Eskom	Scope of Work	Generation

Title: **Supply and deliver of Various Bearings, Taper Locks, plummer blocks and Sleeves at Duvha Power Station Stores**

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1. INTRODUCTION

Duvha Power Station, owned and operated by Eskom is a coal fired power station located in Witbank, Mpumalanga Province. Eskom Duvha Power Station is located about 15 kilometres south-east of Emalahleni in the Nkangala District, Mpumalanga Province. The Power Station has six power generating units with a combined capacity of 3,000MW.

Eskom uses bearing, taper locks, Plummer blocks and sleeves multiple application across the entire power station. Applications range from large plant systems to small bearing applications. Multiple bearing, taper locks, Plummer blocks and sleeves types are required to meet all these requirements. Bearings, taper locks, Plummer blocks and sleeves in the industrial arena are manufactured to meet the requirements of multiple application but also to meet specific performance standards. However, in this arena, bearings that meet the same performance requirements are not required to be compatible with each other. The chemistry and formulation used are mostly propriety to the various bearing manufacturers. This scenario is often confused and contrasted with the automotive arena in which strict licensing guidelines exist that ensure that bearings, taper locks, Plummer blocks and sleeves must meet not only performance standards but be able to mix with each other.

To eliminate this risk, it was recommended that station continue to purchase the bearings as they had been using previously. This meant that bearing manufactured by Eskom's existing suppliers should continue to be used.

2. APPLICABILITY

This document applies to Duvha Power Station only.

2.1. NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.1.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] 32-727 - Eskom Safety, Health, Environment and Quality (SHEQ) Policy

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

[4] QM58 - Suppliers contract quality requirements specification

[5] MGM0001 - Maintenance Quality Manual

[6] Duvha Waste Management Procedure ENVP0005

[7] SANS 10120-2 A: General

[8] Refer to Eskom standard 240-83797901 as well as results of turbine and hydraulic oil compatibility testing.

[9] SAS0012 - Safety, Health & Environmental Specifications for Contractors

[10] 240-62196227 - Eskom Life Saving Rules

2.1.2 Informative

[1] 474-58 (Rev1): Document and Records Management

3 DEFINITIONS

3.1 DISCLOSURE CLASSIFICATION

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

3.2 ABBREVIATIONS

Definitions	Descriptions
HIRA	Hazard Identification & Risk Assessment
ISO	International Standardisation Organisation
C&I	Control and Instrumentation
EMD	Electrical Maintenance Department
HMD	Heavy Maintenance Department
TSS	Technical Support Services
OHS	Occupational Health and Safety Act 85 of 1993
PPE	Personal Protective Equipment
PU	Polyurethane
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
QM	Quality Management
SANS	South African National Standards
SHE	Safety, Health, Environment
SHEQ	Safety, Health, Environment and Quality

3.3 ROLES AND RESPONSIBILITIES

Appointed Contractor

- All contractors shall work within the parameter of the job description and scope of work. To keep all instructions/ procedures on hand and supply Eskom power station with reference to be included in this document and supply record and history requirements.
- Contractors must also ensure that the work is performed to the highest standard and in line with Eskom SHEQ policy and applicable OHS regulations.

- Execute the scope of work safely as per Occupational Health and Safety Act 85 of 1993.
- Execute the scope of work as per the employer's specification and SANS 1253 (latest revision). To ensure quality assurance is done as per QM 58.

Project Manager

To ensure that the supplier execute all the work specified in the scope of work on the set timelines and also ensure that:

- All work is executed in accordance with the legal requirements (Occupational Health and Safety Act 85 of 1993).
- All employees are provided with the prescribed personnel protective equipment (PPE) as required.
- All workers are familiar with the project hazard and risk assessment and relevant control measures.
- The work is carried out by appropriately authorised or competent persons.
- Ensure that all documents are accurately completed and signed before returning the documents like service instruction and information documentation to Work Management Department for capturing and filing.

Maintenance Technician

- Develops the scope of work and ensures execution of work by contractor as per scope of work.
- Ensure quality of work is achieved by following approved quality control plan.
- Inspection of all hold/witness points indicated on the QCP.
- Must ensure work is done to the highest standard and regarding to the safety regulations.
- Must supervise the works during execution.

System Engineer (SE)

- As custodian of the Maintenance Basis, they must ensure all actions required in terms of the reliability base and any other reliability matters are implemented on their systems.
- Must inspect the system after the maintainer has maintained, following the approved quality control plan.
- The SE will review the scope of work developed by maintenance and the work, which will be executed and ensure that quality assurance is adhered to.

4 SCOPE

The purpose of this document is to outline the scope of work of Supply and delivery of various bearings, taper locks, Plummer blocks and sleeves at Duvha Power Station on As and when Required for a period of five (5) years.

4.1 Description of the works

The supply of various bearings, taper locks, Plummer blocks and sleeves is detailed in the relevant bearings survey for Duvha Power Station. The lubricants include most types of bearing, taper locks, Plummer blocks and sleeves per Duvha list.

Notes:

- It is the Contractor's responsibility to verify all quantities before delivery.
- Each bearing that will be delivered must meet the standard as per requirement.

5 PROJECT REQUIREMENTS

The Quality Control Plan shall consist of the following as a minimum and shall be accepted by the *Quality representative* of the *Contractor* prior to commencement of work and shall be sent to Eskom Project Manager for approval. The QCP will also include painting/PU procedures where applicable.

A covering page, table of contents and QCP which includes and makes provision for the following but not limited to:-

- QCP unique number.
- Revision number.
- Page number
- Provision for QCP approval signatures by the *Contractor* (Supervisor and Quality Controller) and Eskom System Engineer and/ or Eskom QC.
- Provision to incorporate all inspection reports or any form of records to prove conformity to requirements.
- High level description of work in execution including Item/ component/ system/ sub-system.
- Provision for nomination of intervention points for each activity as per SOW.
- Provision for review and approval signatures and dates by the *Contractor* (Supervisor and Quality Controller) and Eskom System Engineer and/ or Eskom QC.
- Provision for final acceptance/ releases approval signatures by the *Contractor* (Supervisor and Quality Controller) Eskom System Engineer and/ or Eskom QC.

5.1 TEST REPORTS

- Where tests are performed, they shall be recorded and the positions of measurements are traceable to the specific area of testing against the records. Therefore, the Contractor will submit all test reports that has been performed in the form of Data Pack.

5.2 QUALITY

- The Contractor shall ensure adherance to Supplier Quality Management QM 58 240-105658000.

5.3 HEALTH AND SAFETY

- The Contractor shall prepare and submit the SHE file to Safety Risk Management Department for review and acceptance before work commences.
- The Contractor shall provide their personnel with appropriate and adequate PPE for the plant area and work to be carried out.
- The Contractor shall adhere to Occupational Health and Safety Act No 85 of 1993 while executing the works.
- All work to be carried out to be in line with 32-727 – Eskom Saftey, Health, Enviromental and Quality (SHEQ) Policy
- The Contractor to comply with Eskom's Life Saving Rules
- SHE Plan and Project Baseline Risk Assessment shall be in line with the scope of work and not be generic.
- The Contractor shall have competent persons amongst their team members on site, and they shall have competency and the supervisor's, and site manager shall be trained in HIRA and SHE Legal or OHS Legal Liability.
- A safe work procedure shall be compiled for the safe execution of the scope of work.

5.4 ENVIRONMENTAL

N/A

5.5 PERMIT TO WORK

N/A

5.6 DATA BOOKS

The *Contractor* submits signed off Data Books to the *Supervisor* for his acceptance. Data books include the following, as a minimum (where applicable):

- Document List;
- Instruction for Work/ Purchase Order;
- Approved QCP's;
- Risk assessments;
- Material Certificates;
- Technical Queries, Engineering Responses and communications with *Project Manager/ Employer;*
- Non-conformance reports;
- Internal Release Notes;

- Transport notifications;
- Calculations for any temporary works that may be required for the safe execution of the *works;*

6 RELATED/SUPPORTING DOCUMENTS

None

7 STAKEHOLDER ENGAGEMENT

This document has been seen and accepted by:

Name & Surname	Designation	Signature

8 AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation

9 REVISIONS

Date	Rev.	Compiler	Remarks
July 2025	0		Draft document
August 2025	0		Final Document