

	Specification	Medupi Power Station
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Title: Medupi Power Station Civil & Site Facility Maintenance
Document Identifier: 240-101989516

Alternative Reference Number: N/A

Area of Applicability: Medupi Power Station

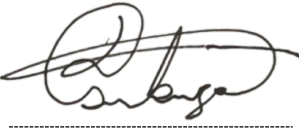


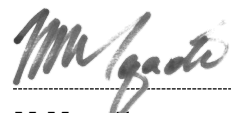
Functional Area: Mechanical Maintenance Department

Revision: 2

Total Pages: 21

Next Review Date: December 2028

Disclosure Classification: Controlled Disclosure

Compiled by	Supported by	Functional Responsibility	Authorized by
			
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Date: 2024/05/22	Date: 2024/05/22	Date: 2024/05/22	Date: 2024/05/30

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1. Introduction

Coal fired powered plant are a fundamental part of South Africa's power generation. Medupi Power Station is one of the largest coals fired power station in South Africa and is in the Limpopo Province, approximately 21 kilometres south-west of Lephalale Town previously known as Ellisras.

Infrastructure maintenance in a power station is essential for ensuring the reliability, safety, efficiency, and longevity of power generation and distribution systems. It directly impacts the quality of life, economic productivity, and the overall functioning of modern societies. As such, investing in maintenance is a fundamental aspect of responsible power station management.

Medupi Power Station Management has decided to partner the specified maintenance service function to a suitably qualified, experienced, and well-established Partner. This document describes the detail of the Scope of Work for specific areas of power plant standards, quality, requirements, and specifications. The station is expected to perform at 92% UCF, 6% PCLF and 2% UCLF, and therefore facility maintenance must be in line with this performance. It is important to align this with Medupi culture of safe, tidy, and harmonious work environment.

The maintenance of civil and structural components within a coal-fired power station is a critical aspect of ensuring the safety, efficiency, and longevity of the facility. These components include a variety of structures and systems such as the main plant building, cooling towers, chimneys, coal handling and storage areas, water treatment plants, roads, earthworks, water dams and administrative buildings. Given the harsh and often corrosive environment of a coal-fired power station, alongside the mechanical stresses imposed by the operational activities, a robust maintenance strategy is essential.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to define Maintenance Service requirements for Civil & Structural requirements including general buildings for Medupi Power Station facilities.

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2.1.2 Applicability

This document is applicable to all Civil & Site Facility Services at Medupi Power Station including balance of plant and Units.

2.1.3 Effective date

The effective date of this document is as per the date and signature of the authoriser as indicated on the cover page of this document.

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] Act No 85: Occupational Health and Safety Act & Regulations.
- [2] Act No 102: National Key Points.
- [3] ISO 9001: Quality Management Systems.
- [4] 32-136: Construction, Safety, Health, and Environmental Management in Eskom.
- [5] 34-1168: Colour coding, symbolic safety signs and demarcation.
- [6] 32-37: Eskom Substance Abuse Procedure.
- [7] 36-681: Eskom Generation Plant Safety Regulations.
- [8] 32-418: Working at Heights Procedure.
- [9] 240-90508511: Medupi Power Station Environmental Requirements for Contracts and Suppliers Procedure.
- [10] 240-97020108: Medupi Power Station Maintenance Contracts User Requirement. Specifications
- [11] 240-62946386: Eskom Vehicle and Driver Safety Management Procedure.
- [12] 240-62196227: Eskom Life Saving Rules Standards.
- [13] 237-419-EVN-PC: Medupi Power Station Waste Management.
- [14] 240-99527377: Inspection manual for civil works at Eskom's power stations, March 2019.
- [15] 40-86232481: Medupi Power Station Buildings Roads and Structures Maintenance Strategy.
- [16] 240-144332407: Guideline for Eskom Power Station Concrete Remedial Works.
- [17] Construction Regulations, 2014.

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2.2.2 Informative

- [18]36-942: Arc Flash Protection Specification.
- [19]36-556: Work Instruction – Overtime.
- [20]200-9739: Medupi Emergency Preparedness and Response Procedure Site Emergency Plan.
- [21]240-97020108: Medupi Power Station Maintenance User Requirement Specification.
- [22]240-44974011: Medupi Power Station Routine Work Management
- [23]240-46554063: Medupi Power Station Safety Health Environmental and Quality Policy.
- [24]237-0081: Post Mechanical Maintenance Requalification.
- [25]240-100523028: Medupi Power Station Labelling User Requirement Specification.
- [26]240-86851633: Medupi Power Station Foreign Material Exclusion.
- [27]240-101676185: Medupi Power Station Management of Standby.
- [28]240-94144946: Medupi Power Station Test Equipment Calibration User Scope of Work Specification.
- [29]32-726: S.H.E. Requirements for the Eskom Commercial Process.
Note: See Annexure B: SHE Requirements for Tender Enquiries.
Annexure C: SHE Tender Evaluation and Scoring Card.
Annexure D: SHE Post-Contract Reviews.
- [30]ESK PB AAQ3: Interior Specification for Eskom
- [31]ESK AM AAA1: Corporate Identity Manual
- [32]NMP47-7: Application of KKS Plant Coding.

2.3 Definitions

Definition	Description
<i>Contractor</i>	Service provider contracted for supplying specific services to Eskom Medupi Power Station.
<i>Employer/ Client</i>	Eskom Medupi Power Station.
Ad hoc	The meeting was formed for one particular reason.
Priming	The application of a coat of white paint (usually zinc or lead) to a sized canvas in order to prepare it for painting.

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Definition	Description
Enamel	Paint that air dries to a hard, usually glossy, finish, used for coating surfaces that are outdoors or otherwise subject to hardware or variations in temperature.
Inspection	Activities which by means of examination, observation, or measurement, determine the conformance of material, parts, components, etc. to predetermined specifications and quality requirements.
Plant/ System Engineer	The person designated by the <i>Employer/Client</i> as having engineering responsibility for the Power Station being inspected. / A person designated by the <i>Employer/Client</i> as having engineering responsibility for a specific plant area within the Power Station.

2.4 Abbreviations

Abbreviation	Explanation
ECSA	Engineering Council of South Africa
CIDB	Construction Industry Development Board
GB	General Building
CE	Civil Engineering
HDPE	High-density Polyethylene
ISO	International Standards Organisation
PSR	Plant Safety Regulations
PVC	Polyvinyl Chloride
ROD	Record of Decision
SANS	South African National Standards
SHE	Safety Health and Environment
TLB	Tractor-Loader-Backhoe
SHEQ	Safety Health Environment and Quality
PPE	Personal Protective Equipment
ITP	Inspection and Test Plan
WUL	Water Use Licence

2.5 Roles and Responsibilities

The *Contractor* shall ensure that:

- The Employees of the service provider shall comply with Eskom's policies and site regulations. The Medupi Maintenance User Requirement Specification (240-97020108) aims

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to normalise contract agreements and as such should be used as the point of departure on which this service contract will be based.

- Workmanship shall, always, be of a grade accepted as the best practice of the particular trade involved and as stipulated in written standards of recognised organisations or institutions of the respective trades, except as exceeded or qualified by the specifications. The *Employer* shall determine the acceptability of workmanship.
- The *Contractor* shall provide a complete Quality Assurance plan in accordance with the requirements of ISO 9001: 2008 to the *Employer* for approval. This plan must ensure an integrated quality service as part of the contract. Execution of all quality related activities, including inspection and test plans compilation and execution, spares material quality inspections and all quality related record keeping is part of the *Contractor's* scope of work.

2.6 Process for Monitoring

The *Employer* will establish a sound contract management principle.

2.7 Related/Supporting Documents

- GVLIR 0007: Safety health and environment Specifications for *Contractors*.
- SANS 1433: Electrical Terminals and Connectors.
- SANS 1700: Fasteners.
- 41-981: Specification for surface preparation.
- SANS 1200: Code of practice - Standardised specifications for civil engineering construction.

3. Scope of work

3.1 General Requirements

3.1.1 Adherence to Eskom generic policies

All *Contractor Employees* shall comply with the Medupi Maintenance Contracts User Requirement Specification, including non-use of cell phones in restricted areas, adherence to Eskom's life-saving rules, adherence to Generation Occurrence Management Procedure, no smoking policy, etc.

- The *Contractor* shall keep the consignment of stock at Medupi Power Station for daily maintenance services.

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- The Contractor must quote on these items on cost per item.

3.1.2 Provision of Manpower

The successful *Contractor* shall utilise / provide skilled and suitably qualified staff as governed by Medupi Maintenance Contracts User Specification Requirements with current experience in the following:

- Quality Management Control and Assurance as per ISO Standards.
- Staff must meet minimum requirements of Eskom job descriptions, with additional requirements specified. (Eskom job descriptions are attached).
- Occupational Health and Safety Act 85/1993 and (SHE) Standards.
- BOM compilation.
- Procedure writing.
- Familiarisation and adherence of *Employer's* SHE goals and initiatives.
- Specialised application painting/ sealant works.
- Able to train the staff to meet the requirement of the scope.

The *contractor's* technical qualified team member required to successfully execute the tasks are listed in the table below.

Table 3.1: Contractor's Technical team

- Manager (Site Manager) x 1** – To manage day to day operations of the by effectively managing the human and finance resources and attend all meetings.
- Site Supervisor x 2** – Supervise the team of different skills, from plumbers, all team of in Medupi maintenance, planners, clerk The supervisor must be technically inclined to resolve technical problems that the artisans are failing to solve. The supervisor will be responsible for compiling work instructions and QCP's for all activities/tasks/jobs carried out.
- Clerk x 1** – Clerk will be responsible for the administrative work for the contract as well as the timesheets.
- Planner x 1** – Planner will be responsible for the control/planning/opening of job cards/jobs that are brought to the workshop, managing spares, and ensuring availability of spares and equipment's.
- Safety Officer x 1** – To effectively manage the SHEQ Requirement and ensure Site Compliance to Eskom SHEQ Processes
- General Workers x 4** – they will be required to perform some work in the plant if the need arises, housekeeping after work.
- Storeman x 1** One of the storemen that will monitor material.

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- h) **Semi-Skilled workers x 4**
- i) **Civil Artisans x 4**
- j) **Plumbers x 4**
- k) **Welder x 2** - to perform welding works on the plant structure.
- l) **Operator/Forklift Driver or Truck Driver x 1** – An operator is required for operating of mobile cranes, overhead cranes, forklifts (up to 27 tons), cherry picker, TLB Plant.
- m) **Civil Technician x 2**
- n) **Land Surveyor** as when required.
- o) **Civil Specialist/ Engineer** as and when required.

3.1.3 Contractor's Management, Meetings and Key People

- The *Contractor* shall be required to do safety induction prior to start any work on site.
- The *Contractor's* safety file must be approved before any work commence on site.
- The *Contractor* shall be required to attend contract monthly meetings to address contract related matters.
- The *Contractor* is to be represented on monthly executive SHEQ meetings by company executives.
- Other contract related meetings shall be communicated to the *Contractor* on arrival to site.
- The Contractor shall attend work management meetings.

3.1.4 Plant and Material

The *Contractor* shall be responsible for the supply of all materials unless specified elsewhere in a form of instruction. Where a material is specified in this document, the material supplied shall be exactly in accordance with the specification. If the Contractor intends to use similar or equivalent materials the Contractor shall apply in writing to the Project Manager for review and acceptance thereof.

- Spares and materials required for repairing, maintaining, replacing and new fitting will be provided by the *Contractor*.
- Consumables will be supplied by the *Contractor* (e.g., Pipe fitting, door hinges, paints, and spares).

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- The contractor will supply the required spares and material which the employer cannot supply.
- Any damage caused to existing insulation and cladding is repaired by the *Contractor* at his own cost prior to take over.

3.1.5 Equipment

The Contractor shall provide small hand tools used for the trade and equipment for preparation of concrete for painting i.e., high pressure washer and etc.

The *Contractor* on request and with agreement with the services manager shall provide the following equipment for Medupi Power Station Facility Maintenance purpose and shall be operated by authorised personnel:

- Forklift.
- Cherry picker.
- TLB.
- Bobcat.
- Honey sucker
- Water tanker and etc.
- Grader
- Earth moving equipment.

3.1.6 Management Reporting

- The *Contractor* is to be represented at any ad-hoc meetings that may arise in order to address any production or safety related matters.

3.1.7 Quality and Documentation Control

- The *Contractor* has to ensure that all measuring and testing equipment are calibrated in accordance with Medupi Power Station Test Equipment Calibration User Scope of Work Specification (240-94144946) at all times and proof thereof must be readily available.
- The *Contractor* shall utilise the *Employer's* quality documentation management system and processes. The *Contractor* complies with the applicable quality standards and requirements relative to the required scope of service.
- All Quality References and Standards as stipulated in this document will be adhered to.

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3.1.8 Training

The *Contractor* shall attend all trainings in line with the service, statutory & other business requirement training as provided by the *Employer* when required it is necessary.

3.1.9 General Requirements

- The *Employer* and *Contractor* in this scope of work shall commit towards the following:
 - Continuous improvement of Medupi Power Station.
 - Continuous cost reduction.
 - Spare management.
- The *Contractor* immediately reports all injuries as well as any threat to health or safety of which it becomes aware of on the site of the *Employer*.
- The contract entered into with the *Contractor* is non-exclusive and work included in this contract can only be performed upon receipt of a task order.
- Equipment to be used on site must comply with Medupi Maintenance User Requirements Specifications (240-97020108) latest revision.
- Painting colours shall comply with corporate identity manual (ESK AM AAA1)
- The *Contractor* shall complete a history data for each notification executed.
- The *Contractor's* performance evaluation shall be done during ad hoc meetings between the *Contractor* and the *Employer* on a monthly basis.
- Before any work start on site the *Contractor* is responsible to submit their Safety File to the *Employer* for review and acceptance.
- The *Contractor* shall carry out tasks as described in the scope of work on a normal day to day maintenance.
- A crew for day-to-day maintenance and emergency/standby work is required and must be priced in.
- Overtime will be worked as and when required according to Overtime Work Instruction (36-559) and will be invoiced separately.
- The *Contractor* should include the price list for day-to-day maintenance, overtimes, and standby allowance (Give rates for normal overtime, weekends, holidays etc.).
- The *Contractor* to submit the construction regulation file, safety file and quality control plans before commencement of contract.
- The *Contractor* will provide with the tender a quality management program in accordance with ISO 9001 which will comply with Eskom quality management system.

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- The *Contractor* together with the tender documentation shall provide Eskom with an action that has to be in place to comply with the Construction Regulations. This shall include all additional costs that the *Contractor* will incur to comply with this regulation.
- The *Contractor's* Site Manager to ensure that a weekly standby roster is updated at all times.
- The Contractor on standby shall report to relevant shift manager within 45 minutes after been called out.

3.1.10 On-site Support Services

The *Contractor* shall be required to assist the client onsite as and when required to execute the following tasks:

- The *Contractor* shall be required to comply with Medupi Power Station standby procedure.
- Ensure that the required staff are always available on an as and when required.
- The *Contractor* shall keep a minimum level of paint and consumables.
- Preventative maintenance.
- Corrective maintenance.
- Comply with Medupi Power Station Routine Work Management Processes.

3.2 General Scope of Work

3.2.1 Paint work

- Prepare concrete surface for painting.
- Prepare steel surface for painting, including but not limited to, using wire brush and or mechanical brush.
- Spot priming defects in pre primed surfaces with zinc chromate primer and apply one undercoat and two alkyd enamel paint on steel.
- Paint pressed steel door frames using enamel paint.
- Demarcation of floors.
- Painting of all building surfaces and bund walls.

3.2.2 Plumbing

- Unblock drainpipes.
- Repair toilets, washbasins, sinks, geyser and etc.
- General plumbing repairs and maintenance.

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- Sewage plumbing and maintenance.
- Repair of bathrooms and dripping taps.

3.2.3 Carpentry

- Repair ceilings. Replace or repair ceiling, doors, door handles, cupboards etc.

3.2.4 Maintenance of building facilities and plant

- Tile walls and floors using ceramic tiles.
- Building repairs (roof, walls, and floors).
- Sealant work
- Fit new locks or replace old ones.
- Move office furniture on site.
- Drain cleaning.
- Handy man jobs.
- Gutters cleaning.
- Any other general building maintenance activities.
- Cleaning of rubble and removing of scraps to designated areas.
- Paving.
- Bund walls.
- Windowpanes and frames

3.2.5 Signage

- Provide, install, and replace symbolic safety signs and road signs where required throughout the station.

3.2.6 Pipe works and this will include excavation on some pipe work.

- Supply, replace and repair PVC and HDPE pipes (sizes 40-600mm), different joint HDPE fittings as per pipe layout i.e., Elbows, T-pieces, Y-pieces, unions, flanges for the above size pipes, joint clamps, seals, washers, bolts and nuts at Ash dump and bottom ash cooling plant.
- Excavation for maintenance on underground pipework and cables.
- Ground Scanning and land surveying

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3.2.7 Access, working platforms and scaffolding.

- The *Contractor* shall inform the *Employer* in advance of all his needs and requirements before and during works. For example, need for removal of equipment which restricts access for the work to be carried out.
- No scaffolding and platforms will be used without having been safety cleared and the documentation completed.
- Scaffolding and platforms will be supplied by the *Employer*.

3.2.8 Access for and interface with other *Contractors*

- During the progress of the work the *Contractor* provides reasonable access to other *Contractors* to execute work carried out on other *Contractors*.

3.2.9 Fabrication and installation

- The *Contractor* shall be required to fabricate or build cupboards, toolboxes and etc. as and when required.

3.2.10 Supply and Services of Temporary Ablution Facilities at Medupi Power Station

The *Contractor* shall provide ablution facilities as and when required where permanent facilities are not available.

3.3 Civil and Structural scope of works

The key areas of Civil and Structural Maintenance are as follows: -

Ensure the integrity of the plant structures inspection and repairs to status quota.

a) Cooling Towers, Chimneys, ACC Columns, and silos:

- Repair surface cracks, concrete spalling, and corrosion.
- Inspection of the structure's integrity.

b) Water Treatment Plants: Critical for ensuring the quality of water used in the power generation process. Maintenance tasks include checking pipes for corrosion, ensuring the integrity of storage tanks, and verifying the proper operation of pumps and filters.

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c) **drainage system:** Maintenance of water dams and drainage systems is critical for operational reliability and environmental protection. Regular inspections detect structural issues and sediment build-up, requiring timely removal and repair to prevent flooding and ensure efficient water flow. Erosion control measures, such as vegetation management and slope stabilization, safeguard against soil loss. Effective maintenance maximizes safety, minimizes downtime, and upholds regulatory compliance, essential for sustained power generation and ecosystem preservation.

d) **Road's repair and inspections:** This involves regular inspections, pothole & crack repairs, and ensuring proper drainage to prevent erosion. It's essential for safe transportation of personnel and equipment, minimizing disruptions, and optimizing operational efficiency.

- Lifting of paving blocks, reinstating, and compacting subsurface and replacing paving blocks.
- Repair potholes by digging out damaged area down to 150mm depth, reinstate subsurface, apply appropriate primer, and apply cold seal Asphalt repair.
- Paint road marking.
- Clearing & grubbing.
- Earthworks for temporary deviations.
- Dust suppression.
- Gravelling and repair of temporary deviations.
- Maintenance of existing road shoulders used as temporary deviations and cleaning of roads.
- Digging of trenches in sandy soils using standard tools.
- Digging of trenches in hard and rocky soils using jack hammers and associated tools and equipment
- Movement of barriers.
- Blading of road by grader.
- Maintenance and Small repairs of access roads on site (repairs include erosion repairs, potholes, culverts, repainting road surface markings and etc...).
- Manhole and manhole cover repairs.
- Maintenance and excavation of deep laying services (main sewer & water lines).

e) **Small concrete works:** To be determined by the System Engineer and/or the Project Manager.

- Maintain manholes and concrete base.
- Preparing, placing, and finishing concrete without steel reinforcing but including shuttering (excluding material cost).

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- Preparing, placing, and finishing concrete with steel reinforcing but including shuttering (excluding material cost).
- Build 220mm double brick wall excluding plastering, including laying of brick force steel reinforcement every 4 courses, (excluding material cost).
- Build 110mm single brick wall with associated pillars as required, excluding plastering, including laying of brick force steel reinforcement every 4 courses.
- Plastering and finishing of brick wall to wood finish, 10-15mm thick.
- Plastering and finishing of brick wall to steel finish, 10-15mm thick.
- Concrete repairs as per System Engineer's specifications.
- Repair or replace Fence.

f) Steel works

- Repair, Replace and fasten steel access ladders (walkways, handrails, grating and cad ladders)
- Repair of steel metal structures by using welding techniques (weld cracks and weld joints)
- Repair of steel loosened bolt connections, bolt torquing and bolt securing.
- Application of steel protective coating – Corrosion protection paint works.

3.4 Safety signs

The Contractor shall supply all Symbolic Safety Signs for the respective areas under this contract as per SANS 1186 with the sign location.

3.5 Codes & standards to be used in the works.

The Contractor is required to adhere to the latest editions of the normative and informative references within this document, all applicable SANS standards and Eskom specifications/standards mentioned throughout this document.

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3.6 Method statement and inspection and test plan

The Contractor shall also submit to the employer for review detailed construction/repair method statements and a quality and inspection test plan prior to the commencement of the Works. The employer will indicate his/her hold and witness points on the ITP. All specified tests and required interventions to be itemised on the ITPs and should be easily linked/referenced to all other technical documents. The Contractor shall provide all required Quality Inspector's required for the inspection of all the Works required by the South African and international standards, codes and regulations, and Eskom standards and guidelines.

For any works that require multiple stakeholders, a PM/CM must be accompanied but a method statement, risk assessment and a QCP/ITP for the task will be deemed sufficient for close out.

3.7 Safety requirements

The Contractor shall ensure:

- Compliance with all requirements of the Occupational Health and Safety Act no 85 of 1993 and its regulations to ensure the health and safety of persons carrying out the Works.
- All employees are medically, physical, and psychologically fit to perform the Works.
- All employees undergo the relevant training as per their function requirement.
- Compliance with Eskom's SHE policy, procedures, standards, guidelines, specifications, and site regulations. Employees shall have a valid medical certificate of fitness specific to the work to be performed.
- Employees are informed of hazards identified in the risk assessment before commencement of Works. The Method Statement shall also be communicated to the employees on this work activity before commencement of Works.
- The emergency rescue plan shall also be communicated to personnel undertaking the Works.
- All safety and health related incidents around site or working areas and threats that pose a danger to one's life or health are immediately reported.
- Sufficient health and safety information as well as resources are made available.
- All employees undergo safety induction on-site.
- All power tools will be inspected as and when required.
- Prescribed PPE for the specified Works shall be always worn. The provision of PPE shall be the responsibility of the Contractor.

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- Correct site drawings are obtained and communicated to the employees undertaking the Works.

3.8 Environmental Requirements

The Contractor shall ensure:

- Appropriate measures shall be undertaken to minimise the generation of dust from work activities.
- All environmental incidents must be reported.
- The work area is kept clean, tidy, and free of waster/rubbish. Waste shall be disposed of in designated bins
- Adherence to Water Use License (WUL 27086983) and Regulation 704 of the National Water Act (Act 36 of 1998).
- Plant and machinery shall be equipped with drip trays. Oil refills for plant and machinery shall take. Place in designated areas

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Langa Zuma	Aux Engineering Manager
Jabulani Mkhathswa	Engineering Manager
Tshepo Sethole	Aux Maintenance Manager
Mahlane Letselane	Turbine Maintenance Manager
Joshua Lekoloane	Boiler Maintenance Manager
Portia Lutumbu	Electrical Maintenance Manager
Rhulani Masingi	Outage Management (Advisor)
Bonolo Mampa	System Engineer (Civil)
Pakgadi Legodi	System Engineer (Civil)
Nice Bahula	Ancillary Services Manager
Bino Ngwenya	Senior Technician
Tendani Mukhuba	Occupational Hygiene Manager
Pieter Myburgh	Process Engineering Manager

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Name	Designation
Tendani Mukhuba	Occupational Hygiene Manager

5. Revisions

Date	Rev.	Compiler	Remarks
March 2023	0	Xola Gubuza	Amendments were made on Medupi Power Station Facility Maintenance Services
April 2024	1	Pakgadi Legodi	The initial scope was limited to general buildings (CIDB – GB) only. The amendments incorporate the civil and structural maintenance (CIDB - CE).

6. Development Team

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

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7. Acknowledgements

Credit is due to all the Medupi Power Station *Employees* who were co-operative and provided input during the drafting of this document.

CONTROLLED DISCLOSURE

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