PART 3: SCOPE OF WORK

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C3.2	*Contractor*'s Service Information	
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C3.1: EMPLOYER'S SERVICE INFORMATION

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1 Description of the *service*

1.1 Executive overview

The objective of the industrial cleaning contract is to achieve and maintain clean plant. The following information and schedules only indicate the *employer's* estimate of the cleaning activities and time intervals to be carried out on the different types and areas of plant. It remains the Contractors responsibility to assure that the estimates are sufficient and to adjust these estimates whenever necessary and assure that all areas of plant are kept clean.

1.2 *Employer*'s requirements for the *service*

A. Units Cleaning

The Contractor shall be responsible for the following areas:

1. **North of Turbine hall Area** – The tarred roads within the boundaries of Kusile Power Station.
2. **Turbine Area** – Turbine house from the roof top to basements including all pipes/cable trenches/tunnels.
3. **Boiler Area** – From rooftop (above 99 m/l) to basement, cable tunnels and sumps; up to and including the South Road.
4. **Fabric Filter plant Area** – Road between the boiler and Fabric Filter Plant.
5. **ID ,FD and PA Fan Area** – FD, PA & ID Fans, Smoke Stack and all areas covered up to fuel oil road.

1. North of Turbine hall Area				
	Areas from the road on the ground level to 5m/l			
NO.	**Area to be Cleaned**	**Method**	**Recommended Equipment**	**Frequency**
1.1	ACC fans Gearboxes/Motors loading bay, the area around the storm water drains.	Sweep road, pick up papers, rubbles	Brooms, feather dusts	Daily
1.2	Blocked drains and trenches.	Unblock and Suck out debris	Vacuum machine, High pressure machine	As and When Required
1.3	Hand rails, walls, drip trays, tanks and all other equipment installed on the plant	Dust, sweep, remove birds droppings, degrease and pick up debris	Feather dusts, brooms, use absorbent oil fibre (loose)	Daily
1.4	Above Process drain level	Degrease, vacuum the water	Degreaser, brooms, vacuum truck, potable pump	Weekly
	Area from 0m/l to 16 m/l underneath the ACC fans			
1.5	A stairwell on ACC lifts. Sample rooms including sample room roof and CRT top.	Sweep, clear dust, clear spillages and, degrease.	Feather dusts, brooms, absorbent fibre, ride on sweeper,	Weekly
1.6	ACC Lift and room tower, walkways, Hand rails, ACC Ducts, Condensate Ducts and the gutters on the Turbine roof.	Dust, sweep, pick up debris, clean, degrease and unblock.	Feather dusts, brooms, absorbent fibre	Weekly
1.7	ACC fan Motors and gearboxes, walkways between Radiator coolers, and walk way on the out	Dust, sweep, pick up debris, clean and clear oil spillages	Feather dusts, brooms	Weekly

	skirt of the fans (East).			
1.8	CPP room, anion vessels rooms,	Dust, sweep, and pick up debris	Brooms, dusters, walk behind sweeper	Weekly
1.9	ACCCT area and CEP room, CEP motors and pumps	Dust, sweep and pick up debris	Brooms, dusters, absorbent fibre	Weekly
1.10	Switch gear rooms	Dust, sweep, wipe, polish floors	Brooms, feather, walk behind sweeper dusters, cleaning cloths	Weekly
1.11	All H-Vacs for aircons, Generator and Unit transformers and oil drips around	Dust, sweep and pick up debris/papers	Brooms, feather dusters and absorbent fibres	Monthly
2. TURBINE AREA				
	Areas from the roof to 20.5 m/l			
No	**Area to be Cleaned**	**Method**	**Recommended Equipment**	**Frequency**
2.1	Roof top gutters, floor, stair ways, handrailsand lifts	Pick up debris, unblock gutters, sweep and clean stair ways. Wipe the handrailswith the wet cloth.	Brooms, feather dusters, wipes	Weekly
	Areas from 20.5 m/l down to 16 m/l			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
2.2	Feed water tank and piping, walkways, stairs	Pick up debris, dust, sweep and clean all walkways and stairs.	Feather dusts, brooms, cleaning cloths	Daily
	Areas from 16 m/l to 11 m/l			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
2.3	LP bypass valves, LP bypass hydraulic system drip trays, pipe work system, floor gratings, stairs, passages	Dust, pick up debris, clean spillages, sweep, empty dust bins, separate waste.	Brooms, feather dusts, used absorbent oil fibre(loose)	Daily
2.4	Ejectors, pipe work, floor, gratings, stairs	Dust, pick up debris, clean and sweep.	Brooms, feather dusts	Daily
	Areas from 11 m/l down to 9.5 m/l			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
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 debris, clean and sweep. And to be mopped, washed and polished.	Feather dusts, brooms, used absorbent oil fibre(loose), mops and industrial polishing machine, oily rags, walk behind sweeper, ride on sweeper, Industrial floor polishers	Daily
	Areas from 9.5 m/l down to 5 m/l			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
2.6	HP heaters; leak-off piping, floor gratings and pipe work system. Feed water regulating station. Turbine lube oil room	Pick up debris, dust, clean and sweep. Sweep, polish, remove dust	Feather dusts, brooms, used absorbent oil fibre(loose)/oily rags	Daily

2.7	Air Ejector condenser, CPP plant, valves and piping area. Stairs and walkways.	Dust, sweep, remove bird droppings, degrease and pick up debris	Feather dusts, brooms, used absorbent oil fibre(loose)	Daily
	Areas from 5 m/l down to 0 m/l.			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
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 debris, dust, clean and sweep.	Feather dusts, brooms, Industrial floor polishers	Daily
	Areas from 0 m/l down to -5 m/l.			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
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. Process drain sump	Pick up debris, dust, clean and sweep.	Feather dusts, brooms. Degrease	Daily
2.10	Battery rooms	Dust and sweep	Feather dusters, brooms, cleaning cloths	Weekly
2.11	Process drain sump	Degrease, vacuum the water	Degreaser, brooms, vacuum truck, potable pump	As and When Required
	3. BOILER AREA			
	Area from roof top down to 99 m/l			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
3.1	Roof top gutters	Pick up debris, unblock gutters	Brooms, feather dusters,	Yearly
3.2	Goods & passenger lifts, lift stairwells, handrails99 m level up to Zero meter level, fire doors (99 m to 0 m level)	Pick up debris, and sweep clean the stair wells, remove dust. Wipe the handrailswith the wet cloth.	Brooms, feather dusters, damp cloth, potable vacuum machine	Weekly
3.3	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 debris, sweep, and dust and empty the dust bin, remove rubbles.	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 99 m/l down to 96m/l			
3.4	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 debris, sweep, dust and empty the dust bin, remove rubbles.	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 96 m/l down to 91 m/l			
3.5	All Ducts and pipe work, Boiler walls, hangers, Supports, walkways and handrails	Pick up debris, sweep, dust and empty the dust bin, remove rubbles.	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 91m/l down to 87 m/l			
3.6	HP bypass and re heater	Clean oil spillages,	Feather dusts, brooms,	Weekly

	safety valves hydraulic station (LH and RH), Fire water head tank, Collecting vessel, Re heater pipe work, Soot-blowing station, all pipe work system and cable rackings.	empty the oil bins, remove greasing, sweep, dust, pick up debris, clean steel floor, steps and walk way and empty the dust bin.	potable vacuum machine	
	Area below 87 m/l to 84 m/l.			
3.7	All Ducts and pipe work, lance soot-blowing valves / Dampers, motors, Gearboxes, Boiler walls, walkways (gratings/steel) and hand rails. Collecting vessel and pipe work.	Remove dust, remove debris / fibre, sweep, and clean oil Stains / spillage, empty bin	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 84 m/l down to 80 m/l.			
3.8	HP bypass spray water valves, Super heater 2 headers and pipe work, Lance soot blowing, walk way, steps steel floor, handrailsand all steam pipe work.	Sweep, clean, dust, and pick up debris.	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 80 m/l down to 77 m/l.			
3.9	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 debris, sweep, and empty dust bin.	Feather dusts, brooms, potable vacuum machine	Weekly
3.10	All steam pipe work system, steel grating floor, hand rail and walk way.	Dust, sweep, and remove debris.	Feather dusts, brooms, potable vacuum machine	Weekly
	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 debris, clean, dust and sweep grating floor.	Feather dusts, brooms, potable vacuum machine	Weekly
	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 debris and empty dust bin.	Feather dusts, brooms, potable vacuum machine	Weekly
	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 debris, clean floor gratings, walk way, handrailsand steps, empty bin	Feather dusts, brooms, potable vacuum machine	Weekly
	Area below 63 m/l down to 59 m/l.			
3.14	63 m level roof gutters	Remove debris, unblock gutters	Feather dusts, brooms	Monthly
3.15	Circulating pump re-circulating line, End of collecting vessel,	Remove Dust; remove debris and empty dust	Feather dusts, brooms	Weekly

	Re-heat drain station. Super-heater 1 inlet header, Super-heater spray-water station, star distributor.	bin.		
	Area below 59 m/l down to 48 m/l.			
3.16	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 debris, sweep, dust and empty the dust bin. External cleaning required	Feather dusts, brooms	Daily
	Area below 48m/l down to 43 m/l.			
3.17	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 debris, removes spillages, remove grease, clear coal.	Feather dusts, brooms, absorbent fibres, and cleaning cloths	Daily
	Area below 43 m\l down to 33 m\l.			
3.18	Secondary and tertiary air pipes, PF pipes, oil burner boxes, oil burner pipe lines and associated cables and control cubicles, Fuel oil integrator stations, propane gas pipe lines 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, absorbent fibres, and cleaning cloths	Daily
	Area below 33m/l down to 28m/l			
3.19	Mill 50 firing. PF pipes, oil burner boxes, oil burner pipe lines 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 and sweep.	Feather dusts, brooms, , absorbent fibres, and cleaning cloths	Daily
3.20	Rotating Air heaters, drive motors, air heater Gas outlet duct	External cleaning i.e. Clearing spillages, removing oil stains and debris. Empty the dust bin.	Feather dusts, brooms, , absorbent fibres, and cleaning cloths	Daily
3.21	Internal cleaning of all the mills from mill 10 to mill 50 (Including and not limited to crusher compartments)	Remove coal, dust, Pulverised fuel.	Vacuum truck, industrial vacuum machine, knee caps, garden spades	As and when required
	Area below 28m/l down to 24m/l			
3.22	Mill 40 firing. PF pipes, oil burner boxes, oil burner pipe lines 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, absorbent fibres, and cleaning cloths	Daily
	Area below 24 m\l down to 20 m\l.			
3.23	Mill 30 firing. PF pipes, oil burner boxes, oil burner pipe	Remove dust, empty drip trays, clean oil	Feather dusts, brooms, , absorbent fibres and	Daily

	lines 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.	and PF spillages.	cleaning cloths	
	Area below 20 m\l down to 16 m\l.			
3.24	Mill 20 firing. PF pipes, oil burner boxes, oil burner pipe lines 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, absorbent fibres, and cleaning cloths	Daily
	Area below 16 m\l down to 12 m\l.			
3.25	Mill 10 firing (level 1 burner). PF pipes, oil burner boxes, oil burner pipe lines 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.	Spades, wheelbarrows, brooms, feather dusts, absorbent fibres, and cleaning cloths	Daily
3.26	Mill 10-50 coal feeders	Unblock feeder, remove coal from the feeder	Spades (long and normal), wheelbarrows,	As and when required
3.27	Around the mills and mill housing	Removal of PF, coal spillages	Spades, wheel barrows, scrappers	
3.28	Inside the mills	Vacuuming the inside of the mill	Portable industrial vac machine, vac truck, spades and wheel barrows	On request
	Area below 12 m\l down to 0 m\l.			
3.29	Saturator drain tanks, collecting vessel sub-cooling valves, Feed water drain to BBDV, Radial ventilation fans, Auxiliary steam header, PF ducting, outlets from mill classifiers	Remove Dust, remove debris, empty dust bins, sweep, clear oil / coal spillages and remove obstructions from suction screens.	Feather dusts, broom, cleaning cloths, absorbent fibres, sand and spades	Daily
3.30	Boiler condensate tank, boiler witness drains, economiser and evaporator drains.	Remove Dust, remove debris, sweep, and unblock drains.	Cleaning cloths, absorbent fibres and brooms	Daily
3.31	Saturator drain pumps, control air receiver tanks, blocked drains.	Remove Dust, clear ash/coal/oil spillages, remove oil stains, remove	Brooms, feather dusters, cleaning cloths, absorbent fibres, mops, sand and spades	Daily

		debris, empty dust bins, floor washing, and unblock drains.		
3.32	Mills, All Mill piping system including cooling system, All Mill lubrication and jacking system, Mill gearboxes, Grease system, girth gear and Seal air fans.	Remove debris, clear oil/coal spillages and remove oil stains.	Cleaning cloths, absorbent fibres, sand and spades, walk behind sweeper	Daily
3.33	PA, FD and ID fans Lubrication systems, Fans casing, pedestals, Bearings, Motors, Fans cooling pipes and oil tanks.	Remove Dust, remove oil stains, clear oil spillages, and remove debris	Brooms, feather dusters, cleaning cloths, absorbent fibres, walk behind sweeper, ride on sweeper, sand and spades	Daily
3.34	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 boaster pumps.	Clean oil spillages, empty the oil bins, remove greasing, sweep, dust, vacuum, pick up debris, clean steel floor, steps and walk way and empty the dust bin.	Brooms, feather dusters, cleaning cloths, absorbent fibres, walk behind sweeper, ride on sweeper and spades	Weekly
3.35	Flue gas duct	Remove ash dumped on the floor; unblock the flue gas duct bin to allow ash flow of ash. Operate the flue gas bin to ensure that it is flowing NB: ash is hot, appropriate PPE to be worn (including but not limited to face shields, heat resistant PPE, etc.)	Rod, water pipe, spade, wheelbarrow	As and when required
	SSC cleaning – unblocking of the SSC	Heat resistance PPE, Forklift, fire hydrant hoses, Procedure to clean is required		As and when required

NOTE:
Some of the work will involve your employees working in confined spaces, please provide training and the necessary safety gear for working in confined spaces and comply with the Plant Safety Regulation requirement for working in confined spaces.

Internal Cleaning on Boiler Plant	
Areas to be cleaned	**Method of cleaning**
Economiser Cleaning	Internal cleaning (Vacuum & washing) **NOTE:** See Boiler Washing Process above
Flue Gas Duct	Vacuum cleaning
Gas Air Heater	Internal cleaning (vacuum) – Clearing and vacuuming of build ups, oil spillages and debris
Secondary Air cross Over Duct, Secondary Ari Horizontal Duct& Secondary Air Vertical Duct Cross	Internal cleaning – vacuum & wash

Balancing Ducting				
FD/ID Fan Casing internal Cleaning		Removal of ash, Vacuum & wash – Removal of ash Internal cleaning for inspections & repairs		
4. Pulse Jet Fabric Filter Plant Area.				
NO.	**Area to be Cleaned**	**Method**	**Recommended Equipment**	**Frequency**
4.1	Area around the boiler and (PJFFP) Pulse Jet Fabric Filter plant, Hoppers pipework, floors. All levels of the PJFF plant Cell cleaning Clearing of blockages inside the hoppers and emptying of hopper	Sweep, wash, clean, clear ash spillages, remove debris, dust and clear oil spillages, Clear the blockages	Brooms, wheelbarrows, bobcat, Vacuum machines, tipper truck. Vacuum truck, industrial vacuum machine Vacuum truck (ash might be hot – suitable pipe required)	Daily As and when required As and when required
4.2	Pulse Jet Fabric Filter Plant (All levels) Drains and trenches	Sweep and pick up debris Clear ash in the drains/trenches remove sludge /de-scale/vacuum slurry in the trenches	Industrial vacuum machine, shovels, vacuum truck and floor washing. **NB: Do not wash ash into the drains** HP cleaning/HP guns	On top weekly and on the bottom daily On request
5. ID, FD and PA fan Plant Area.				
NO.	**Area to be Cleaned**	**Method**	**Recommended Equipment**	**Frequency**
5.1	FD fan area PA, FD and ID fans Lubrication systems, Fans casing, pedestals, Bearings, Motors, Fans cooling pipes and oil tanks. Lubrication cubicle	Remove Dust, remove oil stains, clear oil spillages, floor washing and remove debris. Internal vacuuming of ash	Brooms, feather dusters, cleaning cloths, absorbent fibres, walk behind sweeper, ride on sweeper Industrial vacuum machines, vacuum truck	Daily On request
5.2	ID fans casing, bearing and	Sweep, remove	Brooms, feather dusters,	Daily

	motors, cooling water and lube oil system and pipes, ID fans pedestals, and pipe trenches	debris /debris, empty dust bins, Dust, clear debris /water, clear oil spillages/stains, and chemical clean pedestals	cleaning cloths, absorbent fibres,	
5.3	Smoke stack floor, area around and the ducts from ID fan to the smoke stack and the lifts	Pick up debris /papers, Dust /sweep floor, dust and clean the duct	Brooms, feather dusters, cleaning cloths	Daily
6.3	Daily removal of all waste from the waste bins in all plant areas into appropriate skip bins is a must.			

B. Scope of Work (Outside Plant/BOP/OTHER)

The contractor shall be responsible for the following areas:

1. **Fuel Oil Plant**
2. **Switchgear, Substation, Equipment, Battery, MV, LV rooms, etc. and related cable tunnels/basements (Units/BOP/FGD)**
3. **Auxiliary cooling West area**
4. **Water Treatment Plant**
5. **Auxiliary Boiler Area**
6. **Compressor Plant Area**
7. **Auxiliary Cooling Plant East Area**
8. **LP Service**
9. **Clean and Dirty Recovery Dams Area**
10. **Sewage Treatment Plant**
11. **Waste Water Treatment Plant**
12. **All sumps**
13. **BOP And Unit Control Rooms, Offices, boardrooms, Kitchen and Bathrooms Area**
14. **Areas outside the plant and support services scope**
15. **Cleaning of major spillages and rehabilitation**

1. Fuel Oil Area				
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 oil tank area	Remove dust, sweep floor. Degrease oil stains, clear oil spillages, remove debris and clear dust bins. This includes major spillages	Brooms, dusters, absorbent fibre, degreaser, vacuum truck	Daily and on request when there are spillages
1.2	Main tank area including the staircases, the bund wall, the drains, pipework.	Remove dust, sweeping, polishing. Clean/remove spillages, degreasing of oil spillages. Unblock drains	Brooms, dusters, absorbent fibres, sand, vacuum truck	Daily
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 debris waste and pick up debris. Empty drip trays	Brooms, dusters, absorbent fibres, scoops	Weekly
1.4	Foam stations, Fire Hydrant systems and LV rooms	Dust, sweep, Pick up debris and empty the bin.	Brooms, dusters, cleaning cloths	Bi Weekly

	basement.			
1.5	Internal cleaning of the fuel oil tanks	Pumping or transfer of fuel oil onto another tank, 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 area in appropriate waste drums or containers.	Vacuuming, pumping	As and when required
2. Switchgear, Substation, Equipment, battery, MV, LV, etc. rooms and their cable tunnels/basements (Units/BOP/FGD)				
2.	All LV and HV substation, switchgear rooms, MV rooms, LV rooms, Equipment rooms and battery rooms on site and their basements/cable tunnels. Related cable tunnels/basements (below ground level) **Note:** Only authorised people or people working under direct supervision of authorised person (in terms of ORHVS access) are allowed to access the switchgear rooms, Substations, equipment, MV and LV rooms.	Sweep, pick up debris /papers, wash and polish the floors, empty bins. Vacuum where required Vacuum, unblock drains and water channels, pick up debris, remove slurry	Brooms, feather dusters, and cleaning cloths, mop, buckets and floor polisher Industrial Vacuum machine shovels and wheel burrows (establish a method of moving wheel burrows from the basement to 0 m level)	Daily As and when requested
3. Auxiliary Cooling West Plant Area				
	West 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.			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
3.1	Auxiliary cooling system (West) all components	Sweep, pick up debris /papers internal cleaning of	Brooms, nets, absorbent fibre, walk behind sweeper	Bi weekly

	including the ponds, floors, both closed and open systems, drains	the ponds, remove dust, clear oil spillages and remove oil stains on the floor ockages 4 ponds every three months	or ride on sweeper, vacuum truck Vacuum truck, high pressure cleaners	As and when required
3.2	Auxiliary cooling, all pumps, screens, fans, motors, tanks, pipe work and transformer yard	Sweep, dust, clear spillages. Pick up debris, clean dip trays and empty dust bins.	Brooms, cleaning cloths, feather dusters	Daily
3.3	Station Service Building (BOP) area, pumps, pipework and valves.	Sweep, remove dust. Clear spillages; pick up debris, clean dip trays and empty dust bins.	Brooms, cleaning cloths, feather dusters, absorbent fibres	Daily
3.4	Area around the 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 debris/papers	Nets, brooms, cleaning cloths, absorbent fibres	Weekly
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 debris	Brooms, cleaning cloths, feather dusters, absorbent fibres	Weekly
	4. Water Treatment Plant Area			
4.1	Water Treatment Plant building and temporary water treatment plant external cleaning of components, floors, gratings, handrails and walkways, basements, pumps, motors, valves, pipe work, and Offloading bay.	Dust, sweep, clear spillages, remove debris/papers/rubbles, and empty bins, floor washing	Brooms, cleaning cloths, absorbent fibres, hose pipes, walk behind sweeper or ride on sweeper	Daily
4.2	Water treatment Plant Sub Station West and transformer area.	Dust, Sweep, pick up debris / papers / debris, empty bins, clear oil spillages	Brooms, cleaning cloths, feather dusters, absorbent fibres	Weekly
4.3	Demin tanks and mobile demin plant.	Dust, Sweep, pick up debris / papers/debris	Brooms, cleaning cloths, feather dusters,	Weekly
4.4	Cleaning of the Chlorine tank	Supplier to submit method of cleaning for approval to the Services manager		On request
	5. Auxiliary Boiler Area			
5.1	Auxiliary boiler plant area, floor, motor, pumps, piping, walkways	Dust, Sweep, pick up debris/papers /debris, empty bins, clear oil spillages	Brooms, cleaning cloths, feather dusters, absorbent fibres	Daily
5.2	All the canals on the south	Pick up debris/ papers,	Brooms, cleaning cloths,	Monthly

	side of the station surrounding the ground area.	empty bins /skips / Silt trap, and clean canal	feather dusters, absorbent fibres, vacuum	
	6. 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			
6.1	Area around the compressor pump house and inside the compressor pump house.	Pick up debris, Sweep, remove dust and clean	cleaning cloths, industrial vacuum machine(s), absorbent fibres and litter picker	Daily
6.2	Outside the compressor plant	Sweep, Pick up debris / papers/ rubbles, empty dus bins, wash the floors	Brooms, cleaning cloths, feather dusters, hose pipes	Daily
	7. Auxiliary Cooling East Area			
	East: Auxiliary Cooling (North area is covered by Office road to security gate 1, and where HV and Office road)			
7.1	Road to Access control building and parking area. Unblock drains	Sweep, Pick up debris / papers/ rubbles, empty dus bins/skips ɔckages	Brooms, metal rods, walk behind sweeper or ride on sweeper Vacuum truck, high pressure cleaners	Daily As and when required
7.2	Auxiliary cooling, all pumps, screens, fans, motors, tanks, pipe work and transformer yard	Sweep, dust, clear spillages. Pick up debris, clean dip trays and empty dust bins. Unblock drains	Brooms, cleaning cloths, feather dusters	Daily
7.3	Service transformer area.	Sweep, dust Pick up debris / papers / rubbles, empty dust bins/skips	Brooms, cleaning cloths, feather dusters, absorbent fibres and litter picker	Daily
7.4	All the areas in and around the workshops, Stores, canteen, Garage and stores area. Fire and First aid area	Sweep, Pick up debris / papers / rubbles, empty dust bins/skips.	Brooms, cleaning cloths, feather dusters, absorbent fibres, and metal rods	Daily
	8. LP Services Area			
8.1	The area around the LP gas tank, diesel generator rooms and diesel fire pump houses. Diesel tank bund area, fire protection tank room, underneath the fire water tank and the surrounding area	Sweep, Pick up debris / papers / rubbles, empty dust bins/skips, Clear spillages, dust all components and remove unused material.	Brooms, cleaning cloths, feather dusters, absorbent fibres, litter tong	Weekly
8.2	H2, N2 plants and surrounding areas, CO2 and H2 storage yard and H2 room.	Sweep, Pick up debris / papers / rubbles, empty dust bins/skips, Clear spillages, dust all components and unused material.	Brooms, cleaning cloths, feather dusters, absorbent fibres	Weekly
	9. Sewage Treatment plant			
9.1	Ferric chlorine dosing building, air compressor room, chlorine gas station, chlorine dosing room, pump and blower room, yard	Dust, sweep, clear spillages, wash windows, remove debris/papers/rubbles, and empty bins/wash floors	Brooms, feather dust, mop, bucket, cleaning cloths, litter tong, road sweeper	Daily
9.2	Sewage pump station 1, 2 and 3	Vacuum/Clear/wash/scr ap sludge in the pit. Pump raw sewage out		On Request

	10. Waste Water Treatment Plant Area			
10.1	Waste Water Treatment Plant building, external cleaning of components, floors, gratings, hand rails and walkways, basements, pumps, motors, valves, pipe work, and Offloading Bay.	Dust, sweep, clear spillages, remove debris/papers/rubbles, and empty bins/wash floors	Brooms, cleaning cloths, absorbent fibres,	Daily
10.2	Waste Water treatment Plant Sub Station/ switchgear rooms, MV room, LV room and transformer area.	Dust, Sweep, pick up debris/papers/debris, empty bins, clear oil spillages	Brooms, cleaning cloths, feather dusters, absorbent fibres	Daily
10.3	Raw water dam	pick up debris/papers/debris, empty bins, clearing of any spillages		Weekly
	11. All Sumps			
11.1	Water channel leading into the degritting sump and all sumps in the stations.	Clean channel /de-scale/vacuum slurry in the channel, pressure wash and/or degreasing where it is requested. The sludge will be disposed at the ash dump. The Services Manager will advise on the specific area to be utilised for dumping the sludge.	Monthly basis/on request	
11.2	Other sumps at the water treatment plant. Potable Sump (incl. inlet channel), cation supply sump, 2x Effluent sumps, 4x clarifiers (incl. inlet & outlet channel), Boiler blow down recovery sump, backwash recovery sump, sludge sump, clarifiers, clarifier drains, Potable Head Tank, Clean and dirty tanks.	Internal cleaning of the sumps and tanks, clear the algae/ sludge – this includes pumping out of water. Vacuum, use of shovels .	On request	
	12. Control Room, Offices , Kitchen and Bathroom Area			
	Area to be Cleaned	**Method**	**Recommended Equipment**	**Frequency**
12.1	Operating Control rooms (BOP, WTP, FGD, Units and EOD), Offices and boardrooms at the BOP, Aux bay 1 and 3 (16 m and 9 m levels), bathrooms (BOP, Aux bay 1 and 3). Kitchens and passages (BOP, Aux bay 1 and 3). **Note: this scope will only be executed under this contract for the first six months of the contract.**	Sweep, Dust, Mop and wash and polish the floor. Wipe clean cupboards (inside and out) with a damp cloth, wash fridges (inside and out) and clean microwaves inside. Clean the walls, doors and handles. Wash cups, dishes, cutlery etc.	Brooms, mops, buckets, cleaning cloths, dish cloths Consumables required will be supplied by the Contractor, including but not limited to: replenishing of hand wash liquid soap, toilet papers, air freshener	Daily incl. weekends and public holidays

	13. Areas outside the plant and support services scope			
13.1	Cleaning all the areas that are outside the plant	remove debris/papers/rubbles,	Pick up the papers, wash the floors	Twice a week
13.2	Control the on and offloading activities, movement of material e.g. H2, CO2 and LPG gas bottles/pallets. Movement of material around different plant areas e.g. removing of empty H2, CO2 and LPG pallets and placement of full pallets. Changeover of H2/ CO2 and LPG bottles/ pallets. Escorting of (H2/CO2/LPG/diesel) delivery trucks to site.	Driving Forklift	Use forklift, LDV	As and when required
13.3	All parking area around, and roads,	Sweep, pick up debris and papers drains	Brooms, metal rods, vacuum truck, HP cleaning	Daily As and when required
13.4	All tar road inside the perimeter fence of Kusile Power Station, including the paved area	Sweep road, pick up papers, rubbles	Mobile/ride-on sweeper, brooms, feather dusts, metal rods (for paper picking)	Daily

The following precautions need to be followed when executing the work:

1. Care should be taken on rotating plants.
2. Gratings on the plant to be vacuumed as and when required.
3. Care to be taken when washing in the vicinity of electrical motors, not spray water onto the motors.
4. No tempering with instruments is allowed.
5. All ash and coal must be removed from paving and floors before using water for floor washing.
6. The contractor shall supply sufficient water pipes and hoses for all washing activities on the plant to happen concurrently.
7. For all the areas that are not accessible through walkways a scaffold will HAVE TO BE BUILT.
8. Vacuuming is the preferred method of cleaning where there is ash, dust and PF.
9. Ash removed in the silt traps 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.
10. No cleaning fluid/water is to enter into the tanks or onto motors, cubicles, DB boards, etc.
11. Care should be taken when cleaning on the running motors and pumps.
12. Open electrical panels not to be cleaned.
13. Obtain LAR and keys for Diesel generators, Transformer yards and Switch gear rooms, etc.
14. Do not climb on the Diesel Gen, Transformer or any other equipment to clean.
15. The contractor will be expected to have a standby team to cater for emergencies. A minimum of 5 and maximum of 10 people will be on standby including the supervisor. The standby team will rotate every week and the standby roster will be updated every Friday by 10H00, roster will be submitted to the Services Manager or the delegee.

Disposal of clean ups

1. All spillages must be cleared before end of every shift.
2. All clean ups must be done in a controlled manner.
3. All waste must be separated according to their specific categories.

NOTE

Others:

1. Some of the work will involve your employees working in confined spaces, please provide the necessary safety gear for working in confined spaces and training that might be required.
2. Some of the work will involve your employees in working at heights, provide the necessary safety gear and training for working at heights.
3. Should the Contractor require the use of fire hydrant water, the Contractor shall request permission in writing from the Services Manager.
4. Employees that will be cleaning in the switchgear/MV/LV rooms, they will need to wear Category 2 Arc Flash suits and under garments to be made of 100 % cotton when cleaning these areas. The contractor shall establish a process that will monitor that the 100 washes are not exceeded per suit.

lean up of major spillages and rehabilitation

Kusile Power Station generates electricity through using products such as coal, fuel oil, etc through safest forms. However, spillages may occur due to unforeseen causes. In cases where a spillage has occurred, it becomes very critical that the response time is kept minimal. Good response time may reduce the severity and extent of a spill.

Section 30 of NEMA and Section 20 of NWA have strict guidelines on how emergency incidents must be reported to the relevant authorities. Emergency reporting must be done within specified timeframes. For instance, the alarm or initial report must be done within 24 hours. Also in most cases, spilled product (fuel oil/ash/coal) must be contained within the first few hours, failing which it becomes a difficult task and more costly to recover the product. The risk to the surrounding environment and human beings may also increase if the free phase product is left uncontained for an extended period of time.

- Providing signage as required to ensure order and control on site, this includes “no entry”, “assembly points” and “no smoking” signs.
- Putting measures in place to control and secure the incident site within the first few hours, e.g. dig cut-off trenches to stop further flow of product.

- Removal, transportation and disposal of soil and other contaminated material at an approved hazardous landfill site in terms of NEM: WA or ECA. Waste Manifests and waste disposal certificates must be provided as proof that a registered landfill site was used for waste disposal.
- Recording of static water level on a regular basis as directed by the relevant specialist.
- Pumping out, treatment and disposal of contaminated water and hydrocarbons from boreholes and trenches. Pumping of water must be done in a responsible manner and must not lead to erosion, secondary contamination and depletion of groundwater resources.
- Application of remedial material e.g. Peat sorb and booms to absorb free phase product.
- Providing clean and compatible backfill material in line with Eskom standards, where contaminated bedding material has been removed.
- Measuring and pumping of free phase product from trenches and boreholes.
- Ensuring that the vehicles that transport hazardous substances from the site comply with the SANS Codes for the Transportation of Dangerous Goods. Written proof to support this must be provided.
- Provision of appropriate clean-up equipment and suitably qualified personnel required to carry out the work efficiently and within legal requirements.
- Collation and submission of relevant information regarding the remediation to Kusile Power Station in line with legal requirements.
- Ensuring alignment of remediation activities with South African and relevant international standards. Remediation must also be in line with authorities requirements.
- Excavation of highly contaminated material and backfilling with clean material.
- Application of bio solve or other suitable material necessary to breakdown the hydrocarbons and aid the remediation process.
- Creation and management of bio pads (or other forms of remediation process) until soil is fully remediated in line with legal requirements.
- Provision of PPE necessary to carry out the work safely, PPEs to be in line with legal requirements.
- Ensuring that remediation site is left in an acceptable condition after clean-up is completed.
- Interaction with relevant specialists to ensure that findings from site assessments are implemented. The specialists could include wetland, geohydrologist, water, toxicologist and air specialist.
- Provision of dust control measures, e.g. watering where required.

Reporting

- Remediated site reports.
- Management of spill site and remediation process.
- All reporting requirements as required by authorities and legal requirements.
- Waste manifests and safe disposal certificates for all hazardous waste disposed in line with the NEMA Waste Classification and Management Regulations (2013).

1.2.1 Additional requirements and services to the above table:

Labour:
Responsibility lies with the contractor to employ sufficient labour to ensure that the cleaning services are delivered timeously and adequately. In the event of increased scope requiring more labour then the minimum number of employees per supervise must apply in compliance with the Labour Relations Act.

A full complement to be always in place, the contractor will ensure that the complementary staff is available during any absence of a worker or any abnormal situation i.e. leaves, training etc.

The contractor will be expected to use local labour to provide the cleaning services on the Kusile site.

Base for Service:
The contractor is expected to operate this service within close location of the Kusile Power Station Sites, at least 70 km's radius to ensure timeous and quality service deliverables.

Transport:
For the provision of labour, consumables and any other services related to the services contract will be managed by the contractor

Standard PPE, including any specialized equipment is the responsibility of the contractor.

lean up of major spillages and rehabilitation

Kusile Power Station generates electricity through using products such as coal, fuel oil, etc through safest forms. However, spillages may occur due to unforeseen causes. In cases where a spillage has occurred, it becomes very critical that the response time is kept minimal. Good response time may reduce the severity and extent of a spill.

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- Providing signage as required to ensure order and control on site, this includes "no entry",

"assembly points" and "no smoking" signs.

- Putting measures in place to control and secure the incident site within the first few hours, e.g. dig cut-off trenches to stop further flow of product.
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1.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
C.V.	Curriculum Vitae
BEE	Black Economic Empowerment
N.B.	Note Briefly
Etc.	Etcetera
QA	Quality Audit
QC	Quality Check

2 Management strategy and start up.

2.1 The *Contractor*'s plan for the *service*

The contractor's method statement should include the following:

- List of the number of people allocated to provide the services
- The availability of each resource
- A list of Industrial equipment that will be utilised
- How workers will be transported to site
- A Daily/Weekly Check-sheet detailing completed activities
- A Quality control plan

Within 4 (four) weeks of the contract start date, the *Contractor* ensures that staff is fully Complemented to perform duties in line with the scope of work.

Service to be delivered on a daily basis as stipulated in the scope of work and should not be affected in the event of absenteeism.

The *Contractor* ensures that the work schedule for the service is revised if the need arises and ensures effective planning is done to carry out the works. E.g. materials permits to work, scaffolding etc.

2.2 Management meetings

2.1 The *Contractor*'s plan for the *service*

The contractor's method statement should include the following:

- List of the number of people allocated to provide the services
- The availability of each resource
- A list of Industrial equipment that will be utilised
- How workers will be transported to site
- A Daily/Weekly Check-sheet detailing completed activities
- A Quality control plan

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Service to be delivered on a daily basis as stipulated in the scope of work and should not be affected in the event of absenteeism.

The *Contractor* ensures that the work schedule for the service is revised if the need arises and ensures effective planning is done to carry out the works. E.g. materials permits to work, scaffolding etc.

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Contract Handover	On commencement date of the Contractor	*Employer's* site	*Employer*, *Contractor*, *Contract Supervisors*
Compensation events	As the need arises	Task Order	*Employer* and *Contractor*
Overall contract progress and feedback	Monthly on 7th day of each month	*Employer's* site	*Employer*, *Contractor* and *Contract Supervisors*
Weekly inspection	To agreed date between the *Employer* and *Contractor*	*Employer's* site	*Employer* and *Contractor*

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*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. 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.

2.3 *Contractor*'s management, supervision and key people

The Contractor provides an organogram of the proposed company structure with the tender showing the number of people, all relevant designations and applicable qualifications.

It is necessary for the *Contractor* to have a dedicated *Site Supervisor* appointed to manager all site activities.

The Supervisors must have completed matric (Grade 12), have prior work experience of at least 2 (two) year performing supervision and be fully capable of overseeing activities. Effective verbal and written communication in English is required as well as attendance of meetings for reporting purposes and performing any other activity required.

The *Contractor* and the *Contractors Supervisor* works closely with all *Employer's* personnel

2.4 Provision of bonds and guarantees

N/A

2.5 Documentation control

A method statement that includes the overall site cleaning strategy.

A programme on how daily activities will be done as per scope including checklists.

An Assessment Certificate will be issued by the *Employer* at the monthly basis prior to issue of an invoice.

A Task Order will be issued by the *Employer* for any additional material or service requirement

Minutes of Meetings must be recorded using minutes or a register prepared and circulated by the person who convened the meeting.

2.6 Invoicing and payment

Within one week of receiving a payment certificate from the *Service Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice showing the amount due for payment equal to that stated in the *Service Manager*'s payment certificate.

The *Contractor* shall address the tax invoice to

_____

and include on each invoice the following information:

- Name and address of the *Contractor* and the *Service Manager;*
- The contract number and title;
- *Contractor*'s VAT registration number;
- The *Employer*'s VAT registration number 4740101508;
- Description of service provided for each item invoiced based on the Price List;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required)

The Employer has now introduced an online system for all payments made.
All invoices must be submitted electronically to:
invoiceseskomlocal@eskom.co.za, *refer to Annexure A in this regard*

2.7 Contract change management

Additional service or material as indicated on the Price List for additional cleaning requirements

2.8 Records of Defined Cost to be kept by the *Contractor*

N/A

2.9 Insurance provided by the *Employer*

As indicated in document C1.2 TSC3 Contract Data, Core Clause 86.1

2.10 Training workshops and technology transfer

- The *Contractor* ensures that all its personnel attends workshops/meetings scheduled by the *Contractor's* such as Safety Inductions, Pre-Outage or any other that will affect the *works.*

- The *Contractor* makes provision of all the necessary training required to carry out the work that includes:

On job training in line with duties expected to be performed including the use of hazardous chemical; working at height etc.

2.11 Design and supply of Equipment

All equipment used to carry out the works must be suitable to carry out cleaning work.

2.12 Things provided at the end of the *service period* for the *Employer*'s use

2.12.1 Equipment

N/A

2.12.2 Information and other things

A task order will be issued by the *Service Manager* that must be to be accepted by the *contractor* prior to commencement of work.

Additional material requested will be delivered to site and be received by the *Service Manager*.

2.13 Management of work done by Task Order

Only use this heading if Option X19 applies to this contract.

In some cases all work may be done in terms of Task Orders in which case it may be logical to move this section closer to the start of this part 2 of the Service Information. In some cases only parts of the *service* may require to be handled by Task Order, for example a major repair which has become necessary during a continuous maintenance service contract.

Please read Option X19 before drafting requirements here as much of the procedure for the administration of Task Orders is already provided in X19, for example X19.2 specifies what a task Order should include

A Task Order format could be provided in an Annexure to this Service Information.

Many considerations can apply to Task Orders, such as availability of resources, arrangements for emergency work, Task Order reporting (work carried out and service results), assessment of additional Prices for *service* not included in the Price List etc.

Clause X19.6 requires information which should be included on a Task Order programme.
Further requirements for Task Orders include things to be provided by the *Employer* under a Task Order and the conditions under which the *Employer* or Others are to work.

A task order will be issued by the *Service Manager* that must be to be accepted by the *contractor* prior to commencement of work.

Additional material requested will be delivered to site and be received by the *Service Manager*.

3 Health and safety, the environment and quality assurance

3.1 Health and safety risk management

The *Contractor* shall comply with the health and safety requirements listed below:

- Occupational Health and Safety Act – 85 of 1993
- Eskom Safety Procedures as included in Point 1.3.

The Contractor takes every precaution to ensure safety and to protect the Works and temporary Works.
The Contractor is responsible for the safety and security of his personnel, materials on site and the Works at all times.
The Contractor adheres to the safety regulations pertaining to the power station.

The Contractor provides all the required safety and personal protective equipment to his staff for the duration of the contract.
The Contractor and his personnel attend an induction meeting on site and sign the attendance sheet provided as proof of attendance.
The Contractor provides a comprehensive SHE (Safety Health and Environmental) Plan based on the risk assessment in the Attachment A, performed by the Employer.
The Contractor also identifies his own risks and provides this in the SHE plan to the Employer.

Eskom Kusile power station site construction site rules have to be adhered to by the Contractor and staff. Induction will be given by Eskom in this regard.
The Employer will require important health and safety specifications to be considered and submitted before work could start. Method statements, risk assessments and mitigation need to be contained and submitted as part of the SHEQ file with specific focus on the following:

- The method of cleaning, risk assessment and mitigation with specific focus on Material Safety Data Specifications (MSDS sheets) per cleaning chemical need to be submitted by the Contractor at tender stage , • Cleaning of windows on the outside of the buildings would be a challenge as some of these windows are on first floor level. The method of cleaning to be clearly stated, risk assessment and mitigation to be done.

- If working at heights is part of the operation staff involved to be medically tested, trained and authorized to work at heights. The Contractor to indicate during tender stage if working at heights will be part of the operation.

3.2 Environmental constraints and management

The Contractor complies with all legislative, Eskom and Kusile PS environmental policies.

3.2.1 Environmental Standard:

3.2.2.1 Legislation:

Comply with all environmental legislation of South Africa in respect of controlling air pollution, water pollution and waste disposal, etc.

3.2.3.1 Green Practices:

The Contractor must carry out good environmental practices in carrying out the works for conserving the global & local environment. Such practices shall include but not be limited to the replacing all chemical based cleaning agents by other natural/organic alternatives.
During sweeping and dusting, the Contractor shall ensure that a minimum amount of dust is liberated into the atmosphere. The use of compressed air for cleaning is prohibited.

3.2.3.2 Waste Management

Domestic – all bins must be replenished with plastic disposable bags and when full moved to the designated waste areas within each area of the works.

All waste must then be disposed of in the following waste bins:

- Normal Yellow dust bin-all soft waste
- Maroon bins - all steel and iron scrap
- Orange bins – Hazardous material like Oil, grinding discs etc.

No waste material must be accumulated or stored anywhere other than in the designated area.

Waste removal from the designated site will be provided for by the Employer.

3.3 Quality assurance requirements

The quality requirements are as per Eskom Supplier Quality Requirements Specification QM58

- The Contractor defines the level of QA/QC or inspection imposed on his suppliers.
- The programming of inspections, hold and witness points is agreed between the Employer and the Contractor prior to undertaking any work.
- The *Contractor* maintains a high standard of workmanship, as expected by the Employer and shall comply with any quality assurance and quality procedures implemented by the *Employer*.
- These methods to be employed by the Contractor are designed to ensure that regular maintenance is carried out at the highest quality.

4 Procurement

N/A

4.1 People

4.1.1 Minimum requirements of people employed

C.V's of detailed work experience. For Purpose of Vehicle and equipment operations

4.1.2 BBBEE and preferencing scheme

As per Preferential Procurement Policy Framework Act 2000 (Act No.5 of 2000) and as per updated Codes: Section 28 of the Employment Equity

4.1.3 SDL&I

4.2 Subcontracting

4.2.1 Preferred subcontractors

Subcontracting will not apply. Cross-hiring of equipment is allowed.

4.2.2 Subcontract documentation, and assessment of subcontract tenders

N/A

4.2.3 Limitations on subcontracting

The *Employer* may require that the *Contractor* must subcontract certain specialised work, or that the *Contractor* shall not subcontract more than a specified proportion of the whole of the contract.

4.2.4 Attendance on subcontractors

State requirements for attendance on Subcontractors, if any

4.3 Plant and Materials

4.3.1 Specifications

Materials used for this service is subject to the *Employers prior* acceptance. Material Data Sheets to be provided for all chemicals to be used for cleaning purposes.

2.1.1 Correction of defects

Service – area not serviced will result in non-payment
Materials – replacement of product to *Employers* standard and acceptance.

2.1.2 *Contractor*'s procurement of Plant and Materials

Material list to be provided of all products, no plant or materials procured for the purpose of providing the service shall contravene the Safety & environmental and site regulations.

2.1.3 Tests and inspections before delivery

Cleaning material and toiletries will be inspected randomly by the *Service Manager/ Contract Supervisor* prior to use on site.

2.1.4 Plant & Materials provided "free issue" by the *Employer*

4.3.2 Correction of defects

Service – area not serviced will result in non-payment
Materials – replacement of product to *Employers* standard and acceptance.

4.3.3 *Contractor*'s procurement of Plant and Materials

Material list to be provided of all products, no plant or materials procured for the purpose of providing the service shall contravene the Safety & environmental and site regulations.

4.3.4 Tests and inspections before delivery

Cleaning material and toiletries will be inspected randomly by the *Service Manager/ Contract Supervisor* prior to use on site.

4.3.5 Plant & Materials provided "free issue" by the *Employer*

Nil

4.3.6 Cataloguing requirements by the *Contractor*

5 Working on the Affected Property

All *Contractors* will interphase with various areas and different people on the *Contractors* site and will be required to conduct their duties in a professional manner.

The contractor must comply with the South African Labour Relations Act and ensure that their staffs are compensated with a fair and reasonable wage.

The contractor provides a minimum of one Supervisor and five trained and qualified labour to perform cleaning.

The contractor provides his duties in accordance with the provisions of Labour Relations Act, 1995 made and entered into by and between, The National Contract Cleaners Association.

5.1 *Employer*'s site entry and security control, permits, and site regulations

- No access will be granted to the Contractor's employees without proof of medical examinations and safety induction training attendance.
- All contractor personnel is carefully screened and issued with ID tags. The Employer has the right to deny access to any person not having proper identification.
- All Contractor personnel are subject to an alcohol breathalyser test prior to entering the Employer's premises. Any personnel found under the influence of alcohol will not be allowed on the Employer's property.
- Asset registers of all tools and equipment incorporated or consumed in providing the service shall be maintained by the contractor and shall be audited and inspected by Employer from time to time.
- The Employer must supply all equipment, cleaning materials and safety equipment required to provide the cleaning services required, The Contractor provide personal protective equipment required.
- All management and staff must comply with the security requirements of the Kusile Pumped Storage Scheme.

5.2 People restrictions, hours of work, conduct and records

A temporary medical station is available during construction on site and is subject to fall away. First aid services are available on site.

5.3 Health and safety facilities on the Affected Property

A medical station is available during construction on site and is subject to fall away.

First aid services are available on site.

5.4 Environmental controls, fauna & flora

N/A

5.5 Cooperating with and obtaining acceptance of Others

This sub-paragraph could be used to deal with two issues.
1) The cross reference from core clause 25.1 about cooperation generally as well as details about Others with whom the *Contractor* may be required to share the Affected Property. See clause 11.2(9) for the definition of Others.
2) Requirements for liaison with and acceptance from statutory authorities or inspection agencies.

5.6 Records of *Contractor*'s Equipment

The Contractor submits a list of all equipment and tools (with serial numbers, wherever possible) to the Security office in order to get approval before the items can be brought onto site. The security waybill process will apply for any movement of equipment.
Equipment and vehicles left on site is done so at the Contractor's own risk.
Equipment brought onto site for one day must also be declared at security and a separate form signed and approved. All materials can only be removed from site by means of a removal permit issued by the Employer.

5.7 Equipment provided by the *Employer*

Access to mobile cranes and equipment will be given based on availability and on condition that only site authorised personnel may operate mobile cranes, forklifts and cherry pickers.

5.8 Site services and facilities

5.8.1 Provided by the *Employer*

- The Employer may provide a site for the Contractor with an office and space for equipment and material, if space available.

- Sanitary and ablutions, showers with basin facilities, canteen area, water and electricity are also provided by the Employer free of charge.

5.8.2 Provided by the *Contractor*

- The Contractor is to supply all the personal protective equipment, transport, meals, tools, equipment, facilities, consumables and every other item of expense necessary to perform the required service on site.

5.9 Control of noise, dust, water and waste

- During sweeping and dusting, the Contractor shall ensure that a minimum amount of dust is liberated into the atmosphere. The use of compressed air for cleaning is prohibited. No deviation from the South African Labour Relations Act and any other relevant labour legislation will be allowed.

5.10 Hook ups to existing works

N/A

5.11 Tests and inspections

5.11.1 Description of tests and inspections

N/A

5.11.2 Materials facilities and samples for tests and inspections

N/A

6 List of drawings

6.1 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
N/A		

Annexure A – Scope of work