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|  | <b>Scope of Work</b> | <b>Generation: JET Office</b> |
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**Title: Appointment of a Contractor to Refurbish existing infrastructure in Preparation for Copper Recycling at Komati Power Station and to Supply, Transport, Install and Commission a Copper Recycling Plant**

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## **1. INTRODUCTION**

The decommissioning of Komati Power Station presents both a challenge and an opportunity in the context of South Africa's Just Energy Transition (JET). There is a need to repurpose Power Station assets in a way that supports economic resilience, job creation, and environmental sustainability. An opportunity to set up a pilot copper recycling plant at Komati Power Station has been identified and supported as part of the Just Energy Transition (JET) portfolio.

By leveraging existing infrastructure at Komati Power Station, the project minimises capital investment while accelerating industrial growth in the surrounding areas. It is a timely and strategic intervention that supports both economic and environmental objectives, ensuring that Komati Power Station continues to play a vital role in the country's evolving energy and industrial landscape.

### **1.1 Scope**

This scope covers the purchase, supply, installation and commissioning of a Copper Recycling Plant, and to effect the necessary infrastructure upgrades and refurbishment that is required to get Komati Power Station ready for the operations of a Copper Recycling facility. Essential upgrades to security, power and water supply together with general repairs, and refurbishment is required to make this project successful. The scope also covers the maintenance and operation of the Copper Recycling Plant for a two-year period and the recruitment and training of a local workforce to operate and maintain the plant.

#### **1.1.1 Purpose**

The purpose of this document is to specify the scope that is required for the Copper Recycling facility to be implemented at Komati Power Station.

#### **1.1.2 Applicability**

This document shall apply to Komati Power Station and the JET Office

#### **1.1.3 Effective date**

The effective date will be when the contract for these services has been set up and approved and supporting systems required for compliance to the document requirements have been established and implemented.

## **1.2 Normative/Informative References**

### **1.2.1 Normative**

- [1] ISO 9001 Quality Management Systems – Requirements
- [2] Supplier Quality Management Specification (QM58): 240-105658000
- [3] ISO 19011: Guidelines for Quality and/or Environmental Management Systems Auditing
- [4] Supplier Quality Management List: List of Tender Returnables: 240-12248652
- [5] ISO 14001:2015 Environmental Management System- Requirements

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### **1.2.2 Informative**

- [1] ISO 45001:2018 Occupational Health & Safety Management System
- [2] 36-1131 Conducting of QMS Internal Quality Audit
- [3] OHS Act & Regulations
- [4] National Environmental Management: Waste management Act 59 of 2008

### **1.3 Abbreviations**

| <b>Abbreviation</b> | <b>Explanation</b>                    |
|---------------------|---------------------------------------|
| JET                 | Just Energy Transition                |
| QCP                 | Quality Control Plan                  |
| SHEQ                | Safety, Health, Environment & Quality |

### **1.4 Related/Supporting Documents**

All divisional and business unit supplier quality requirements, standards and/or specifications

### **1.5 Roles and Responsibilities**

#### **1.5.1 Employer representative**

- Responsible to coordinate the works, and for all contract management and liaising with the Contractor
- Responsible for managing and supervising the works being executed.
- Compiles scope of work.
- Conducts technical evaluation, as per the issued technical evaluation strategy.

#### **1.5.2 Principal Contractor**

As per OHS Act (85/1993) executes scope of work issued by the Employer.

#### **1.5.3 Komati Safety**

Ensures safety legislation and standards are adhered to, and that safety practices are always implemented during execution of the works.

#### **1.5.4 Komati Environment**

Ensure Environmental legislation, standard and procedures are adhered to during execution of the work

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## **1.6 Process for Monitoring**

The tender committee will adjudicate the tender evaluation and contract appointment.

The Contractor will compile a QCP, which will ensure the works are executed within the relevant technical, and SHEQ requirements, as well as specified duration including a program/Gantt chart.

## **2. DESCRIPTION OF THE WORKS**

### **2.1 Baseline Assessment**

The contractors must inspect the following plant areas at Komati Power Station to ensure structural integrity and functionality. The baseline assessment must include the relevant testing required to assess the level of safety and functionality. The outcomes of this assessment will form the basis of the scope.

- Weigh Bridge
- Allocated Workshop
- Security
- Existing Water supply
- Existing Power Supply

### **2.2 Transportation Scope**

The Copper Recycling Plant must be safely transported to Komati Power Station (allocated workshop).

### **2.3 Refurbishment Scope**

The following scope is a guideline and must be confirmed during the baseline assessment.

All detailed designs and drawings of the following scope to be reviewed by Eskom, Komati Power Station before construction begins.

- Ablution Facilities and Showers - The allocated workshop must be fitted with showers, changerooms and ablution facilities adjacent to the workshop areas.
- Water Supply – Water may be required for the copper recycling process. The contractor shall be fully responsible for the provision of water to the recycling plant. This includes, but is not limited to, the design, supply, installation, and connection (tie-in) to the existing water infrastructure as necessary to ensure an adequate and reliable water supply for operational requirements.
- Power Supply – An upgrade of the existing power supply infrastructure will be required to meet the operational requirements of the copper recycling plant. The final positioning of machinery, plug points, and associated cabling will be confirmed once the Recycling Plant contract has been awarded and the plant layout finalized. All designs, layouts, and drawings will be prepared and submitted to Eskom for approval prior to construction, and all works shall comply with applicable SANS standards, Eskom standards, and electrical regulations.
- Weigh Bridge Refurbishment – Additional to the baseline assessment in 2.1. The weigh bridge must be returned to service to a certifiable operational standard.

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- Refurbishment of the allocated building –
  - Additional to the baseline assessment in 2.1. the scope will include the general clean-up of the workshop. The contractor must apply all facility regulation requirements including but not limited to ventilation and lighting.
  - The workshop must be fitted with certified meters to measure water and electricity usage.
  - Civil works based on the final placement of the copper recycling equipment will need to be performed. This will include but not limited to plinths, bund walls, cable trenches and concrete flooring.
  - The workshop once refurbished must allow for the installation of the Copper Recycling Plant, with required civil, electrical & mechanical works complete.
- Security - Additional to the baseline assessment in 2.1. The existing level of security surrounding the allocated workshop must be assessed to ensure that any upgrades are well integrated to the existing security operations. Provision must be made for a perimeter wall (double wall 2.4m high), electric fencing, perimeter lighting, biometrics, surveillance and detection and a security guardhouse. The baseline assessment will determine how the security system will be upgraded to ensure the seamless and uninterrupted operations of the Copper Recycling Facility.

## **2.4 Design, Supply, Install and Commissioning of Equipment and Machinery (Copper Recycling Plant and supporting Equipment and Machinery)**

The contractor shall be responsible for the Design, Supply, Installation and Commissioning of a Copper Recycling Plant with all associated machinery and equipment at Komati Power Station, capable of processing a minimum of 20 tons and maximum of 300 tons per month of copper cabling. This must include all necessary supporting documentation. All designs produced from this scope of work must be submitted to Eskom for review and approval.

## **2.5 Dismantling Scope**

The contractor shall be responsible for the dismantling, removal, and processing of copper cabling from the designated areas within Komati Power Station, as approved by Eskom. This must include all necessary supporting documentation, such as safety protocols, method statements, and waste disposal records.

## **2.6 Operations and Maintenance**

The supplier shall operate and maintain the plant for a period of two years and shall recruit and train the necessary resources to operate and maintain this plant. The majority of these resources shall be sourced from the Komati community. The plant shall be handed over to Eskom as a fully operational plant for continued operations after the two-year pilot period. The pilot period must include testing to assess the feasibility of recycling other materials, including waste tyres and aluminium cabling.

All revenue generated from the sale of recycled PVC, Copper and Steel, including any profits, must be fully reinvested back into the project. Eskom shall have the right of first refusal to purchase any materials produced by this recycling initiative.

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## **2.7 Deliverable Schedule**

The Contractor shall provide a detailed delivery schedule with timelines/dates and milestones (e.g., Gantt chart) and dependencies (e.g. waste processing registration, second hand goods dealer/recycler registration).

The table below shows the key milestones and the expected dates of completion.

| <b>No.</b> | <b>Deliverable</b>                                             | <b>Date</b> |
|------------|----------------------------------------------------------------|-------------|
| 1          | Procurement of Copper Recycling Plant and associated machinery | 15 Jan 26   |
| 2          | Site Refurbishment & Upgrades                                  | 28 Feb 26   |
| 3          | Plant Installation                                             | 31 Mar 26   |
| 4          | Plant Commissioning                                            | 30 Apr 26   |
| 5          | Recruitment & Training                                         | 30 Apr 26   |

## **2.8 Pricing and Payment**

Payments shall be made against an activity-based schedule, which shall be mutually agreed upon by the Contractor and Eskom. Each payment is contingent upon the successful completion of the activity/works and its associated deliverables.

## **2.9 Evaluation of Proposals**

The tenders that score the highest on the technical evaluation will be considered for financial evaluation.

## **3. LABOUR, MATERIALS AND TOOLS/EQUIPMENT**

The Contractor shall be responsible for the supply and delivery of all materials, tools, equipment, tools, machinery, labour, approved machinery operators and specialist skills necessary to execute the works described above. All equipment and machinery must be in working order. The Contractor to conduct calibration tests on all tool's machinery, and equipment.

The Contractor shall provide their own resources to secure security of tools, materials, and machinery/equipment that will be stored on site. The Employer will not be liable to account for any costs related to damages or theft of Contractor's tools, materials, and machinery and equipment.

The Contractor shall ensure that all machinery and equipment used on site will be replaced when damaged or scheduled for maintenance/service and ensure no delays due to unavailability of machinery.

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## **4. CONFIGURATION MANAGEMENT**

All documents supplied by the Contractor shall be subject to Eskom's approval. The language of all documentation shall be in English.

All project documents must be submitted to the Employer's Representative with transmittal note. The Contractor is required to submit documents as electronic and hard copies, and both copies must be delivered to the Eskom Representative with a transmittal note.

## **5. CONFIDENTIALITY**

- All data and information received from Eskom for the purpose of this work must be treated confidentially and is only to be used in connection with the execution of this Scope of Work.
- The contents of written materials obtained and used in this work may not be disclosed to any third parties using any media, without the expressed advance written authorization of Eskom.

## **6. DOCUMENT RETURNABLES**

The contractor shall produce and submit a project plan, project quality plan, organogram, detailed method statement, QCP, safety file for approval prior to the commencement of work. The Contractor to conduct induction and medicals prior to commencement of work.

## **7. ACCEPTANCE**

This document has been seen and accepted by:

| <b>Name</b>       | <b>Designation</b>                               |
|-------------------|--------------------------------------------------|
| Tebogo Lekalakala | Middle Manager Business Development - JET Office |
| Thevan Pillay     | General Manager - Komati Power Station           |

## **8. Revisions**

| <b>Date</b>    | <b>Rev.</b> | <b>Compiler</b> | <b>Remarks</b> |
|----------------|-------------|-----------------|----------------|
| 4 March 2025   | 0           | Melissa Naidoo  | Draft          |
| 08 August 2025 | 1           | Melissa Naidoo  | Final Draft    |

## **9. Development Team**

- Melissa Naidoo
- Mpilo Mazibeni

## **10. Acknowledgements**

N/A

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