

		OCCUPATIONAL HEALTH & SAFETY: BASELINE RISK ASSESSMENT												
		NYLSVLEI NATURE RESERVE CONSTRUCTION OF NEW STAFF ACCOMMODATION												
PROJECT NAME:		NYLSVLEI NATURE RESERVE CONSTRUCTION OF NEW STAFF ACCOMMODATION								DATE: 03 JULY 2026				SIGNATURE
CONTRACTOR:		PRINCIPAL CONTRACTOR: TO BE APPOINTED (DEL-Registered/Licensed Asbestos & Demolition Contractor Required)								Prepared by: DELFORD DOVOROGWA - Pr. CHS AGENT				
Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person	
									Probability	Severity	Risk Rating			
Site Establishment	Ergonomics	work resulting in repetitive motion	Unsafe condition	Injury	S	X			P4	I3	L2	Ergonomics procedure	Principal Contractor	
												Training, communication and awareness		
												Job breaks		
												Job rotation		
	Traffic	Employees being struck by moving vehicles	Unsafe condition	Injury	S	X			P3	I5	L1	Sufficient barricading of area using safety net and delineators, plastics safety cones	Principal Contractor	
												Signs and notices for motorists		
												Flagmen		
												Supervision		
												Safe working procedure - Traffic management		
												Training, communication and awareness		
												Traffic accomodation plan		
	Sharp edges	Employees coming in contact with sharp edged tools	Unsafe condition	Injury	S	X			P3	I3	L2	Safe work procedure	Principal Contractor	
												Posting of signage		
												Housekeeping		
												Task specific risk assessment		
												Toolbox talks to raise awareness		
												Method Statement		
Competent Supervision														

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Noise	Noise induced hearing loss	Unsafe condition	Illness	S	X			P3	I3	L2	Isolation of non-working personnel Competent Supervision Hearing protection - Ear plugs/Ear muffs Noise survey Noise awareness in inductions and toolbox talks	Principal Contractor
	Dust	Inhalation of hazardous substances	Unsafe condition	Illness	S	X			P3	I3	L2	Dust Mitigation Procedure Dust Mitigation Procedure Posting of signage Isolation of non-working personnel Work area ventilation Proper use of PPE - Dust Mask (FPP2) Dust suppression Competent Supervision Dust awareness in inductions and toolbox talks	Principal Contractor
Transportation of material and equipment	Motor vehicle	Collision due to defective motor vehicle	Unsafe Condition	Injury	S	X			P3	I3	L2	Operator to have a valid drivers licence Operator to be medically fit for the job Pre- inspection of the vehicle Safe work procedure Adhere to road traffic rules and regulations	Principal Contractor
	Public	Theft/hijacking	Unsafe condition	Property loss	S	X			P1	I4	L2	Paying attention to media for areas with riots Keep the car locked at all times Emergency preparedness plan	Principal Contractor
	Road surface	Tyre damages due to road	Unsafe	Property loss	S	X			P1	I4	L2	Paying attention to media for areas with riots Communication media to contact emergency services Emergency preparedness plan	Principal Contractor

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	N O R M A L	A B N O R M A L	E M E R G E N C Y	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Road surface	potholes	condition	Property loss	S	X			P1	I4	L2		Principal Contractor
	Public traffic	Over speeding and colliding with other motor vehicles on the roads	Unsafe act	Injury	S	X			P1	I4	L2	Adhere to road traffic rules and regulations	Principal Contractor
working at heights	Elevated positions	Slip, trip and fall to the ground	Unsafe condition	Injury	S	X			P1	I3	L2	Safe work procure - Working at Heights and Fall Rescue	Principal Contractor
												Communication and training	
												Use of Fall Arrest System	
												Use of Fall prevention - Life line, guard rails	
												Barricading and demarcation	
		Tools and equipment falling to the ground	Unsafe condition	Injury	S	X			P4	I3	L2	Pre-inspection	Principal Contractor
												Isolation of none working personnel	
												Posting of signage	
												Barricading of work area	
	Working on the Ladder	Falling from heights while working on a ladder	Unsafe condition	Injury	S	X			P3	I4	L1	Pre inspection of ladders before use	Principal Contractor
												3 point contact when climbing the ladder	
												Safe working procedure	
												Training, communication and awareness	
												Barricading	
	Suspended Platforms	Falling from heights while working on suspended platforms	Unsafe condition	Injury	S	X			P3	I3	L2	PPE	Principal Contractor
												Supervision of Competent person	
												Operational Compliance plan	
												Certificate of system design	
scaffolds												Adequate outriggers with stop dices	Principal Contractor
												Inspections of all equipment(As required by legislation)	
												Training, communication and awareness	
												PPE	
												Pre-use inspection	
												Planned maintenance	
												Safe work procedure	

[illegible]

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Working with hand tools	Pinch points	Employees hands/fingers getting trapped between an object and the surface	Unsafe act	Injury	S	X			P3	I3	L2	Safe work procedure	Principal Contractor
												Use of cut resistant safety gloves	
												Training, communication and awareness	
												Avoid placement of hand between material	
	Defective tools	Malfunction of components leading to an accident	Unsafe Condition	Injury	S	X			P1	I3	L3	Pre-use inspection	Principal Contractor
												Planned maintenance	
												Safe work procedure - Use of hand tools	
												Training, communication and awareness	
	Wrong tools	Excessive force applied	Unsafe act	Injury	S	X			P3	I3	L2	Pre-task assessment	Principal Contractor
												Safe work procedure - Use of hand tools	
												Training, communication and awareness	
												Choose correct tools for the task	
												PPE	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Sharp edges	Employees coming in contact with sharp edged tools	Unsafe condition	Injury	S	X			P1	I3	L3	Inspections	Principal Contractor
												Safe working procedure - Use of hand tools	
												Training, communication and awareness	
												PPE	
Working with power tools	Exposed to electrical wires	Electrocution	Unsafe Condition	Injury	S	X			P4	I4	L1	Planned Preventative Maintenance(Schedules)	Principal Contractor
												Pre Start up checklist(inspections)	
												Safe Working Procedure - Use of power tools	
												Lock Out- Tag out procedure	
												Training, Communication & Awareness	
												Job Observation	
	Trailing cables	Trip and fall to the ground	Unsafe Condition	Injury	S	X			P4	I3	L2	Work area inspection	Principal Contractor
												Adequate housekeeping	
												Posting of signage	
												Supervision	
	Sharp edges	Employees coming in contact with sharp edged equipment	Unsafe condition	Injury	S	X			P1	I3	L3	Inspections	Principal Contractor
												Safe working procedure - Use of power tools	
												Training, communication and awareness	
												Supervision	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Flying particles	Eye contact with flying debris	Unsafe condition	Injury	S	X			P3	I3	L2	Machine guards	Principal Contractor
												Supervision	
												Job Observation	
												PPE - Dust masks, googles and gloves	
	Dust/Fumes	Inhalation of hazardous substances	Unsafe condition	Illness	S	X			P3	I3	L2	Dust Mitigation Procedure	Principal Contractor
												Posting of signage	
												Isolation of none working personnel	
												Work area ventilation	
												Use of PPE - Dust Mask (FPP1 -FPP2)	
	Noise	Noise induced hearing loss	Unsafe condition	Injury	S	X			P3	I3	L3	Isolation of none working personnel	Principal Contractor
												Supervision	
												Ear protection - Ear plugs/Ear muffs	
												Noise survey	
	Rotating and moving equipment	Hand or finger caught in between moving parts	Unsafe condition	Injuryu	S	X			P3	I3	L3	Safe operating procedure	Principal Contractor
												Training, communication and awareness	
												Competent work	
												Pre - Inspection	
												PPE	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Sparks	Fire outbreak	Unsafe condition	Injury	S	X			P3	I3	L3	Demarcate Welding/grinding bays with screens	Principal Contractor
												Planned Preventative Maintenance(Schedules)	
												Pre Start up checklist(inspections)	
												Safe Working Procedure	
												Training, Communication & Awareness	
												Job Observation	
												Emergency preparedness plan	
												PPE - Aprons, Spats, Goggles, Gloves, Dust Masks	
		Body burns	Unsafe condition	Injury	S	X			P3	I3	L2	Demarcate Welding/grinding bays with screens	Principal Contractor
												Planned Preventative Maintenance(Schedules)	
												Pre Start up checklist(inspections)	
												Safe Working Procedure	
												Training, Communication & Awareness	
												Job Observation	
												Emergency preparedness plan	
												PPE	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Using Mobile Equipment	Mobile Plant	Defective plant may result in accidents	Unsafe Condition	Injury	S	X			P3	I3	L1	Placement of Spotters/ Flagman Daily mobile Plant Pre-use inspections/cheklists Training, communication and awareness Planned plant maintenance Competent operators appointed in writing Competent Supervision Competent Safety Officer conducting inspections	Principal Contractor
		Site workers in blind spot may lead to accidents	Unsafe condition	Injury	S	X			P3	I5	L1	Training, communication and awareness Placement of Spotters/ Flagman Notices and signage Employees endorsing the brothers keeper principal	Principal Contractor
	Fumes/smoke	Inhalation	Unsafe condition	Illness	S	X			P3	I3	L2	Safe working procedure the exhaust Notices and signage PPE - Respirator (if applicable) Isolation of non-working personnel	Principal Contractor
	Noise	Noise induced hearing loss	Unsafe Condition	Illness	S	X			P3	I3	L2	Isolation of non-working personnel Competent Supervision Hearing protection - Ear plugs/Ear muffs Noise survey Noise awareness in inductions and toolbox talks	Principal Contractor
	Ergonomics	Still and repeated postures may result in body parts sprains	Unsafe Condition	Injury	S	X			P4	I3	L2	Job rotation Ergonomics procedure Job breaks Correct lifting techniques-bend knees not back Ensure one employee carries a maximum of 15 lifts per minute 2 hours with recovery time $\geq 0.3 \times$ lifting	Principal Contractor

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
												Competent Supervision	Principal Contractor
												Competent Safety Officer conducting inspections	
	Uneven ground	Overturning of mobile plant	Unsafe Condition	Injury	S	X			P4	I5	L1	Pathway assessment	
												Examine site layout	
												Housekeeping	
												Ground assessment	
												Safe work procedure	
												Competent and appointed operator	
												Medically fit operator	
Rigging and Slings Activities	Unsecured load	Load falls while moving	Unsafe condition	Injury	H	X			P4	I5	L1	Training, communication	Principal Contractor
												Task Planning - rigging study	
												Competent work	
												Verification Validity of Test certificates	
												Isolation of none working personnel	
												Demarcation and or Barricading	
												PPE - Gloves,	
				Property damage	S	X			P3	I3	L2	Training, communication	Principal Contractor
												Task Planning - rigging study	
												Competent work	
												Verification Validity of Test certificates	
												Isolation of none working personnel	
												Demarcation and or Barricading	
												PPE - Gloves,	
	Adverse weather conditions	Being faced with hail/rain storms, fog	Unsafe condition	Injury	H	X			P4	I3	L2	Pre- Task planning - Weather focus	Principal Contractor
												Rescheduling of work	
												Safe work procedure - Rigging and sligging	
												Pre- Task planning - Weather focus	
												Rescheduling of work	
												Safe work procedure - Rigging and sligging	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL X	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
				Property damage	S	X			P4	I3	L2	Use of certified slings to control load	Principal Contractor
												Communication and coordination between Operator and rigger	
												High visibility clothing	
	Swinging loads	Load can bump into other structures	Unsafe condition	Property damage	S	X			P4	I4	H1	Task Planning	Principal Contractor
												Use of a spotter or flagman	
												Communication and coordination between Operator and rigger	
												Reverse hooter and strobe light	
												PPE - Gloves Boots	
Concrete Works	Concrete Mixing	Concrete particles entering the eye and feet , Skin irritations	Unsafe act	Injury	S	X			P3	I3	L2	Communication, training and awareness	Principal Contractor
												Wearing of appropriate ppe	
												Constant Supervision	
Working with power rotating tools	Flying particles	Eye contact with flying debris	Unsafe condition	Injury	S	X			P3	I3	L2	Follow safe work procedures	Principal Contractor
												Machine guards	
												Supervision	
												Job Observation	
												PPE - Dust masks, googles and gloves	
	Noise	Noise induced hearing loss	Unsafe condition	Injury	S	X			P3	I3	L2	Isolation of none working personnel	Principal Contractor
												Supervision	
												Ear protection - Ear plugs/Ear muffs	
												Noise survey	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Rotating and moving equipment	Hand or finger caught in between moving parts	Unsafe condition	Injury	S	X			P5	I4	L1	Safe operating procedure Training, communication and awareness Competent workers Machine guarding Pre - Inspection PPE 	Principal Contractor
Assembly and erection steel	Falling objects	Objects falling from heights to the ground and hitting employees	Unsafe Condition	Injury	S	X			P5	I3	L1	Pre-use inspections Safe work procedure Barricading, Safety distance, drop off zones signage PPE - Hard hat Lanyards on hand tools 	Principal Contractor
	Ergonomics	Lifting of heavy materials	Unsafe Condition	Injury	S	X			P4	I3	L2	Job rotation Ergonomics procedure Job breaks Correct lifting techniques-bend knees not back Ensure one employee carries a maximum of 15 lifts per minute 2 hours with recovery time $\geq 0.3 \times$ lifting 	Principal Contractor
	Pinch points	Hands or body parts coming in contact with the load and surface	Unsafe Condition	Injury	S	X			P3	I3	L2	Use of cut resistant safety gloves Training, communication and awareness Risk assessments, safe work procedures, method statements 	Principal Contractor

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Welding operations	Electricity	Electrocution	Unsafe Condition	Injury	S	X			P4	I5	L1	Pre Start up checklist(inspections)	Principal Contractor
												Lock Out- Tag out procedure	
												Emergency preparedness plan	
												PPE - Rubber gloves	
	Gas fumes	Inhalation of hazardous substances	Unsafe condition	Illness	S	X			P3	I3	L2	Isolation of none working personnel	Principal Contractor
												Work area ventilation	
												Notices and signage	
												PPE - Dust masks, respirator,	
	Smoke Fumes	Employees coming in contact with burning substances	Unsafe Condition	Injury	S	X			P4	I3	L2	Notices and signage	Principal Contractor
												Supervision	
												PPE - Leather gloves, fire retardant overalls	
		Fire outbreak	Unsafe Condition	Property damage	S	X			P4	I3	L2	Planned Preventative Maintenance(Schedules)	Principal Contractor
												Pre Start up checklist(inspections)	
												Safe Working Procedure - Welding operations	
												Training, Communication & Awareness	
												Job Observation	
	Trailing cables	Trip and fall to the ground	Unsafe Condition	Injury	S	X			P4	I3	L2	Emergency preparedness plan	Principal Contractor
												PPE - Aprons, Spats, Goggles, Gloves, Dust Masks	
												Adequate housekeeping	
												Supervision	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	N O R M A L	A B N O R M A L	E M E R G E N C Y	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Brickwork and Plastering	Bulding Structure	Uncontrolled collapse of struture due to inadequate steel	Unsafe condition	Injury	S	X			P1	I3	L3	Design Review	Principal Contractor
												Design Specs to be followed	
												Inspections	
												Adequate Setting Time	
												Quality Control	
	Brick and Motar	Human interaction with bricks, sand and mortar results in skin diseases	Unsafe condition	Health	S	X			P1	I3	L3	PPE	Principal Contractor
												Medical Surveillance	
												Induction training and awareness	
												Toolbox talks	
												Competent Supervision	
	Dust	Inhalation of hazardous substances	Unsafe condition	Illness	S	X			P1	I3	L3	Dust Mitigation Procedure	Principal Contractor
												Posting of signage	
												Isolation of none working personnel	
												Work area ventilation	
												Use of PPE - Dust Mask (FPP1 -FPP2)	
	Sharp edges	Employees coming in contact with sharp edged equipment	Unsafe condition	Injury	S	X			P1	I3	L3	Inspections	Principal Contractor
												Safe working procedure - Ergonomics procedure	
												Training, communication and awareness	
												Supervision	
												PPE - Cut resistant safety gloves	
Operation	Overloading	Loads falling to the ground	Unsafe	Injury	S	X			P1	I3	L3	Safe work load	Principal Contractor
												Isolation of none working personnel	
												Posting signage	
												Supervision	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S	H	E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person	
											Probability	Severity	Risk Rating			
Crane	Overloading	Loads falling to the ground	condition	Injury	S			X			P1	I3	L3	Test certificates Competent work Use of outriggers 	Principal Contractor	
	Swinging loads	Loads bumping other structures	Unsafe condition	Property damage	S			X			P1	I3	L3	Task Planning Use of a spotter or flagman Communication and coordination between Operator and rigger Reverse hooter and strobe light PPE - Gloves Boots 	Principal Contractor	
	Adverse weather conditions	Being faced with hail/rain storms, fog	Unsafe Condition	Injury	S			X			P1	I3	L3	Pre- Task planning - Weather focus Rescheduling of work Safe work procedure - Crane operations Use of certified slings to control load Communication and coordination between Operator and rigger High visibility clothing 	Principal Contractor	
	Crane Failure	Loads and crane falling to the ground	Unsafe condition	Injury	S			X			P1	I3	L3	Erection of tower crnae to conduted by competent staff Audible warning on wind speed device(With calibration) Base to rail mounted for firm and level footing AIA inspection 6 monthly inpection(competent person) Load Indicator and load limiting device(> 500kg) Catches on all hooks 	Principal Contractor	
	Manual handling of material	Elevated loads	Loads falling to the ground	Unsafe condition	Injury	S			X			P1	I3	L3	Safe work load Catches on all hooks Load Indicator and load limiting device(>500kg) 	Principal Contractor
															Inspections Safe working procedure - Ergonomics procedure	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Sharp edges	Employees coming in contact with sharp edged equipment	Unsafe condition	Injury	S	X			P1	I3	L3	Training, communication and awareness	Principal Contractor
												Supervision	
												PPE - Cut resistant safety gloves	
	Heavy objects	Body part sprains	Unsafe condition	injury/illness	S	X			P1	I3	L3	Lifting aids	Principal Contractor
												Buddy system for loads above 22kgs	
												Safe working procedure - Ergonomics procedure	
	Uneven ground	Falling and tipping over	Unsafe condition	injury	S	X			P1	I3	L3	Pathway assessment	Principal Contractor
												Examine site layout	
												Housekeeping	
ardous and flammable liquids and chemicals	Chemical liquid/ LPG Gas	Fire outbreak	Unsafe Condition	Injury	S	X			P3	I4	L1	MSDS	Principal Contractor
												Isolation of none working personnel	
												Work area ventilation	
												Remove combustible material from work area	
												Placement of fire extinguishers	
			Unsafe Condition	Property damage	S	X			P3	I4	L1	Safe Working Procedure - Use of HCS	Principal Contractor
												Training, Communication & Awareness	
												MSDS	
												Work area ventilation	
			Unsafe Condition	Property damage	S	X			P3	I4	L1	Notices and signage	Principal Contractor
												Remove combustible material from work area	
												Placement of fire extinguishers	
												Safe Working Procedure - Use of HCS	
												Training, Communication & Awareness	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Handling of haza												Job Observation	
		Skin irritation	Unsafe condition	Injury	S	X			P1	I3	L3	MSDS	Principal Contractor
												Isolation of none working personnel	
												Work area ventilation	
												Notices and signage	
												gloves	
	Fumes	Inhalation of hazardous substances	Unsafe condition	Illness	S	X			P1	I3	L3	MSDS	Principal Contractor
												Safe working procedure -HCS	
												Training, communication and awareness	
												Isolation of none working personnel	
												Work area ventilation	
												Notices and signage	
												PPE - Dust masks, respirator,	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Construction Work	Elevated positions	Slip, trip and fall to the ground	Unsafe condition	Injury	S	X			P1	I3	L3	Safe work procure - Working at Heights and Fall Rescue	Principal Contractor
												Communication and training	
												Use of Fall Arrest System	
												Use of Fall prevention - Life line, guard rails	
												Barricading and demarcation	
	Tools and equipment falling to the ground	Unsafe act	Injury	S	X				P1	I3	L3	Pre-inspection	Principal Contractor
												Isolation of none working personnel	
												Posting of signage	
												Barricading of work area	
	Heavy material (Cement)	Repetitive work resulting in muscle sprain	Unsafe act	Injury	S	X			P1	I3	L3	Ergonomics procedure	Principal Contractor
												Training, communication and awareness	
												Job breaks	
												Job rotation	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
													Principal Contractor
	Flying particles	Eye contact with flying debris	Unsafe condition	Injury	S	X			P3	I3	L2	Machine guards	
												Supervision	
												Job Observation	
												PPE - Dust masks, googles and gloves	
	Night work	Inadequate illumination to perform work activities	Unsafe condition	Injury to people, damage to property	S	X			P3	I3	L3	Adequate illumination to be provided	Principal Contractor
												Continious supervision through the night	
												DSTI/ Toolbox talks	
												Fatigue breaks	
												Pre-inspection	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S	H	E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
											Probability	Severity	Risk Rating		
	Noise	Noise induced hearing loss	Unsafe condition	Illness	S			X			P1	I3	L3	Job Observation	Principal Contractor
Working on the Electric DB & MV rooms	Exposed live/ energized cables, Poor Tag out and Log out procedure	Electrocution	Unsafe Condition	Injury	S			X			P4	I5	L1		Principal Contractor
	Electricity: Exposed live/ energized cables	Electrocution/ Electromagnetic Radiation	Unsafe Condition	Injury	S			X			P3	I5	L1	Reduction of output power on device	Principal Contractor
														Isolate non-worker	
														Safe Working Procedure	
														Minimise time spent	
														Training, Communication & Awareness	
														Competent Electrician	
														Registered electrical contractor	
														Training, communication and awareness	
	Electric Switch gear	Electrocution	Unsafe Condition	Injury	S			X			P3	I4	L1	Overhead Power line identification plan	Principal Contractor
														Permit to work	
														Barricading and Signage	
														Competent Workers	
														Inspections	
				Injury										Isolation and LOTO	
														Permit to work	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person	
									Probability	Severity	Risk Rating			
		Electrocution	Unsafe Condition	Injury Electric shock	S	X			p4	I5	L1	Barricading and Signage Competent Workers Inspections Adhere to Eskom servitude at all time	Principal Contractor	
Working Near Public roads	Moving Vehicles	Moving vehicles make contact with site workers	Unsafe Condition	Injury	S	X			P3	I3	L2	Relevant Traffic Accomodation	Principal Contractor	
												Barricading and signage		
												Safe Working Procedure		
												Training, Communication & Awareness		
												Communication with local traffic department		
		Moving vehicles make contact with site euipment	Unsafe Condition	Injury	S	X				P3	I3	L2	Relevant Traffic Accomodation	Principal Contractor
													Barricading and signage	
													Safe Working Procedure	
Training, Communication & Awareness														
Communication with local traffic department														
Construction Vehicles	Motor vehicle	Collision due to defective motor vehicle	Unsafe Condition	Injury	S	X			P4	I3	L2	Paying attention to media for areas with riots	Principal Contractor	
												Communication media to contact emergency services		
												Emergency preparedness plan		
	Public	Theft/hijacking	Unsafe condition	Property loss	S	X				P4	I3	L2	Adhere to road traffic rules and regulations	Principal Contractor
													Road safety awareness campaigns	
	Public traffic	Over speeding and colliding with other motor vehicles on the roads	Unsafe condition	Injury	S	X				P4	I3	L2	Paying attention to media for areas with riots	Principal Contractor
													Communication media to contact emergency services	
													Emergency preparedness plan	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
	Road surface	Tyre damages due to road potholes	Unsafe condition	Property loss	S	X			P3	I3	L2	Safe work procure - Working at Heights and Fall Rescue	Principal Contractor
												Communication and training	
												Use of Fall Arrest System	
												Use of Fall prevention - Life line, guard rails	
												Barricading and demarcation	
Suspended Platforms	Elevated positions	Slip, trip and fall to the ground	Unsafe condition	Injury	S	X			P3	I3	L2	Safe work procure - Working at Heights and Fall Rescue	Principal Contractor
												Communication and training	
												Use of Fall Arrest System	
												Use of Fall prevention - Life line, guard rails	
		Tools and equipment falling to the ground	Unsafe condition	Injury	S	X			P3	I3	L2	Barricading and demarcation	Principal Contractor
	Ladders	Falling from heights while working on a ladder	Unsafe condition	Injury	S	X			P3	I3	L2	Pre inspection of ladders before use	Principal Contractor
												3 point contact when climbing the ladder	
												Safe working procedure	
												Training, communication and awareness	
												Barricading	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
												PPE	
Stock Piling	Operations Plant	Falling of Machinery from stock pile	Unsafe condition	Property damage	S	X			P4	I3	L2	No operation of excavator may take place on the stockpile	Principal Contractor
												Operator to have a valid drivers licence	
												Operator to be medically fit for the job	
												Pre- inspection of the machinery	
												Safe work procedure	
												Training and competency	
		Dust or flying particles	Unsafe condition	Injury	S	X			P3	I3	L2	Dust Mitigation Procedure	Principal Contractor
												Posting of signage	
												Isolation of none working personnel	
												Machine guards	
												Use of PPE - Dust Mask (FPP1 -FPP2)	
												Supervision	
												Job Observation	
Plumbing and Drainage Operations	Electricity	Electrocution	Unsafe Condition	Injury	S	X			P3	I4	L1	Planned Preventative Maintenance(Schedules)	Principal Contractor
												Pre Start up checklist(inspections)	
												Safe Working Procedure - Use of power tools	
												Lock Out- Tag out procedure	
												Training, Communication & Awareness	
												Job Observation	
	Biological Agents	Contact made with Bilogical agents in water systems	Unsafe Condition	Illness	H	X			P3	I2	L3	Medical Surveillance	Principal Contractor
												PPE	
												Safe Working Procedure	
												Training, Communication & Awareness	
Works (Asbestos Panel modulation Blocks)	Asbestos-Containing Material (ACM)	Disturbance of ACM roof and wall panels during demolition, releasing airborne asbestos fibres	Unsafe condition - uncontrolled demolition without specialist asbestos survey	Fatal illness (mesothelioma/ asbestosis), regulatory stoppage	H	X			P4	I5	L1	Asbestos Specialist Survey and Risk Assessment prior to demolition	Client / Asbestos Removal Contractor
												Development, submission and approval of Asbestos Removal Plan	
												Appointment of DEL-registered and licensed asbestos removal contractor	
												Establishment of controlled asbestos work zones with restricted access	
												Specialist PPE and decontamination facilities	
												Independent air monitoring and clearance certification	
												Pre-demolition structural assessment	

Task/ Activity	Hazard	Undesirable Event(Provide description)	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	S H E	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Critical Control Measures (for threats)	Responsible Person
									Probability	Severity	Risk Rating		
Ref an			limited access									Emergency contact numbers displayed at site	
Environmental and Climatic Exposure	Heat / prolonged outdoor exposure	Heat stress or heat stroke of workers during outdoor demolition and construction work	Unsafe condition - prolonged outdoor work in high ambient temperatures	Illness (heat exhaustion/heat stroke)	H	X			P3	I3	L2	Work/rest cycles implemented during high-temperature periods	Principal Contractor
												Provision of adequate drinking water	
												Shaded rest areas provided	
												Adjusted working hours during peak heat periods	
												Heat stress awareness training	
Community and Public Exposure	Wind-blown asbestos fibres	Migration of airborne asbestos fibres beyond the site boundary, exposing reserve staff, visitors and surrounding community	Unsafe condition - inadequate containment/ dust suppression during	Legal claims, public health risk	H	X			P2	I5	L1	Monitoring of vulnerable workers	Principal Contractor / Client
												Site enclosure and screening	
												Continuous air monitoring at the site boundary	
												Dust suppression using wet methods	
												Public notification and access restriction	
OHS Project Governance	Inadequate OHS budget allocation	Underfunding of safety-critical activities (asbestos removal, PPE, monitoring) at	Unsafe condition - poor	Unsafe practices, non-compliance	S	X			P4	I3	L2	Dedicated H&S cost allowance included in the Bill of Quantities	Client / DBSA
												Pr CHS Agent input into Employer's Requirements	
												Budget review at each project stage	
	Inadequate contractor competence	Appointment of contractors without adequate asbestos or demolition experience or registration	Unsafe act - poor procurement/prequalification	Non-compliance, legal exposure, unsafe execution	S	X			P3	I4	L1	Prequalification of specialist asbestos and demolition contractors	Client
												Verification of DEL registration and licences prior to appointment	
												Competency and track-record checks prior to appointment	