and best practices must be maintained throughout the project.
- Quality checks and inspections will be conducted to ensure the reliability and effectiveness of the maintenance and repairs conducted.

Safety and Compliance:

- The Contractor shall control his activities and processes in accordance with the - Occupational Health & Safety Act No. 85 of 1993 and Eskom's Construction Safety, Health and Environmental Management 32-136, as amended.
- The Contractor is required to ensure that all goods, services or works supplied in terms of the tender/contract/order conform to all applicable environment legislation, Authorisations, EPC32-727: Eskom SHEQ Policy, ST32-726: SHE Requirements for the Eskom Commercial Process and Project Specific Environmental Management Plan (EMP).
- Compliance with relevant industry standards and specifications.

Outputs:

- Maintenance reports to be submitted upon completion of work.
- Reports highlighting all repairs completed and tests conducted to be submitted upon completion of work.

3.4 Conclusion:

This Scope of Work outlines the key components and activities required for the successful Service, Maintenance & Repairs of Diesel Engines for Apollo Converter Station. Regular communication and collaboration between Maintenance (HV Plant) and the Contractor will be maintained to ensure the successful completion of activities.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
M Chamane	Maintenance Snr Engineer – Apollo CS
M Sibiya	Maintenance Snr Engineer – Apollo CS
T Mpe	Maintenance Engineer – Apollo CS
M Titus	Chief Engineer – Apollo CS

Name	Designation
Z Sethusa	Maintenance Manager – Apollo CS
Z Zwane	HV Plant snr Supervisor – Apollo CS

5. Revisions

Date	Rev.	Compiler	Remarks
February 2026	0	M Chamane	Technical evaluation criteria

6. Development Team

n/a

7. Acknowledgements

None