

	<b>Scope of Work</b>	<b>Tutuka Power Station</b>
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Title: **Tutuka Power Station Scope of Work Supply and Delivery of Various Greases**

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## **1. Introduction**

Tutuka Power Station intends to request Contractors/Suppliers to tender for supplying and delivering various greases as per Scope of works. The spares are to be supplied and delivered for a period of five (5) years.

The evaluation of the of the tender is based on the tenderer's ability to meet both mandatory and qualitative requirements specified for the scope of work. A weighted score card approach will be used to evaluate the tenders against the Employer's requirement.

## **2. Supporting Clauses**

### **2.1 Scope**

The scope of work (SOW) specifies the required spares to be supplied by the *Supplier* on an as and when required basis and conditions for acceptance. The scope included here does not substitute procurement procedures that will be followed during the procurement process.

#### **2.1.1 Purpose**

The purpose of this document is to provide the scope of work and technical information for the supply and delivery of various greases, and to ensure that all maintenance consumables being procured by Tutuka Power Station are appropriate and meet the required specifications.

#### **2.1.2 Applicability**

This document is applicable to Tutuka Power Station.

#### **2.1.3 Effective date**

This document will be effective from the date of its 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] ISO 9001 Quality Management Systems
- [2] 36-681 Generation Plant Safety Regulations
- [3] 32-727 SHEQ Policy

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[4] 240-84513751: Material Specification and Certification Guideline for Power Generation Plant

[5] 240-54820279: Receive Materials

[6] BS EN 10204 (2004) - Metallic products -Types of Inspection Documents

[7] Table 2 – List of Standards applicable for use

### **2.2.2 Informative**

N/A

## **2.3 Definitions**

<b>Definition</b>	<b>Explanation</b>
Contractor	Service provider contracted to provide a specific spares & documentation to Tutuka Power Station. Referred to as the Supplier on this document.
Employer	Tutuka Power Station
Disclosure Classification	Controlled Disclosure to external parties (either enforced by law, or discretionary).

## **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
ISO	International Organisation for Standardisation
KPI	Key Performance Indicator
OEM	Original Equipment Manufacturer
OHS	Occupational Health & Safety
PSR	Plant Safety Regulations
SHEQ	Safety, Health, Environmental & Quality
SOW	Scope Of Work

## **2.5 Roles and Responsibilities**

### **2.5.1 Contractor**

- a) To Supply and Delivery of Various Greases for Tutuka Power Station in accordance to the specifications and technical requirements on this document.

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- b) Supply Original Equipment Manufacturer (OEM) data sheet or documentation where applicable on every delivery. Spares to be supplied in their original OEM packaging still sealed.
- c) Contractor shall submit all documentation as requested by the Employer.
- d) Contractor to provide schedule on deliveries of spares.

#### **2.5.2 Employer**

- a) Compiles and submit scope of work with technical specifications and technical drawings where required.
- b) Performs Quality Control of all spares or lubricants on delivery at the Employer premises.

#### **2.6 Process for Monitoring**

This document will be a once-off document to state the scope of work to Supply and Delivery of Various Greases contract.

#### **2.7 Related/Supporting Documents**

N/A

### **3. Scope**

Supply and Delivery of Various lubricants greases.

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#### 4. Description of the works

The works is to Supply and Delivery of Various Grease for Tutuka Power Station with technical specification as per the oil list. The Greases are listed in Table 1.

**Table 1: Various Grease List**

Nr.	STOCK NO.	STOCK DESCRIPTION	UOM	QTY	Type
1	198220	GREASE, INDUSTRIAL: TYPE: OPEN GEAR, TUBE MILL GIRTH GEAR LUBRICANTS; TEMPERATURE RATING: 80 DEG C; VISCOSITY RATING: 5000; COLOR: BLACK; CONTAINER: DRUM 180 KG; GRADE: NLGI; SPECIFICATION: ESKOM GGSS 0587; MANUF P/N: OGL6000; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	KG	35700 Kg per year	Open Gear Lubricant
2	160112	GREASE, INDUSTRIAL: TYPE: ANTI SEIZE; THICKENER: NICKEL; VISCOSITY RATING: 95 AT 204 DEG C; CONTAINER: CAN 500 G; PHYSICAL FORM: PETROLEUM BASE; GRADE: 725; SUPPL P/N: 785; IN 429ML AIROSOL TINS; CHESTERTON ONLY; CHEMICALS TO BE SUPPLIED WITH MSDS AND SECTION 12 (ECOLOGICAL INFORMATION OF THE MSDS TO BE COMPLETED IN DETAIL)	EA	60 cans per year	Greases
3	161338	GREASE, INDUSTRIAL: TYPE: COUPLING; COLOR: BROWN; CONTAINER: CAN 2 KG; SUPPL P/N: FALK LONG TERM	KG	365 cans per year	Greases
4	161429	GREASE, INDUSTRIAL: TYPE: GEAR SHIELD; TEMPERATURE RATING: 250 DEG F; CONTAINER: DRUM 210 L; PHYSICAL FORM: PASTE; SUPPL P/N: NC; OPEN GEAR LUBRICANT, SPECIFIC GRAVITY 0.96, DILUENT CONTENT 13PCT WT, CHEMICALS TO BE SUPPLIED WITH MSDS AND SECTION 12 (ECOLOGICAL INFORMATION OF THE MSDS TO BE COMPLETED IN DETAIL) WITH EVERY DELIVERY	L	14000 L per year	Open Gear Lubricant
5	0161350	GREASE: TYPE: OPEN GEAR; TEMPERATURE RATING: 60 DEG C; CONTAINER: DRUM 180 KG; TRADE NAME: PETRON GEAR SHIELD NC; SUMMER PRODUCT, TEMPERATURE FLASH POINT: 132 DEG C, FOR USE ON ESKOM TUBE MILLS, TO BE SUPPLIED IN PROPERLY SEALED 210L DRUMS THAT CAN PREVENT	KG	28600KG Per Year	Greases

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		ANY CONTAMINATION, MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; SUPPLIERS TO PROVIDE EXPIRY/MANUFACTURING DATE OF THE ITEM			
6	659335	GREASE, INDUSTRIAL: TYPE: LUBRICANT; TEMPERATURE RATING: -25 TO 180 DEG C; THICKENER: CALCIUM SULPHORATE CA(SO <sub>3</sub> ) <sub>2</sub> ; VISCOSITY RATING: 180CST AT 40 DEG C; COLOR: ROSE RED TO LIGHT BROWN; CONTAINER: PLASTIC 18 KG; PHYSICAL FORM: JELLY; GRADE: DIN51502; TRADE NAME: COUGAR/MOSIL/RHENUS; CLASS: KP2R-25; SPECIFICATION: ISO6743-9:L-XBFB2; ITEM TO BE SEALED AND LABELED; DATASHEET AND MSDS REQUIRED ON EVERY DELIVERY INCREASE MIN, TO 35 DRUMS X 20L = 700L (I.E. 35 X 18KG=630KG) AND INCREASE THE MAX. TO 50 DRUMS X 20L = 1000L (50 X 18KG = 900KG)	EA	26 containers per year	Greases
7	553367	GREASE, INDUSTRIAL: TYPE: MULTI PURPOSE EP; TEMPERATURE RATING: 288 DEG C; THICKENER: CALCIUM/SULFONATE; VISCOSITY RATING: 193CST AT 40DEG C; COLOR: GREEN; CONTAINER: DRUM 16 KG; GRADE: NLGI; TRADE NAME: MATRIX EP2; HIGH SPEED; WATER; CHEMICAL AND TEMPERATURE RESISTANT	KG	23800 kg per year	Greases
8	218294	GREASE: CONTAINER: 4.5 KG; SUPPL P/N: H-9022; HIGH TEMPERATURE; FOR USE ON CLARIFIERS	KG	20 containers per year	Greases
9	161461	GREASE: TYPE: ELECTRICAL CONTACT; CONTAINER: CAN 500G; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	EA	20 containers per year	Greases
10	727955	GREASE: TYPE: HIGH TEMPERATURE; TEMPERATURE RATING: 0 UP TO ABOUT 350; CONTAINER: 7KG; TRADE NAME: MOLUB-ALLOY PASTE PL	EA	20 containers per year	Greases
11	161289	LUBRICANT: TYPE: OPEN GEAR; FORM: THICK BLACK ADHESIVE; CONTAINER: DRUM 15.9 KG; OPEN GEAR AND BUSHING LUBRICANT	EA	10 containers per year	Open Gear Lubricant

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## **4.1 Documentation**

The following are the *Supplier's* requirements:

- a) The *Supplier* will ensure proper handling of the spares (from procurement of equipment, storage and transportation).
- b) The spare must be to the exact same specification as per works information / scope of works.
- c) The *Supplier* will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, data sheet, Settings Document for programmable electronic cards etc. Check sheets or drawings for quality inspections.
- d) The *Supplier* shall supply preservation and storage procedure/s, where applicable.
- e) The Employer may make clarification sessions available to either prospective *Supplier/s* in order to further assist the prospective *Supplier's* to meet the requirements of the work to be performed by the *Supplier*.
- f) The *Supplier* must ensure that all components supplied must be individually packed in such a way as to protect the parts during transport and storage. The packaging must also include the necessary labels to identify the items.

## **4.2 Acceptance of Spares**

### **4.2.1 Spares Identification**

Each spare is identifiable by means of an Eskom SAP Material number (as is used in the Power Station), part description, OEM and/or OEM part number.

### **4.2.2 Packaging**

- I. Different spare types shall be packaged separately such that each spare type can be stored separately. Packaging shall be such that the spare can be identified without opening the packaging. Packaging shall be of material that will not be damaged, to an extent possible, by harsh weather conditions during transportation. If that is not possible, then the packaging shall be protected against such conditions.

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- II. Where possible, packaging to be such that procured spares can be positively identified through the packaging. Where this is not possible, the packaging to be such that it allows opening and closing of packaging and still maintain the packaging integrity thereafter.
- III. Delivery packaging shall include as a minimum the following details:
  - a) Purchase Order Number
  - b) Part Description
  - c) Part number
  - d) Eskom SAP Material number
  - e) Drawing number, where applicable
  - f) Physical address of Tutuka Power Station and the *Supplier*
  - g) Contact details of the *Supplier*
  - h) Delivery note number

#### **4.2.3 Acceptance of spares**

- a) No incorrect, damaged or faulty spares will be accepted.
- b) All the spares will be inspected and accepted by Engineering and/or OEM Technician before payment could be processed.
- c) Data capturing forms information must be supplied and must meet an acceptable level.
- d) The Supplier must ensure that the supply and preservation of spares is done in compliance with preservation specifications and good engineering practice.
- e) The Supplier to advise the Purchasers warehouse/stores on effective storage of spares and preservation.
- f) Upon delivery of the goods at the Eskom stores, an inspection of goods and the receipt must be conducted by the End-user and the Supplier with 48 hours of delivery. There must be an approved list of appointed quality inspectors available with specimen signatures and this must be updated annually. As per Work Instruction, Receive Materials – 240-54820279.
- g) The Supplier must supply the Purchaser with warrantee certificates, test certificates and the complete data book of spares at the time of delivery which shall be uploaded into the SAP

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system Goods Receipt document as per Work Instruction, Receive Materials - 240-54820279.

- h) The Supplier must deliver the goods as per the agreed to delivery times.
- i) The Supplier to provide 3.1 Material certificates as a minimum, where applicable.

#### **4.3 Spares Management**

The Purchaser may request the Supplier to provide accurate description of all spare parts included in the spares list.

#### **4.4 Equipment Required**

The Supplier and his sub-suppliers must possess the tools and equipment to satisfy the requirements for the scope.

#### **4.5 Workshop**

The Supplier and his sub-suppliers are required to have suitable premises with the required tools and equipment to be able to conduct the scope of work. Eskom reserves the right to inspect the workshop premises to make sure that it is kept up to standard.

#### **4.6 Planned KEY PERFORMANCE INDICATORS (KPI)**

- a) The KPI's will be used to determine the successful performance of the scope. The Supplier is required to perform in order to meet these targets. The KPI's are to be agreed to between parties and are subject to change on an annual basis, based on the need.
  - First committed delivery date
  - Quality
  - Non-compliance to the agreed Scope of Work, hold points and Quality Control Plans

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