

	<b>Scope of work</b>	<b>Generation Komati Power Station</b>
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Title: **SUPPLY AND DELIVERY OF  
LABORATORY AND WATER  
TREATMENT PLANT CHEMICAL  
REAGENTS**

Unique Identifier: **285-169348**

Alternative Reference Number:

Area of Applicability: **Komati Power Station**

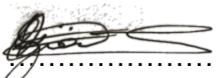
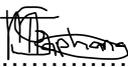
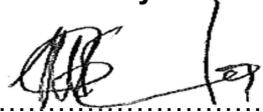
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## **1. INTRODUCTION**

Komati Power Station Chemical Services (Water Treatment Plant and Laboratory) provide analytical services (water analysis) to the station for potable water production. Analytical reagents are used to operate the instruments for analysis purposes, to ensure the production of accurate and reliable analysis results these instruments need high quality reagents for calibration, quality control and maintenance. Chemical reagents ensure that the instruments are calibrated and maintained so they are always 100% available for plants (WTP) make informed decisions in optimising the plant performance.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

#### **2.1.1 Purpose**

To define the scope of work for the supply and delivery of chemical reagents

#### **2.1.2 Applicability**

This document shall apply to Komati Power Station.

#### **2.1.3 Effective date**

This document is effective from the authorisation date.

### **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**

- ISO 9001 Quality Management Systems
- OHS Act Occupational Health and Safety Act
- PAB 20100 Waste Management and Disposal Procedure

#### **2.2.2 Informative**

- N/A

### **2.3 DEFINITIONS**

- N/A

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## **2.4 ABBREVIATIONS**

<b>– Abbreviation</b>	<b>– Explanation</b>
DPD	N,N-Diethyl -P-phenyleneDiamine
EDTA	EthyleneDiamineTetraAceticacid
ICP	Inductive Coupled Plasma
LIMS	Laboratory Information Management System
OEM	Original Equipment Manufacturer
WTP	Water Treatment Plant

## **2.5 ROLES AND RESPONSIBILITIES**

- **Employer Representative**

Ensure Supplier familiar and conversant with this scope.

Review the scope as and when required.

Carry out their duties in line with this scope of work

- **Supplier Representative**

Familiarize to all applicable standards and procedures associated with the excursion of this scope of work.

## **2.6 PROCESS FOR MONITORING**

- Not applicable

## **2.7 RELATED/SUPPORTING DOCUMENTS**

**N/A**

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### 3. SCOPE

Supply and delivery of chemical reagents as listed on the table below.

Supplier shall comply with Eskom's policies and site regulations, adherence to Eskom's lifesaving rules, etc.

**Supplier to take note of the following:**

CHEMICAL NAME	QUANTITY	VOLUME/MASS
Acetone	12	2.5L
Acetyl Acetone	15	2.5L
Aluminium ampoule	12	1L
Citric Acid reagent	6	500 ml
Amino acid F dilution reagent	9	500 ml
Amino acid powder	9	500 ml
Ammonium Molybdate salt	9	500 ml
Ammonium Ferrous Sulphate	2 pack	2 pack
Barium ampoule	2 of 1l	1l
Buffer 4	25	500ml
Buffer 7	25	500ml
Buffer 9	25	500ml
Calcium ampoule	9	5 ampoule
Chromium ampoule	12	5 ampoule
Copper ampoule	12	5 ampoule
Di-isopropylamine solution	12	2.5L
DPD tablets boxes	150 pack	pack
EDTA ampoule	9	1L
Hydrochloric Acid solution 32%	9	2.5L
Iron ampoule	3 of 1L	5 ampoule
Lead ampoule	3 of 1L	5 ampoule
Magnesium ampoule	4 of 1L	5 ampoule
Manganese ampoule	9	1L
Molybdate 3 reagent for silica	12	5L
Nessler reagent	12	1L
Nitric acid ampoule	10	5 ampoule
Nitric Acid solution 65%	4	2.5L
Ortho-phosphoric acid 85%	4	2.5L
Na ampoule	9	1u
Sulphuric acid	9	2.5L
Sodium Hydroxide pellets 5kg	2	2.5L
Tris(hydroxymethyl)aminomethane salt	4	1L

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Tween	5	1L
Plastic sample bottles	60	1L
Plastic sample bottels	60	500ml

### **3.1 REQUIREMENTS**

#### **3.1.1 SHEQ**

Adherence to Eskom generic policies. Supplier shall comply with Eskom's policies and site regulations, adherence to Eskom's lifesaving rules, etc. The Supplier shall always adhere to all SHEQ requirements stipulated by the employer.

#### **3.1.2 TESTS**

- Provide certificate of Analysis with every delivery of chemicals. The certificate of analysis must provide a complete list of chemical concentration and all impurities in the products.

#### **3.1.3 Marking, Labelling and Packaging**

- The supplier must provide a Material Safety Data Sheets (MSDS) which includes all the 16 points and Local Contract details (South African Telephone Numbers), the MSDS must be valid with an expiry date
- Provide the certificate of analysis before offloading on site. No delivery will be accepted without the QC check for the chemicals.
- No repackaged chemicals, only original chemicals must be delivered.
- No chemical container shall be accepted by the responsible Chemical Services personnel and or received at Eskom Stores Receiving without adequate identifying label information, container damage or leakage. The label should include, as a minimum, the substance name, shelf life or date of expiry, appropriate hazard warnings and identification of the manufacturer or distributor. The supplier must ensure all these requirements are met.
- The supplier shall be responsible for all costs associated with chemical deliveries that are rejected by Eskom due to quality issues (non-conformance of product to quality requirements) as well as products with damages or leakage issues. This will include delivery costs, recall costs, etc.
- The supplier accepts that Eskom may, at any time during the course of the contract, request a Correct Action Report from the supplier to address non-conformances in the products supplied.

### **CONTROLLED DISCLOSURE**

#### **4. ACCEPTANCE**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Mpho Manamela	Manager Chemistry
Glen Maphanga	Senior Technician
Emmanuel Manyaga	Senior Technician

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
February 2023	0	ET Tjana	First issue

#### **6. DEVELOPMENT TEAM**

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

Glen Maphanga

Emmanuel Manyaga

#### **7. ACKNOWLEDGEMENTS**

None.

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