	SCOPE OF WORK	Generation Komati Power Station
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Title: **SCOPE OF WORK FOR PROVISION
OF INDUSTRIAL AND GENERAL
CLEANING SERVICES AT KOMATI
POWER STATION**

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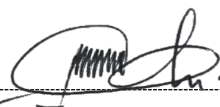
Compiled by



Dinah Mahlangu
Senior Supervisor
Technical Operating

Date: 2022/11/24

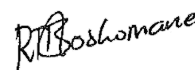
Functional Responsibility



Vincent Makhubedu
Manager Operating
Support

Date: 2022/11/22

Authorized by



Shoki Mbowane
Operating and Production
Middle Manager (Acting)

Date: 24.11.2022

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1. INTRODUCTION

Provision of industrial and general cleaning services at Komati Power Station

2. SUPPORTING CLAUSES

2.1 Scope

2.2 Purpose

To keep the state of the plant in a clean and safe condition according to health and safety requirements. Work breakdown structure and applicability

2.2.1 Applicability

- Machine Workshop
- All plants related to fuel oil (including bulk and service fuel oil tanks)
- Compressor House
- Propane gas station
- Lube Oil store and bulk lube oil tanks and surroundings
- Weighbridge(s) cleaning at Stockpile
- Water Purification plant, RO plant and Ammonia plant board floors
- Turbine house crane, running rails and walkways
- Feed bay crane, running rails and walkways
- All cleaning and emptying of dust bins
- Stores on operating floor level
- Lashing of the Coal bunkers
- Office behind Unit 1 on operating floor level
- Cleaning of the ERI SPO offices and cleaning of the ERI offices next to the Main store.
- Smoke-stack cleaning on all levels
- Picking-up litter around the station
- Ash and coal related plant

2.2.2 Effective date

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2.3 Normative/Informative References.

2.3.1 Normative

[1] ISO 9001 Quality Management Systems

2.3.2 Informative

2.3.2.1 Plant safety regulations (360-681), Limited Access Register.

2.4 Definitions

None

2.5 Abbreviations

Abbreviation	Explanation
HOG	Head of Group or Group Manager
OPS	Operating Department.
Prod. Supp	Production Support.
SPO	Senior Plant Operator
PPO	Principal Plant Operator
HOD	Head of Department
GM	General Manager
PPE	Personal Protective Equipment
KKS	Kraftwerk Kennzeichen System (Power Plant Classification System)
KV	Kilo Volt.
v	Volt
TEMP	Temperature.
V	Volt
KV	Kilo volt

2.6 Roles and Responsibilities

General cleaning services are responsible to keep the state of the plant in a clean and safe condition according to health and safety requirements

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3. Related/Supporting Documents

3.1.1 Records Generated

RECORDS and HISTORY Requirements

- Safety, Health and Environmental procedures
- Occupational health and safety hazard identification and risk assessments
- Working at height fall protection plan
- Occupational health and safety incident management
- Management of substance abuse in working place
- Lifesaving rules
- Behavioural safety observations
- Eskom vehicle safety specification
- Waste management and disposal procedure
- Oil/ chemical spill clean-up and rehabilitation procedure
- Vehicle inspection checklist
- Method statement – bunker lashing
- Unblocking of chute procedure
- Audit procedure
- Training procedure
- Fall protection plan procedure
- SHE plan
- PPE policy procedure
- Floor washing procedure (boiler and turbine)
- Control of access permit procedures

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4. DOCUMENT CONTENT

4.1 DETAILED WORK INSTRUCTION

Boiler, Turbine and Outside Plant:

Section A	RFT area (monthly)	3 rd floor area and below (5 day cycle)
	<ul style="list-style-type: none">• Cleaning roof and area around the tank.• Cleaning all lights and plugs.(RA is required)• Cleaning all beams.• Cleaning all gratings and remove dust between gratings.• Cleaning all pipework and valves• Cleaning all handrails• Cleaning all stairways• Cleaning on top and sides of lift.(RA is required)• Cleaning the sides of the building.• Remove all scrap	<ul style="list-style-type: none">• Top of the boiler (Unit off load)• Boiler side walls.• Landings and stairways• All pipe work.• Walkways and handrails.• FD fans• Floors• Portable tanks• Furnace sooth-blowers structures• Boiler associated valves• Boiler auxiliaries cable racks• Sweeping and cleaning the floor.(daily)• Removing scrap lying around boiler.(daily)
Section B	2 nd floor area and below (5 days cycle)	1 st floor area and below (5 day cycle)

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	<ul style="list-style-type: none"> • Sooth blowers • Pipework and valves. • Handrails. • Stairways. • Sides of the list shaft. • Sides of the Boiler • Gratings and remove dust between gratings. • Dusting of lights. • Beams by vacuuming and dusting. • Cables and cables racks. (RA is required) • Cleaning all instrument and electrical components. • Boiler ductings. • Sweeping and cleaning the floor. • Cleaning and removing of dust around Boiler. (daily) • Removing scrap lying around the boiler.(daily) • Air heaters sweeping and cleaning the floor. • DA storage tanks 	<ul style="list-style-type: none"> • Pipework and valves. • Handrails. • Stairways. • Gratings and remove dust between gratings. • Walkways. • Dusting of lights.(monthly) • Beams. • Cables and cables racks. • Instrument and electrical components. • Ductings. (daily) • Remove Scrap lying around • Cleaning of total milling plant Structures and associated equipment (Units 1 – 9). • Tube mills: inside sound hoods • Cleaning on top of all mills. • Diesel Generators and surrounding areas. • Oil and coal spillages • Total basement floor area. • Fans, pumps and motors. • Coolers, filters and heaters.
Section C	Boiler and Turbine Ground Floor	Outside Plant (daily)

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	<ul style="list-style-type: none"> • H2 production plant H2 and surrounding area(daily) • Diesel Generators and surrounding areas. • Tube mills: inside sound hoods • U1-U9 CEP pits and underneath Condensers. • Open trenches on the boiler and turbine floor • Diesel generator fuel tank bay • U1-U9 boiler and ESP transformer bays. • Clinker fragments removal from the boiler bottom ash hopper upon breaking of the clinkers • U1-U9 Generator and Unit transformer bays • Water treatment plant • Temporary oil storage house • Sand blasting house • Compressor Plant House 	<ul style="list-style-type: none"> • CW pump houses east and west including the CW screens inspection and cleaning. • Storm water trenches, sumps and pits. • Cleaning of all roads inside the Power Station and parking areas. The road surrounding the Power Station entrance, starting at the turn-off to the weighbridge to the T- Junction. • DHP floor U1-U9 and associated trenches. • Coal bunkers floors (U1-U9), • Incline conveyor belt structure, • Cleaning of coal spillages, • Cleaning of coarse and fly ash sluiceways • Ash lines crossover valves pit and associated trenches • Clinker fragments removal from the boiler bottom ash hopper upon breaking of the clinkers.
Section D	All electrical/switchgear boards/room floor (monthly)	
	<ul style="list-style-type: none"> • 6.6 kV station board 1 • 6,6 kV station board 2 • Equipment rooms 1-9 • Battery rooms 1-9 • Excitation transformer rooms 1-9 • Unit board 1-9 • DC station board • Sub Station board • Water plant board • Water plant battery room • Coal plant board 1 & 2 	<ul style="list-style-type: none"> • Coal plant boards at coal stock yard • Battery rooms 1 and 2 (220V) • Communication room area • Lake fin 380V board • Effluent plant board • Water plant transformer no. 3 (380 volt board) • East and west clarification plant board • The Ash Water Return 400V electrical board

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	<ul style="list-style-type: none">• Sewerage plant board	
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Note that:

Cleaning materials and equipment relevant to the contract are to be supplied by the *Contractor* E.g. rags, feather dusters, ride on sweepers & vacuum machines, wheelbarrows, brooms, spades, refuse bags, all cleaning chemicals (soap, polish, etc.) to be provided by the contractor.

N.B. It is a specific condition of this contract that cleaning will be done over Weekends as well. The tenderer to make provision for ample overtime to ensure this function

4.2 Specific Safety Requirements. (P .P.E.)

- a. Safety Glasses/Goggles.
- b. Full Overall.
- c. Ear Protection.
- d. Safety Shoes/Boots.
- e. Safety Gloves.

5. ACCEPTANCE

This document has been seen and accepted by:

Name	Designation
Vincent Makhubedu	Manager Operating Support
Shoki Mbowane	Operating and Production Middle Manager(Acting)

6. REVISIONS

Date	Rev.	Compiler	Remarks
February 2020	0	Dinah Mahlangu	Compiler
October 2022	1	Dinah Mahlangu	Amendment of additional SOW

7. DEVELOPMENT TEAM

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

- Operating Support Team (Dinah and Caleb)

8. ACKNOWLEDGEMENTS

Special thanks to the development team for their contribution in compilation of this procedure.

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