

 Eskom	Specification	Medupi Power Station
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1. Introduction

A clean plant means that there is no dust, spider webs, coal/ash/oil spillages, bird droppings or any other debris in and around the areas as per scope of work. Plant cleaning must be done on a routine basis.

2. Supporting Clauses

2.1 Scope

This document gives a detailed station cleaning scope of work to enable the Partner to compile and submit a quotation for industrial station cleaning service at Medupi Power Station. The scope of work explains in detail how the station will be cleaned on routine basis, during outage and on request.

2.1.1 Purpose

To define requirements for Station cleaning services at Medupi Power Station. To provide a safe, clean environment to all Medupi employees and partners. This document will ensure that good housekeeping is maintained at Medupi Power Station at all times.

2.1.2 Applicability

This document is applicable to Medupi Power Station Gx and Eskom cleaning partners.

2.1.3 Effective date

This document will be effective from the date of 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] OHSACT 18001:2007 Occupational Health and Safety Act
- [2] 240-90508511 Medupi Environmental Management requirements for Contract and Supplier
- [3] 240-89879083 Medupi Power Station Waste Management

2.2.2 Informative

- [4] 240-114967625 Operating Regulations for High Voltage Systems (ORHVS)
- [5] 240-150642762 Generation Plant Safety Regulation
- [6] 240- Generation Fossil Fuel Firing Regulations
- [7] 237-131-BE-SP Medupi Power Station FFFR Specific

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[8] ISO 14001: 2004 Environmental Management System

2.3 Definitions

Definition	Explanation
Hygiene	Conditions or practices conducive to maintaining health and preventing disease, especially through cleanliness

2.4 Abbreviations

Abbreviation	Description
ACC	Air Cooled Condenser
ACCCT	Air Cooled Condenser Condensate Tank
AP	Appointed Person
BBDV	Boiler Blow Down Vessel
BOP	Balance Of Plant
CRT	Condensate Reserve Tank
CPP	Condensate Polishing plant
FD	Forced Draught air Fan
GO	General Overhaul (outage)
Gx	Generation
HV	High Voltage (> 1000V)
HP	High Pressure
ID	Induced Draught fan
LAR	Limited Access Register
LP	Low Pressure
LPH	Low Pressure Heater
LV	Low Voltage (< 1000V)
OEMP	Operational Environmental Management Plan
ORHVS	Operating Regulations for High Voltage Systems
PA	Primary Air fan
PF	Pulverised Fuel
PJFFP	Pulse Jet Filter Fabric Plant
PPE	Personnel Protective Equipment
PSR	Plant Safety Regulations
RP	Responsible Person
SHEQ	Safety, Health, Environment and Quality
SOW	Scope of Work

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SSC	Submerged Scrapper Conveyor
BEE	Black Economic Empowerment
WR&ZR	Boiler blow down drain valves

2.5 Roles and Responsibilities

The table outlines the line of responsibility, accountability and relevant stakeholders to be consulted and informed.

Responsible	Accountable	Consult	Inform
Contract Supervisor	Service Manager	<ul style="list-style-type: none">- Shift Manager- Aux System Engineer- Aux Engineering Manager	Risk, Procurement, Operating and Engineering
Assurance that all actions listed in this procedure are undertaken (follow up, advice, consultation)	Implementation of this procedure, random reviews and audits for adherence, provide assurance that any deviations will be corrected.	Provide support, advice and communication with outside stakeholders where needed.	Planning and advice

2.5.1 Gate keepers and Criteria (Role and Responsibility)

- The Partner must have at least two years of industrial plant cleaning experience.
- The Partner must have his own equipment and if not must provide a signed letter of agreement with the sub-Partner for full utilization of the equipment, as and when required.
- The Partner to have service and maintenance plan of the equipment's (e.g., last service date and service warranty letter).

2.6 Process for Monitoring

This process will be monitored through internal audits and assessments.

2.7 Related/Supporting Documents

N/A

3. Medupi power station cleaning scope of work

3.1 Scope of Work Requirements

A. Scope of work cleaning of power island

The Partner shall be responsible for the following areas:

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1. **ACC fan Area** – From the HV Yard Road fence to the turbine wall including ACC fans and the surrounding areas.
2. **Turbine Area** – Turbine house, including all plant, pipe work, cables, trenches, tunnels and floors
3. **Boiler Area** – Boiler house and boiler house structures including, boiler house roof, plant items, stairs, stair wells, steel structures, ducting's, gratings, cable tunnels, sumps, floors and the roads surrounding the boiler house structures included.
4. **Fabric Filter plant Area** – Fabric filter plant including, Roof, plant items, structures, gratings, floors, trenches and ducting's.
5. **ID, FD and PA Fan Area** – FD, PA and ID Fans, including plant items ducting's, casings, plant items, cubicles, gratings and ground area surrounding the plant items.

1. ACC fan area			
A.	Areas from the road on the ground level to 5m/l		
NO.	Area To Be Cleaned	Method	Recommended Equipment
1.1	The entire Nicholas Road up to the HV yard fence, underneath ACC fans, transformer yard, CRT.	Sweep road, pick up papers, rubbles	Mobile/ride-on sweeper, brooms,
1.2	ACC fans Gearboxes/Motors loading bay, the area around the storm water drains Blocked drains and trenches.	Sweep road, pick up papers, rubble, removal of debris and tramp material	Brooms, feather dusts, rags, shovels and wheelbarrows
1.3	Handrails, walls, drip trays, tanks and all other equipment installed on the plant	Dust, sweep, remove birds' dung, degrease and pick up rubbish	brooms, used absorbent oil fibre(loose)
B.	Area from 0m/l to 16 m/l underneath the ACC fans		
1.4	Stairwell on both lift and sampler rooms including sample room roof and CRT top. Anion vessels rooms.	Sweep, clear dust, clear spillages and, degrease	Feather dusts, brooms
1.5	ACC Lift and room tower, walkways, Handrails, ACC Ducts, Condensate Ducts and the gutters on the Turbine roof	Dust, sweep, pick up rubbish, clean, degrease and unblock.	Feather dusts, brooms
1.6	ACC fan Motors and gearboxes, walkways between Radiator coolers, and walk way on the out skirt of the fans (East)	Dust, sweep, pick up rubbish, clean and clear oil spillages.	Feather dusts, brooms
NOTE			

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<p>a) No cleaning fluid/water is to enter into the tanks or onto motors</p> <p>b) Care should be taken when cleaning on the running motors and pumps</p> <p>c) Open electrical panels not to be cleaned</p> <p>d) Obtain LAR for relevant plant cleaning and obtain keys of required restricted and prohibited areas.</p> <p>e) Do not climb on any plant.</p> <p>f) Clearing of spillages in all the areas should be done as and when required.</p>			
2. Turbine area			
A.	Areas from the roof to 20.5 m/l		
No	Area To Be Cleaned	Method	
2.1	Roof top gutters, floor, stair ways and lifts	Pick up rubbish, unblock gutters, sweep and clean stair ways.	
B.	Areas from 20.5 down to 16 m/l		
No	Area To Be Cleaned	Method	
2.2	Feed water tank and piping, walkways, stairs	Pick up rubbish, dust, sweep and clean all walkways and stairs.	Feather dusts, brooms
C.	Areas from 16 m/l to 11 m/l		
No	Area To Be Cleaned	Method	
2.3	LP bypass valves, LP bypass hydraulic system drip trays, pipe work system, floor gratings, stairs, passages	Dust, pick up rubbish, clean spillages, sweep, empty dust bins, separate waste.	Brooms, feather dusts, used absorbent oil fibre(loose)
2.4	Ejectors, pipe work, floor, gratings, stairs	Dust, pick up rubbish, clean and sweep.	Brooms, feather dusts
D.	Areas from 11 m/l down to 9.5 m/l		
NO	Area To Be Cleaned	Method	
2.5	Turbine floor, ACCCT tank, Stator coolant tank, pumps, LP heater 2&3 tanks, vacuum breakers, LP exhaust and pipe work system.	Dust, pick up rubbish, clean and sweep.	Feather dusts, brooms, used absorbent oil fibre(loose)
E.	Areas from 9.5 m/l down to 5 m/l		

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NO	Area To Be Cleaned	Method	
2.6	HP heaters; leak-off piping, floor gratings and pipe work system. Feed water regulating station. Turbine lube oil room	Pick up rubbish, dust, clean and sweep. Sweep, polish, remove dust	Feather dusts, brooms, used absorbent oil fibre(loose)
2.7	Air Ejector condenser, CPP plant, valves and piping area. Stairs and walkways.	Dust, sweep, remove birds' dung, degrease, and pick up rubbish	Feather dusts, brooms, used absorbent oil fibre(loose)
F.	Areas from 5 m/l down to 0 m/l.		
NO	Area To Be Cleaned	Method	
2.8	Boiler feed pumps, LP heater 1 tank, stator coolant pumps, forced air compressor, Drain flash tank, gland steam piping, Cooling water loop 1 system.	Pick up rubbish, dust, clean and sweep.	Feather dusts, brooms.
G.	Areas from 0 m/l down to -5 m/l.		
NO	Area To Be Cleaned	Method	
2.9	All pipework, boiler feed pump purifier system, Cooling water loop 2, CPP plant, LPH drain pump, seal oil system, condensate transfer pumps including the cable tunnels.	Pick up rubbish, dust, clean and sweep.	Feather dusts, brooms.
3. Boiler area			
A.	Area from roof top down to 99 m/l		
NO.	Area To Be Cleaned	Method	
3.0	Roof top gutters, Goods & passenger lifts, lift stairwells up to Zero-meter level.	Pick up rubbish, unblock gutters, and sweep clean the stair wells, remove dust.	
3.1	Re-heater safety valves, Super-heater inlet header, separating vessels pipe work, collecting vessels vent pipes, star distributor, all pipe work, All, handrails, gratings, ducts, pipe work and steel floor.	Pick up rubbish, sweep, dust and empty the dust bin.	Feather dusts, brooms

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B.	Area below 99 m/l down to 96m/l		
3.2	Re-heater safety valves, Super-heater inlet header, separating vessels pipe work, collecting vessels vent pipes, star distributor, all pipe work and steel floor.	Pick up rubbish, sweep, dust and empty the dust bin.	Feather dusts, brooms
C.	Area below 96 m/l down to 91 m/l		
3.3	All Ducts and pipe work, Boiler walls, hangers, Supports, walkways and handrails.	Pick up rubbish, sweep, dust and empty the dust bin.	Feather dusts, brooms
D.	Area below 91m/l down to 87 m/l		
3.4	HP bypass and re heater safety valves hydraulic station (LH and RH), Fire water head tank, Collecting vessel, Re heater pipe work, Soot-blowing station, all pipe work system.	Clean oil spillages, empty the oil bins, remove greasing, sweep, dust, pick up rubbish, clean steel floor, steps and walkway and empty the dust bin.	Feather dusts, brooms
E	Area below 87 m/l to 84 m/l.		
3.5	All Ducts and pipe work, lance soot-blowing valves/Dampers, motors, Gearboxes, Boiler walls, walkways (gratings/steel) and handrails. Collecting vessel and pipe work.	Remove dust, remove rubbish/fibre, sweep, and clean oil Stains/spillages.	Feather dusts, brooms
F	Area below 84 m/l down to 80 m/l.		
3.6	HP bypass spray water valves, Super heater 2 headers and pipe work, Lance soot blowing, walkway, steps steel floor, handrails and all steam pipe work.	Sweep, clean, dust, and pick up rubbish.	Feather dusts, brooms
G	Area below 80 m/l down to 77 m/l.		
3.7	HP bypass Re-heater 1&2 pipe work, Re-heater spray water, Lance soot-blowing, spray-water regulating station, Super heater 1 & 2 pipe work and header.	Dust; remove rubbish, sweep, and empty dust bin.	Feather dusts, brooms

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3.8	All steam pipe work system, steel grating floor, handrail and walkway.	Dust, sweep, and remove rubbish.	Feather dusts, brooms
H	Area below 77 m/l down to 74m/l		
3.11	HP bypass tap-offs, Super-heater 3 pipe work and header, Super-heater 1 pipe work, Lance soot-blowing, Re-heater 2 inlet header and spray-water station. All steam pipes.	Remove rubbish, clean, dust and sweep grating floor.	Feather dusts, brooms
I	Area below 74 m/l down to 70 m/l.		
3.12	Super-heater, HP bypass spray-water, HP vent station, Re-heater spray-water, Super –heater 3 inlet header, Hot re-heat outlet pipe and lance soot-blowing.	Remove dust; pick up rubbish and empty dust bin.	Feather dusts, brooms
J	Area below 70 m/l down to 63 m/l		
3.13	Hot Re-heat pipes, Soot-blowing valve, Re-heater spray-water station, Re-heater vent station, and Circulating pump leak-off tap off, WR&ZR suction, Super-heater 1.2 outlet HP bypass line to Cold re-heat.	Remove dust, pick up rubbish, clean floor gratings, walkway, handrails and steps.	Feather dusts, brooms
K	Area below 63 m/l down to 59 m/l.		
3.14	Circulating pump re-circulating line, End of collecting vessel, Re-heat drain station. Super- heater 1 inlet header, Super-heater spray-water station, star distributor.	Remove Dust; remove rubbish and empty dust bin.	Feather dusts, brooms
L	Area below 59 m/l down to 48 m/l.		
3.15	Circulating pump flow orifices, sub- cooling lines, FD fans suction screens, Potable head tank and pipes. All areas not accessible through walkways or not reachable by dusting sticks.	Pick up rubbish, sweep, dust and empty the dust bin. External cleaning required.	Feather dusts, brooms

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M	Area below 48m/l down to 43 m/l.		
3.16	Super heater drains station. HP bypass and Super heater pipe work, circulating pump pipe work, Fire station, fire pumps, Bunker conveyors, motors and gearboxes.	Sweep, dust, remove rubbish, removes spillages, remove grease, clear coal.	Feather dusts, brooms
N	Area below 43 m/l down to 33 m/l.		
3.17	Secondary and tertiary air pipes, PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, propane gas pipelines and control valves Circulating pump pipe work.	Remove Dust, remove oil stains, scrap oil sludge, empty drip trays and clean oil /PF/spillages.	Feather dusts, brooms, and Vacuum
O	Area below 33m/l down to 28m/l		
3.18	Mill 50 firing. PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, drip trays, PF ducts and dampers, Chiller tank,	Remove dust, empty drip trays and clean oil/ PF spillages.	Feather dusts, brooms, and Vacuum
3.19	Rotating Air heaters, drive motors, air heater Gas outlet duct	External cleaning i.e., Clearing spillages, removing oil stains and rubbish. Empty the dust bin.	Feather dusts, brooms, and Vacuum
3.20	Mill 20 PF pipes.	Remove Dust, remove rubbish.	Feather dusts, brooms, and Vacuum
P	Area below 28m/l down to 24m/l		
3.21	Mill 40 firing. PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, drip trays, PF ducts and dampers, Mill 30 PF pipes, fuel oil lance station, Mill bunker body, secondary air heater soot blowers, HP bypass and Spray water tap-off system.	Remove dust, empty drip trays, and clean oil and PF spillages.	Feather dusts, brooms, and Vacuum

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Q	Area below 24 mℓ down to 20 mℓ.		
3.22	Mill 30 firing. PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, drip trays, secondary air and PF ducts and dampers. Circulating pump, circulating pump pipe work, WR & ZR warming line valves. Circulating pump vent station tap-off, duct line between BBDV and Condensate tank.	Remove dust, empty drip trays, clean oil and PF spillages.	Feather dusts, brooms, and Vacuum
R	Area below 20 mℓ down to 16 mℓ.		
3.23	Mill 20 firing. PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, drip trays, secondary air and PF ducts and dampers. Steam air Pre- heater and valves.	Remove dust, sweep, empty drip trays, and clean oil and PF spillages.	Feather dusts, brooms, and Vacuum
S	Area below 16 mℓ down to 12 mℓ.		
3.24	Mill 10 firing (level 1 burner). PF pipes, oil burner boxes, oil burner pipelines and associated cables and control cubicles, Fuel oil integrator stations, drip trays, secondary air and PF ducts and dampers. WR & ZR valves to BBDV, BBDV, Primary air tempering air dampers, balancing line. FD fan inlet dampers. Mill Coal feeders, propane gas station, Auxiliary steam pipe and regulating station.	Sweep, dust, and remove oil / coal/PF spillages, empty drip trays. Empty dust bin. Unblock feeders.	Spades, wheelbarrows, brooms, feather dusts.
T	Area below 12 mℓ down to 0 mℓ.		
3.25	Saturator drain tanks, collecting vessel sub-cooling valves, Feed water drain to BBDV, Radial ventilation	Remove Dust, remove rubbish, empty dust bins, sweep, clear oil/coal spillages and remove	Feather dusts, brooms, and Vacuum

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	fans, Auxiliary steam header, PF ducting.	obstructions from suction screens.	
3.26	Boiler condensate tank, boiler witness drains, economiser, and evaporator drains.	Remove Dust, remove rubbish, sweep, and unblock drains.	
3.27	Saturator drain pumps, control air receiver tanks, blocked drains.	Remove Dust, clear ash/coal/oil spillages, remove oil stains, remove rubbish, empty dust bins, floor washing, and unblock drains.	
3.28	Mills, internal and external, All Mill feeders, piping system, including cooling system, All Mill lubrication and jacking system, Mill gearboxes, Grease system, girth gear and Seal air fans.	Remove rubbish, clear oil/coal spillages and remove oil stains.	
3.29	Mill rejects box.	Removal of the coal rejects from the Mills rejects box.	Spades and wheelbarrow High pressure vacuum machine
3.30	PA, FD and ID fans Lubrication systems, Fans casing, pedestals, Bearings, Motors, Fans cooling pipes and oil tanks. Conditioning plant.	Remove Dust, remove oil stains, clear oil spillages, and remove rubbish	
3.31	Hydraulic power pack for start-up vessel discharge valves, Hydraulic power pack for Aux steam reducing station/Mill reducing station valves (passage between boiler & turbine left side), next to Boiler condensate booster pumps.	Clean oil spillages, empty the oil bins, remove greasing, sweep, dust, vacuum, pick up rubbish, clean steel floor, steps and walkway and empty the dust bin.	
3.32	All staircases from 99 metre level to zero-meter level.	Remove dust, sweep, pick up rubbish.	
3.33	Station waste bins	Separate waste according to its category.	Spotters
3.34	SSC emergency off loading	Remove coarse ash by means of tipper truck and skid steer loader.	
4. Pulse jet fabric filter plant area.			
NO.	AREA TO BE CLEANED	METHOD	RECOMMENDED EQUIPMENT

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4.1	Area around the boiler and (PJFFP) Pulse Jet Fabric Filter plant, Hoppers, pipework, floors	Sweep, wash, clean, clear ash spillages, remove rubbish, dust, and clear oil spillages, Vacuuming of blocked hoppers and pipework.	Brooms, wheelbarrows, bobcat, Vacuum machines, tipper truck.

5. ID, FD and PA fan plant area.

	Area To Be Cleaned	Method	Recommended Equipment
5.1	FD fan area PA, FD and ID fans Lubrication systems, Fans casing, pedestals, Bearings, Motors, Fans cooling pipes and oil tanks. Conditioning plant.	Remove Dust, remove oil stains, clear oil spillages, and remove rubbish	
5.2	Ash Plant Air conditioning fan yard, Switchgear rooms basement, ID fans casing, bearing and motors, cooling water and lube oil system and pipes, ID fans pedestals, and pipe trenches	Sweep, remove rubbish /debris, empty dust bins, Dust, clear rubbish/water, clear oil spillages/stains, and chemical clean pedestals	
5.3	Smokestack floor, area around and the ducts from ID fan to the smokestack	Pick up rubbish/papers, Dust/sweep floor, dust and clean the duct	

NOTE

- a) Care should be taken on rotating plants.
- b) Care to be taken when washing in the vicinity of electrical motors.
- c) No tampering with instruments is allowed.
- d) All ash and coal must be removed from paving and floors before using water for floor washing.
- e) The Partner shall supply water pipes and hoses for all washing activities on the plant.
- f) For all the areas that are not accessible through walkways, a scaffold will have to be built.
- g) Disposal of clean-ups.
 - All spillages must be cleared within a reasonable time frame.
 - All clean ups must be done in a controlled manner.
 - All waste must be separated according to their category.

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B. Scope of work (outside plant/bop) daily cleaning

The Partner shall be responsible for the following areas:

- a) Fuel Oil Area off loading, storage and pumping areas
- b) Switchgears, Substations, Equipment rooms, HVAC rooms And Workshop Area
- c) Auxiliary Cooling Plant Area
- d) Water Treatment Plant Area
- e) Auxiliary Boiler Area
- f) Compressor Plant Area
- g) LP Gas and Hydrogen Plant Area
- h) Clean And Dirty Recovery Dams Area
- i) Sewage Treatment Plant and Pump Station
- j) Motor vehicle parking areas
- k) Power island grounds
- l) Roads

	Area to be cleaned	Method	Recommended equipment
l) Fuel oil			
1.1	Fuel oil pump house stations (all the pumps, pipes, heaters, components and drains inside), Fuel oil tanks house, Stair wells, Fuel oil drains/pits station, and fuel oil interconnecting pipes, including the slop tank area.	Remove dust, sweep floor. Degrease oil stains, clear oil spillages, remove rubbish and clear dust bins	
1.2	Main fuel oil storage tank area including the staircases, the bund wall, the drains, pipework.	Remove dust, sweeping. Unblock drains	
1.3	Fuel oil off-loading area - all pumps, pipes, filters, valves and fuel oil drains/pits, sumps slop oil area, oil separator, floors, drip trays.	Dust, sweep, remove/degrease and scrub oil stains, clear oil spillages remove rubbish waste and pick up rubbish.	
1.4	Fire protection equipment - Foam stations, Fire Hydrant systems and LV rooms basement.	Dust, sweep, pick up rubbish and empty the bin.	

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Kindly note that fuel offloading of road tanker, to be performed by station cleaning personnel in order to avoid unnecessarily spillages.			
II) Switchgear, substations, equipment and workshop area			
2.1	All parking area around, and roads,	Sweep, unblock drains, and pick up rubbish and papers	
2.2	All LV and HV substation, switchgear, Battery rooms and Equipment rooms on site.	Sweep, pick up rubbish/papers, empty bins.	
2.3	All switchgear rooms on site Note: Only authorised people or people under supervision of authorised person are allowed access to switchgears, Substations and equipment.	Sweep, pick up rubbish/papers, empty bins.	
III) Auxiliary cooling south plant area			
A)	South side area: Water treatment plant, auxiliary cooling Area: The area covered from the road between the BOP and units including WTP area up to the security fence.		
3.1	Auxiliary cooling system (South) all components including the ponds, floors, both closed and open system, Auxiliary boiler, and chiller plant south.	Sweep, pick up rubbish/papers, internal cleaning of the ponds, remove dust, clear oil spillages, and remove oil stains on the floor 4 ponds every three months	
3.2	Auxiliary cooling, all pumps, screens, fans, motors, tanks, pipe work and transformer yard	Sweep, dust, clear spillages. Pick up rubbish, clean dip trays and empty dust bins.	
3.3	Station Service Building (BOP) area, pumps, pipework, and valves.	Sweep, remove dust. Clear spillages; pick up rubbish, clean dip trays and empty dust bins.	
3.4	Clean and dirty tanks and Portable Head tanks, gutters, canals, basements, and drains.	Clear the algae /sludge /oil /water, wash/clean the canal, sweep, empty bins/skips, clear all spillages and pick up rubbish/papers	
3.5	Fire pump house including fire head tank, portable water head tank, Electrical and Diesel fire pumps, Cooling towers and the entire pipework and drains.	Clear spillages, empty drip trays, sweep, and pick up rubbish	
3.6	Water Treatment Plant building and temporary water treatment plant external cleaning of components, floors, gratings,	Dust, sweep, clear spillages, remove rubbish/papers/rubbles, and empty bins. Industrial	

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	handrails and walkways, basements, pumps, motors, valves, pipe work, and Offloading Bay. Chemical Bunds, sumps and offloading areas of spills, chemical powders, foreign objects, and debris, including pumping out of pumps if required, including support structures	vacuum cleaner, high pressure washer, submersible pump, brooms, and brushes, and wiping (Frequency: 1 weekly, but with provision for ad-hoc, more frequent cleaning if required)	
	Unit 1-6 CPP Plant area	Dust, sweep, clear spillages, remove rubbish/papers/rubbles, and empty bins. Industrial vacuum cleaner, high pressure washer, submersible pump, brooms, and brushes, and wiping. Cleaning condensate polishing vessels	
	Unit 1-6 Primary & secondary Conditioning rooms	Dust, sweep, clear spillages, remove rubbish/papers/rubbles, and empty bins. Mop floors and wipe dust.	
	Unit 1-6 Analyser room		
	Laboratory	Dust, sweep, clear spillages, remove rubbish/papers/rubbles, and empty bins. Mop floors and wet- wiping dust on shelves, cupboards, and fume hoods.	
	1. Oil ,		
	2. Water ,		
	3. Coal ,		
	4. Control room		
	5. WTP analyser room		
	Water Treatment Clarifiers and Tanks	Industrial physical cleaning (as when is required methods to be discussed and approved prior cleaning)	
3.7	Water treatment Plant Sub Station South and transformer area.	Dust, Sweep, pick up rubbish/papers/debris, empty bins, clear oil spillages	
Water treatment additional scope			

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<ol style="list-style-type: none"> 1. Raw water reservoirs pump station – The area is full of dust 2. Transfer houses, sumps (especially TH8 sump), silt traps & the conveyor belts – There are a lot of coal and ash spillages in these areas 3. Unit 6 – 1 process drain sumps (submersible pumps not working) draining 4. Unit 6 – 1 oil water sumps – Oil drainage/clean-up 5. Coal stockyard V-drains – Vegetation, coal clean-up 6. Pollution Control Dam CSY Silt trap - Vegetation, coal clean-up 7. Storm water channels around the coal stock yard - Vegetation, coal clean-up 8. Storm water attenuation facility and the channels draining to this facility – Vegetation 			
B)	Auxiliary boiler area		
3.8	Auxiliary boiler plant area, floor, motor, pumps, piping, walkways	Dust, Sweep, pick up rubbish/papers/debris, empty bins, clear oil spillages	
3.9	All the canals on the south side of the station surrounding the ground area.	Pick up rubbish/ papers, empty bins /skips / Silt trap, and clean canal	
C)	Compressor plant area		
	West side area: compressor plant area- West area is covered by chimney road, Ring Road west towards the Terrace link conveyor Area, as indicated on the Station layout drawing (0.84/4)		
3.10	Area around the compressor pump house and inside the pump house.	Pick up rubbish, Sweep, remove dust and clean	
3.11	Ring road area, towards the security fence. All the roads in the west area.	Sweep, Pick up rubbish / papers/ rubbles, empty dust bins	
D)	Auxiliary cooling north area		
	North: auxiliary cooling (North area is covered by Office Road to security gate 1, and where HV and Office Road join to east corner of security fence as indicated on the Station layout drawing (0.84/4))		
3.12	Road to Access control building and parking area.	Sweep, Pick up rubbish / papers/ rubbles, empty dust bins/skips	
3.13	Service transformer area.	Sweep, dust Pick up rubbish / papers / rubbles, empty dust bins/skips	
3.14	All the areas around the workshops, canteen, Garage, and stores area. Fire and First aid area	Sweep, Pick up rubbish/ papers/rubbles, empty dust bins/skips.	
3.15	Weigh bridge and office container	Dust, sweep, remove/ degrease and scrub oil stains, clear oil spillages	

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		remove rubbish waste and pick up rubbish.	
E)	LP Gas and hydrogen plant area		
3.16	The area around the LP gas, diesel gen and diesel fire pump house.	Sweep, Pick up rubbish /papers/rubbles, empty dust bins/skips, Clear spillages, dust all components and unused material.	
F)	Clean/dirty recovery and pollution dams:		
3.17	Ground areas surrounding plant Station drains Silt traps, and entrance of Stilling/Settling water pond. Secondary treatment plant. Recovery dam pump house. Primary treatment plant (drying bed). Recovery dams oil skimmer plants	Picking of litter Remove ash sludge, clear/ remove plants / sludge on the entrance. Remove ash sludge and general cleaning. General cleaning. Remove ash sludge. Operate the machine by means of a push of a button.	Vacuum machines, HP machine, HP pipes, tipper truck.
G)	Sewage Treatment Plant and Pump Station:		
3.18	Drying beds inspection and removal of dried sludge.	Raking, collecting into bins/drums or buckets, and dumping in provided skips. (Frequency: Daily as per inspections for dry beds).	
	Sewage plant and equipment and ladders of debris, dust and cobwebs, including all outside equipment, and Chlorine room, DUP filter pump room, compressor room, ferric chloride room, and Switchgear room at STP and pump station.	Dusting, sweeping, wiping, vacuuming (Frequency: 2 weekly).	

NOTE:

- ❑ Floor cleaning to be done using the walk behind sweepers, with the cleaning kit consisting of a hose. Wand and attachment. It should also have a pre-sweeping attachment that will remove litter and debris
- ❑ Should the Partner require the use of fire hydrant water, the Partner shall require permission in writing from the Service Manager
- ❑ Sweeping is the preferred method of cleaning where there is ash, dust and PF.

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Annex 3: OUTAGE CLEANING SCOPE OF WORK

- Number of Outages per year is not guaranteed due to the current demands of electricity.
- Duration of an IR is 28 days, and a GO/MO is anything above the 28 days up to 50 days
- Timing – An outage can run during the public holidays (festive season included) and outages can be moved (outage dates can change), the Contractor shall take into account/consideration such factors when pricing.
- Outage cleaning shall be done on a 24-hour cycle (12 hour shifts) until outage cleaning is complete.
- The below scope is full scope for an IR or GO. The 7 – 14 day outage scope is much smaller – it includes de-gritting sump and general cleaning until outage has been completed.
- The contractor shall employ extra employees during an outage – these employees must be employed for the duration of the outage. The first two and half weeks of the outage, they will be expected to work shifts on a 24hour basis.
- Contractor should provide PPE, Medicals, transportation.
- Bunker lashing of coal bunker as required.
- Removal debris and tramp material

Cleaning of the following:

- a) Gas air heaters internally
- b) Duct ash hoppers internally
- c) Flue gas and Air ducting internally
- d) PJFF cell walls internally
- e) Turbine Area (turbine casing)
- f) Boiler Area (bunker lashing, PJFF duct, SAH tubes cleaning, 48m level Hopper cleaning, GAH 33ml cleaning, Flue gas duct ash emptying, Coal feeder emptying and gearbox cleaning/ milling plant.)
- g) ID/FD/PA Fan
- h) Workshops
- i) Transformer Yards
- j) ACC FAN's

Note: Rope access will be on, as and when required basis and not only outages.

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1. TURBINE AREA		
	Area to be cleaned	Method of Cleaning
1.1	Generator & Generator yard	Cleaning before the generator casing is stripped. Not to be cleaned with water but any approved electrical solvent like SAF Heavy can be used. Clean floor before nothing is put on.
1.2	Turbine Hoods	Clean HP, IP & LP turbine hoods (outer casing) with rags and solvents
1.3	General cleaning of the turbine area	Pick up all rubbish, sweep, any other cleaning that maybe requested.
2. BOILER AREA		
	Area to be cleaned	Method of cleaning
2.1	Internal cleaning of Boiler for tube inspections & repairs. Cleaning for re-heater repairs & inspections	Washing, dusting & general cleaning
2.2	All areas not accessible through walkways or not reachable by dusting sticks.	Rope access Vacuum, remove dust, clean, clear oil marks, remove rubbles and sweep
3. ID FANS		
	Area to be cleaned	Method of cleaning
3.1	ID fans casing	Vacuum & wash – Removal of ash Internal cleaning for inspections & repairs
3.2	ID fan to smokestack	Removal of ash
4. WORKSHOPS and STORES		
	Area to be cleaned	Method of cleaning
4.2	Mechanical Workshop	Cleaning of floors, walls, trenches, and equipment
4.3	Stores	Sweeping, washing of floors, cleaning of equipment and dusting
5. TRANSFORMER YARDS		
	Area to be cleaned	Method of cleaning
5.1	Transformer yard	<ul style="list-style-type: none"> Clean the floor – use degreaser if necessary to remove grease build ups. Drain out water in the cable trench and remove any rubbish/sand that might have build-up in the trench and bund area
		NOTE: <ol style="list-style-type: none"> Contractor will be expected to do general cleaning on the plant. This includes regular cleaning of the lift shafts (at least every 2 days).

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NOTE:

- a) Any scrap metal/ redundant material found in the areas of the Contractor's responsibility should be removed from the plant and taken to the Scrap Metal Area.
- b) All ash collected from the plant must be dumped at the ash dump. The domestic waste must be transported to the domestic waste landfill site. When transporting any materials, The Contractor shall ensure that there are no spillages caused on the roads.
- c) Domestic waste shall be transported with a suitable truck for domestic waste. Domestic waste will be transported to the waste sorting area for sorting before it is transported to the landfill site.

Annex 4: PLANT CLEANING CONTRACT'S SCOPE OF WORK (ON REQUEST JOBS)

THE FREQUENCY OF CLEANING SHOULD BE AS PER SCOPE OF WORK.

The Contractor shall be expected to respond within a week of receiving the order number. This shall exclude sewage pump station where response shall be expected within a day of receiving the order number.

1. CLEAN & DIRTY RECOVERY & POLLUTION DAMS			
IS THE AREA COVERED FROM STORM WATER CANAL AND ALL THE AREAS COVERED IN THE RECOVERY DAMS YARD AS INDICATED ON THE STATION LAYOUT DRAWING (0.84/4).			
NO.	AREA TO BE CLEANED	METHOD	FREQ
1.1	All water canal to recoveries, and area around the canal.	Clean/remove/scrub the algae/sludge in the canal, clearing of blockages on the fence, and pick up rubbish Ensure that the rubbish/algae/sludge removed from the canals is removed from the sides of the canal so that it does not go into the canal again.	6 Monthly basis/on request.
1.2	Settling/Stilling ponds (i.e., including pumping out of the water from the pond).	<ul style="list-style-type: none">Remove plants on the pond banksPumps the water from the pond to be cleaned into the adjacent ponds, taking care not to pump the silt settled at the bottom of the dam. Once the level of the dam has dropped to the extend where	Once per year

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		<p>silt is being pumped, rearrange the outlet piping to pump the silt water mixture to the smaller silt trap upstream of the primary oil settling pond. Set up a high-pressure pump with long discharge piping, taking suction from the adjacent full oil settling pond and wash the silt in the dam to the lowest level where the slurry pump takes suction to pump silt water mixture to the silt trap. Continue operation until dam is clean.</p> <ul style="list-style-type: none">• The sludge shall be dumped at the ash dump <p>Care must be taken not to damage the plastic lining. Note: Any other method can be used – send proposal to Service manager for acceptance.</p>	
1.3	Dirty Dam/Clean Dam	<p>Remove plants on the pond banks, pick up rubbish/rubbles, empty dustbins/skips, clean the dams – i.e. remove ash/sludge & dump at Ash dump. The method used shall ensure that the plastic lining on the dams is not damaged. Front end loaders shall only be used on the concrete lined silt traps and not in the plastic lined dams.</p> <p>Preferred Method: Shall use the installed recovery water pump system to pump out water from the dams. A slurry pump must be placed on the cleaning sump in the lowest part of the dam. Using the slurry pump the silt in the dam has to be washed to the lowest level in the dam. The silt water mixture then has to be pumped from the specific dam to the smaller silt trap upstream of the primary oil settling pond.</p>	Once every 2 years

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		Note: Any other method can be used – send proposal to Service Manager for acceptance.	
1.4	Cleaning of the clean & dirty dam silt trap	Remove plants on the silt trap banks, Dewater the silt traps using slurry pumps, pumping the dirty water to the smaller silt traps upstream of the primary oil settling pond. Remove algae/sludge and any debris inside the silt trap. Note: Any other method can be used – send proposal to Service Manager for acceptance.	6 Monthly basis/on request
2. FUEL OIL AREA			
2.1	Internal cleaning of the fuel oil tanks.	Remove sludge, deposits and degrease the tank walls. Vacuuming will be the preferred method of cleaning. One tank will be cleaned at a time. Note: The Contractor shall be responsible for transporting the sludge from the fuel oil area to the temporary hazardous waste.	Once in 3 years
3. SEWAGE TREATMENT PLANT			
NO.	AREA TO BE CLEANED	METHOD	FREQ
3.1	Sewage pump station	Vacuum/Clear/wash/scrap sludge in the pit. Pump raw sewage out	On Request
3.2	Sewage Treatment plant Area	Vacuum/Clear/wash/scrap sludge in the pit. Pump raw sewage out	On Request
Note: Care should be taken when transporting sewage from pump station to the dumping area.			
4. ALL SUMPS			
4.1	All sumps on station	Internal cleaning of the sumps and vessels – this includes pumping out of water.	On Request

Note:

- d) Ash from the recovery dams must be dumped at the ash dump – care must be taken to ensure that sludge does not spill on the road to ash dump.

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- e) Disposal of hazardous material – to be contained in labelled drums and taken to the temporary hazardous storage area.

Take note of the following risks involved:

Recovery dams

- a) Care must be taken that where necessary life jackets must be worn – therefore make provision for your employees to have life jackets.
- b) The area currently does not have toilets, potable water supply & shelter – make provision for the mentioned for your employees who will be working at the dam.
- c) Ash removed in the silt trap is very wet, hence care must be taken when using equipment in there, no employee should attempt to go inside the silt trap full of ash.

Others:

- a) Some of the work will involve your employees working in confined spaces, please provide the necessary safety gear for working in confined spaces.
- b) Cleaning of chemical areas at Chemical Plants (WTP, Aux Cooling, CPP, and Sewage Treatment Plant) requires cleaners to be trained on Hazardous Chemical Substances Act, as well as on the Hazards and mitigations associated with each of the chemicals present in the Chemical plants. Material Safety Data Sheets in this regard can be obtained from Chemical Services department at Medupi site.

Further Risk Assessments shall be done by the Partner before work commences on any of the plant.

List of drawings

Drawings issued by the Employer

This is the list of drawings issued by the Employer at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title
0.84/4		Medupi Power Station Site layout

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3.2 Inspections and report

The Employer will do inspections and compile assessments as per the task list. Follow up monthly meetings with the Partner to close the gaps.

3.3 Tools and equipment

The Employer and/or Partner shall provide all tools and equipment necessary to execute the station cleaning scope. This arrangement shall be negotiated in good faith by Employer and Partner.

The following is to be provided as and when required:

- a) Water pumps - 4 inch with suction and discharge hoses
- b) Loading Equipment (mini loader) for clearing of spillages
- c) Mobile conveyors for loading of material

3.4 Management meetings

- a) Site meetings & inspection meetings between Eskom & the Partner shall be monthly and when required. Inspection by senior members of the Partner shall be carried out on completion of the work.
- b) Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the service.
- c) Records of these meetings shall be submitted to the Service Manager by the person convening the meeting within five days of the meeting.
- d) All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting.
- e) Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the conditions of contract to carry out such actions or instructions.

3.5 Safety, Health, Environment and Quality Management

- a) The Partner shall comply with the Medupi power station's Safety, Health, Environment and Quality policies. The Partner and/or supplier shall have a documented and implemented management system that are in line with Medupi Power Station SHEQ management systems e.g., environmental policy, operational procedures relating to their activities, aspects/impacts register etc.
- b) The Partner and/or supplier shall prepare an environmental management plan relating to their activities that will be carried out. The environmental management plan shall be based on, amongst others, Eskom Medupi Power Station's OEMP and any other applicable environmental legislation. The environmental management plan must include all the aspects and impacts relating to the activity and address the principle of continual improvement
- c) The Partner and or supplier employees shall be inducted on the environmental requirements as per these documents.

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- d) The Partner and/or supplier shall comply with all Eskom Medupi Power Station environmental requirements such as policies, standards and procedures
- e) The Partner shall appoint trained and competent personnel in writing, who will have the responsibilities of implementing all environmental requirements on a specific contract
- f) Method statements shall be submitted for approval by the Eskom Medupi Power Station Senior Environmental Advisor, prior to commencement of and activity. Non-conformance and incident reporting and investigations shall be done by the partner, such reports must include but not limited to the following information:
 - ☐ The cause of the non-conformance/incident
 - ☐ The proposed actions to correct and prevent recurrence
- g) Eskom Medupi Power Station shall issue non-conformances where there are deviations from Eskom Medupi Power Station Procedures and any other environmental requirements
- h) The Partner and or supplier shall allocate funds for the implementation of environmental requirements
- i) Partner shall comply with environmental requirements as per 237-555-ENV-SP Medupi Environmental Management Requirements for partners and Supplier Specification.

3.6 Rules are as follows:

- a) Provide sufficient storage containers, labelled depicting general or hazardous waste and store in a designated storage area.
- b) No hazardous waste may be stored for a period of more than 90 days on the Medupi power station premises.
- c) Ensure that all hazardous waste is disposed at a licensed Class A disposal site. A copy of the hazardous waste disposal certificate must be submitted to the project/Service Manager.
- d) Ensure that all other general waste is disposed at a licensed and registered waste dump.
- e) Ensure that your site does comply with the general good housekeeping practices. Redundant material will be removed to allocated sites. No scrap shall be stored in the Partner's yard. Scrap is to be cleared from Site daily.

3.7 Eskom's Life Saving Rules of Safety

- a) In the interest of promoting a safe and healthy working environment, the Eskom executive committee has approved the implementation of cardinal rules, to improve safety in the organisation. These rules will also be applicable to all contracting staff.
- b) The business is concerned about the emotional, social as well as economic effect of all these unnecessary incidents, and would like to correct behaviour pro-actively.
- c) These rules are determined beforehand to enable the organisation to clearly communicate the established cardinal rules and how to deal with non-compliance to the workforce prior to the implementation of such rules. These rules have been implemented as from 1 January 2009 and will be strictly enforced.
- d) Failure by any person or Partner engaged in doing business with Eskom to adhere to these rules, will lead to serious action being taken with serious consequences. These actions include

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termination of service of an individual and even blacklisting of Partners not taking the rules seriously.

- e) It is therefore strongly advised that these rules be taken seriously, communicated to all your staff, ensure that they all understand the rules, understand the consequences of violating a rule and sign a document stating that they understand and acknowledge the implications of these rules.

There are 5 identified Lifesaving rules and they are as follows:

Rule 1: Open, Isolate, Test, Earth, Bond, and/or Insulate Before Touch

(That is, any plant operating above 1 000 V)

No person may work on any electrical network unless:

- a) He/ She is trained and authorised as competent for the task to be done.
- b) A pre-task risk assessment to identify all risks and hazards has been conducted prior to any work commencing.
- c) An equipotential zone is created for each worker on the job site by earth, bonding, and/or insulating according to approved procedures.
- d) All conducting material is connected together, all staff on site wear electrical safety shoes, and insulating techniques are applied according to standards; and
- e) The authorised person (team leader) has certified and shown all team members that the apparatus is safe to work on.

Rule 2: Hook up at heights

Working at height is defined as any work performed above a stable work surface or where a person puts himself/herself in a position where he/she exposes himself/herself to a fall from or into.

No person may work at height where there is a risk of falling unless:

- a) A pre-task risk assessment to identify all risks and hazards has been conducted prior to commencing any work at height.
- b) He/ She is appropriately trained.
- c) He/ She is appropriately secured during ascending and descending.
- d) He/she is using an approved fall arrest system where applicable.

Rule 3: Buckle up

No person may drive any vehicle on Eskom business and/or on Eskom premises:

- a) Unless the driver and all passengers are wearing seat belts where applicable.

Rule 4: Be sober

No person is allowed to work under the influence of drugs and/or alcohol.

“Under the influence” means the use of alcohol, drugs, and/or a controlled substance to the extent that:

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- a) The individual's faculties are in any way impaired by the consumption or use of the substances; or
- b) The individual is unable to perform in a safe, productive manner; or
- c) The individual has a level of any such substance in his/her body that corresponds to or exceeds accepted medical/legal standards; or
- d) The individual has a level of alcohol in his/her body that is greater than 0.02% blood alcohol concentration.

This includes any level of an illegal substance in the body, irrespective of when the substance was used.

Rule 5: Ensure that you have a permit to work

Where an authorisation limitation exists, no person shall work without the required Permit to Work (PTW), which is governed by the Plant Safety Regulations, Operating Regulations for High Voltage Systems (ORHVS) etc.

- The Partner and/or supplier shall comply with all requirements as stipulated in Plant Safety Regulation and Operating Regulations for High Voltage systems with regards to Permit to Work.

3.8 Health and safety risk management

3.8.1 After contract award:

- a) The Partner must compile a Health and Safety Plan, filed in a Health and Safety File , comprising of the following :
 - Proof of the contracting company's own Health and Safety Policy.
 - Proof of appointments, assignments and designations as required in terms of the Occupational Health and Safety Act, No 85 of 1993.
 - Proof of Risk Assessments regarding Hazards identified.
 - Proof of Safe Work Procedures that derived out of the Risk Assessments.
- b) Proof of the contracting company's own Emergency Plan that will deal with their own emergencies on site.
- c) Proof of a Fall Protection Plan, if required to perform work at elevated levels developed by a competent person appointed by the contracting company.
- d) Proof of "Notification to perform Construction Work" – a copy of the notification addressed to the Department of Labour as required Regulation 3 of the Construction Regulations.
- e) Proof of an Induction Program (Medupi SHE Rules be used as a Guide) and an attendance register signed by its employees prior the commencement of any work on site.
- f) Proof of the contracting company's employees Medical Fitness Certificate. (Must still be valid – one year. May only have been issued by an occupational health practitioner).
- g) Proof of partners weekly Health and Safety Rep Inspections regarding its own site and where detached work is performed.
- h) Proof of Personal Protective Equipment (PPE) issued to partner's employees.

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- i) Proof of contracting company's Accident/Incident Reporting and Investigation System.
- j) Proof of checklists and where applicable test certificates, regarding partner's tools, equipment, machinery, mobile equipment, vessels under pressure and any other applicable checks required by the Act.
- k) A "Section 37(2) Agreement with Mandatory" needs to be drawn up by the Partner and the Service Manager and co-signed before work can commence.
- l) The Safety Officer employed by Medupi Power Station will audit these Health and Safety Plan to ensure compliance with the provisions of the Act, before the Partner will be allowed to start with the Works.

3.9 Manpower requirements

3.9.1 The Supplier Cleaning Staff

- a) The Partner will employ sufficient staff to cover all areas of the plant as listed in the SOW.
- b) Provision to be made for additional persons as and when required, due to major plant spillages.
- c) Cleaning will be done on daily basis 24/7. Other areas at Medupi Power Station are occupied by Shift workers. These areas should be cleaned on shift basis.
- d) The Partner supplies proof that the cleaner performing a task has been trained and is aware of all conditions /requirements pertaining to the use of the equipment that he is using (i.e., use of vacuum cleaners, ladders, scaffolds, detergents, etc.) as well as the hazards associated with this. Proof of such training must be kept and made available to the Employer on request.
- e) The Partner staff will wear uniquely identified clothing at all times which will identify the Partner.
- f) Under no circumstances will the Partners staff wear the Employers (Eskom) PPE.
- g) The Partner will ensure that the cleaners are under constant supervision at all times.
- h) The Partner will be responsible for the provision of all or any temporary or expendable materials required allowing for storage of material.
- i) The Partner will be available for emergency cleaning.

3.10 Site inspection requirement

The Partner acknowledges that he/she has satisfied himself, before submitting his tender, as to the layout of the premises, the quantities and nature of work and labour, materials and equipment necessary for the completion of the plant cleaning services, additional services, the means of access to the premises and, in general, shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his contract.

3.11 Supervision requirements

The Partner is expected to provide the total infrastructure to competently fulfil the requirements of this contract. This shall include adequate management and supervision at all levels.

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The Partner is required to submit a staff structure indicating management and supervisory levels. Eskom's Service Manager must approve any change to such staff structure and after such approval; the Partner shall submit an updated staff structure to the Service Manager.

3.12 PSR and ORHVS regulations authorization requirements

- a) All Partners will ensure that they are informed of all the requirements of Eskom's Plant Safety Regulations and ORHVS and that they at all times comply to the requirements of these Regulations.
- b) All Supervisors of contracting companies, who are directly involved with Eskom's Permit to Work System, shall be trained on PSR and ORHVS regulations and on successful completion Of Medupi's authorization / evaluation process, and must be authorized as Responsible Persons for access in the switchgears.
- c) The Responsible Person (RP) shall ensure that:
 - I) The conditions of permits and cautionary notices are strictly adhered to.
 - II) The lockout procedures, mechanical as well as electrical, are strictly adhered to and any deviations shall be corrected immediately.
 - III) The safe work procedures as lay down by Medupi Power Station and as determined by the Risk Assessment, shall be followed.
 - IV) The workers register and cautionary notices are discussed daily with workers

3.13 Equipment management requirement

- a) The Partner shall ensure that there is a process in place to manage his equipment and tools. The statutory inspections and testing shall be done according to the requirements of the law.
- b) The equipment shall be inspected as per the requirements by the law. The small equipment and tools that are used daily by the cleaners shall be marked with unique codes and signed in and out by the employee using them.
- c) This is to ensure that no tool is left on the plant and that every tool that is lost can be accounted for.
- d) Every new tool bought shall be reported to the Service Manager and every tool not returned by an employee after completion of the works shall be reported to the Service Manager.
- e) All tools and equipment shall be on the Partner's asset register. Asset register shall be submitted to the Service Manager on request

Note: On technical evaluation of this tender, preference will be on high tech tools that will enable ease and effectiveness of cleaning. List of tools and equipment will be discussed during technical evaluation.

3.14 Road rules requirements

Medupi Power Station roads are maintained in a fair condition and all construction traffic is limited to using these roads. Medupi traffic regulations are to be adhered to at all times. The speed limit is 40 km/h and other area is 20 km/h.

3.15 Security and Access Requirements

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- a) The Partner is informed of the access procedures through Medupi Procedure. "Access Control and Protection of Eskom Assets" and should expect that such procedures may change depending on the prevailing security situation.
- b) Temporary entrance permits are issued to partners who are on site for less than 3 months. Names and Identity Numbers are required before the contract starts. Photocopies of Identity documents are also required.
- c) This must be arranged with the Service Manager. Lost permits will be paid for by the Partner to Protective Services at a cost. All permits need to be returned to Security or the Service Manager upon completion of the contract. A list of tools is submitted which is verified by security staff prior to tools entering the security area.
- d) Should any Partner staff be transferred from Medupi or leave site, the Partner ensures that personnel leaving site are transported out of the security area and that the permit is returned.
- e) Only work vehicles with an approved permit will be allowed on site. These vehicles are to be in a serviceable condition and road worthy. Temporary vehicle permits are issued to partners who are on site for less than 3 months. This must be arranged with the Service Manager.
- f) No private vehicles will be allowed on site without a temporary permit.
- g) Arrangements must be made with the Service Manager well in advance to allow sub-partners and visitors onto site.
- h) No "Private Work" is carried out for or on behalf of any Employer Employee. Any person suspected of being under the influence of alcohol is tested and if proved positive, is refused entry to the security area. Only authorised persons are permitted to enter Red Zone areas.
- i) The transport of any equipment onto the site must be declared and documented at Protective Services in order to facilitate the future removal thereof. Pro-active comprehensive listing of all tools and equipment brought to Medupi will considerably speed up entrance to the power station.
- j) The Partner and/or Supplier must notify the Service Manager immediately of any employees no longer in his/her service.

3.16 Supply of electricity requirement

- a) Electric power for construction, both 220V AC and 400V 3-phase supply, is supplied at Site free of charge, but connection fees are for the Partner's account.
- b) All installations comply with the details set out in Medupi Maintenance Procedure - Partner's Temporary Electrical Equipment Supply, and Construction Power Supplies (Occupational Health and Safety Act - Act 85 of 1993) and the Medupi Safety, Health and Environmental Specification for Partners.
- c) The Employer does not guarantee continuity of supply and no claims for standing time as a result of power failures will be considered. A written request, indicating the Partner's requirements is submitted to the Service Manager as soon as possible after the Contract Date.

3.17 Water management requirement

Potable and raw water for construction purposes is also available free of charge.

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A written request, indicating the Partner's requirements is submitted to the Service Manager as soon as possible after the Contract Date. Exception is at the recovery dams, where Partner must supply drinking water to his employees.

3.18 Sanitary facilities

Permanent toilets to serve the Power Station and urinals at the boundary area have been constructed by the Employer and all the Partner's personnel may make use of these facilities. Except at the recovery dams where the Partner must supply portable toilets to his employees.

3.19 Plant area and services scope of work

The service required to clean Medupi Power Station plant area will include cutting of grass and trees at the dams, sweeping, cleaning, and dusting of floors, roads and the plant in general as specified in the scope of work.

4. Acceptance

This document has been seen and accepted by:

Name	Designation

5. Revisions

Date	Rev.	Compiler	Remarks
March 2022	9		Requirements for new contract

6. Development Team

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

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Name	Designation

7. Acknowledgements

N/A

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