



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION: BASELINE RISK ASSESSMENT

PROJECT NUMBER:	JW 14447
PROJECT LOCATION:	ENNERDALE DEPOT
PROJECT DESCR:	ENNERDALE DEPOT ROOF REPLACEMENT

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ACTIVITY: SITE ESTABLISHMENT

Task	Hazard	Risk	Consequence	Rating	Controls
Site establishment	<ul style="list-style-type: none"> ✓ Sharp objects/ wires ✓ Uneven surface ✓ Faulty connection ✓ Poor ergonomics ✓ Falling objects ✓ Inadequate security services ✓ Not enough welfare facilities e.g. toilets, change rooms and lockers 	<ul style="list-style-type: none"> ✓ Cuts ✓ Slips and trips ✓ Damage to services ✓ Using the environment as ablution facilities 	<ul style="list-style-type: none"> ✓ Injuries ✓ Back strains and injuries ✓ Crime, theft, fights ✓ Contracting of communicable diseases ✓ Soil, water pollution 	M	<ul style="list-style-type: none"> ✓ Supervisors to plan during site set up and induct employees ✓ A competent electrician must be appointed to connect electrical wires to the site offices and Distribution Board. ✓ Ensure there are welfare facilities on site for health and hygiene purposes ✓ Awareness on hygiene and use of ablution facilities ✓ Detailed Risk Assessment must be drawn before any work commences on site.
Installing containers	<ul style="list-style-type: none"> ✓ Using lifting equipment ✓ Faulty equipment ✓ Faulty slings / chains 	<ul style="list-style-type: none"> ✓ Wind ✓ Incompetent personnel ✓ Heavy load ✓ Failing of lifting equipment 	<ul style="list-style-type: none"> ✓ Serious injuries ✓ Property damage 	H	<ul style="list-style-type: none"> ✓ Check wind speed prior to using the crane. ✓ Inspect the crane, slings and chains before use. ✓ Load test the crane before use ✓ Only carry loads certified to be carried by the crane
Entry and exit	<ul style="list-style-type: none"> ✓ No access control 	<ul style="list-style-type: none"> ✓ Unauthorised entry into the construction site 	<ul style="list-style-type: none"> ✓ Injuries ✓ Theft 	M	<ul style="list-style-type: none"> ✓ Appoint a full time, registered security guard on site



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Electrical installation	<ul style="list-style-type: none"> ✓ Electricity ✓ Incompetent personnel ✓ Wrong tools ✓ Damaged cables 	<ul style="list-style-type: none"> ✓ Contact with live electricity ✓ Incompetent person connecting electricity ✓ Electric shocks 	<ul style="list-style-type: none"> ✓ Electrocution ✓ Serious injuries 	H	<ul style="list-style-type: none"> ✓ Follow lock out procedure ✓ Ensure that equipment are earthed to an approved earthing point ✓ Ensure a zero potential test is performed for electricity is isolated ✓ Inspect all tools ✓ Use correct tools for the job ✓ Appoint a competent electrician/ technician ✓ Wear task specific PPE ✓ Ensure that there are no exposed wires on the cables
Stacking and storage	<ul style="list-style-type: none"> ✓ Unsafe stacks of materials or pallets 	<ul style="list-style-type: none"> ✓ Falling of pallets and material on employees 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damage 	H	<ul style="list-style-type: none"> ✓ Supervision of all stacking of materials on site ✓ Materials of same base and heights stacked together ✓ Barricade the stacking area ✓ Unsafe stacks to be removed immediately ✓ Never stack materials during knocking off time or late at night. ✓ Use task specific PPE



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ACTIVITY: TRANSPORTATION OF MATERIALS TO SITE

Task	Hazard	Risk	Consequence	Rating	Controls
Transportation of material to site	<ul style="list-style-type: none"> ✓ Unsafe road conditions ✓ Un-road worthy vehicles ✓ Equipment and material not safely secured ✓ Incompetent drivers ✓ Driving under the influence of alcohol ✓ Inclement weather ✓ Speeding ✓ Slippery road 	<ul style="list-style-type: none"> ✓ Overturning vehicles ✓ Vehicle collisions ✓ Bumping pedestrians / employees 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damages ✓ Third party liability 	M	<ul style="list-style-type: none"> ✓ Adherence to the speed limit ✓ Only competent/ authorised drivers should operate the vehicle ✓ Inspection of vehicles ✓ Equipment and material to be properly secured ✓ Alcohol testing to be done ✓ The road to be paved to prevent accidents ✓ Traffic control to be implemented to avoid collisions
Offloading of material	<ul style="list-style-type: none"> ✓ Faulty lifting machinery & equipment ✓ Suspended load ✓ Poor housekeeping 	<ul style="list-style-type: none"> ✓ Malfunctioning ✓ Falling on employees ✓ Obstructed walkways by materials 	<ul style="list-style-type: none"> ✓ Injuries 	M	<ul style="list-style-type: none"> ✓ Inspect lifting equipment prior to use. ✓ Ensure the safe working load prior to use ✓ Train the employees in manual lifting ✓ Ensure proper housekeeping ✓ The correct PPE must be worn ✓ Designate the stacking areas and put signs ✓ Stacking and storage inspector must be appointed and in charge



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ACTIVITY: USING A GENERATOR FOR ELECTRICITY

Task	Hazard	Risk	Consequence	Rating	Controls
Fueling the generator	✓ Spillages	✓ Slips, trips, falls	✓ Injuries	L	<ul style="list-style-type: none"> ✓ Prevent spillages ✓ Use drip trays ✓ Use funnels for fueling
		✓ Fire	✓ Injuries	M	<ul style="list-style-type: none"> ✓ No smoking allowed near the generator
	✓ Diesel fumes	✓ Inhalation	✓ Respiratory problems	L	<ul style="list-style-type: none"> ✓ Provide employees with respirators
		✓ Skin contact	✓ Skin irritation	L	<ul style="list-style-type: none"> ✓ Provide employees with gloves, safety boots and overalls
	✓ Running engine	✓ Explosion	✓ Injuries	M	<ul style="list-style-type: none"> ✓ Switch engine off before refueling and make sure fuel cap is replaced. ✓ No smoking allowed near the generator
Running the generator engine	✓ Noise	✓ Over-exposure	✓ Noise-induced hearing loss	M	<ul style="list-style-type: none"> ✓ Provide employees with hearing protection ✓ Provide rest periods for employees
	✓ Vibration	✓ Over exposure	✓ Raynaud's Syndrome	L	<ul style="list-style-type: none"> ✓ Provide employees with vibration gloves. ✓ Rotate employees or provide rest periods.
	✓ Fumes	✓ Inhalation	✓ Respiratory problems	L	<ul style="list-style-type: none"> ✓ Provide employees with respirators ✓ Never use indoors



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ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
Brick laying	<ul style="list-style-type: none"> ✓ Dust from cutting bricks Unsecured bricks 	<ul style="list-style-type: none"> ✓ Inhalation of dust ✓ Falling on employees 	<ul style="list-style-type: none"> ✓ Respiratory problems ✓ Injuries 	M	<ul style="list-style-type: none"> ✓ Employees should wear dust masks ✓ Wear hand protection ✓ Employees to exercise caution when handling bricks.
Cutting	<ul style="list-style-type: none"> ✓ High Noise Levels ✓ Cutting Grinder/Disc 	<ul style="list-style-type: none"> ✓ Vibration ✓ Cutting edges ✓ Eye penetration ✓ Finger cuts ✓ Expose to high noise level area ✓ Uncontrolled disc ✓ Electrical equipment failure ✓ Sharp edges 	<ul style="list-style-type: none"> ✓ Damaged hearing ✓ Carpal tunnel syndrome ✓ Cuts/ injuries ✓ Eye irritation / blindness ✓ Injuries ✓ Eye injuries 	M	<ul style="list-style-type: none"> ✓ Use hearing protection when exposed to excessive noise levels (greater than 85 dB over an 8-hour work period) ✓ Rotate tasks to minimize worker exposure to equipment vibration. ✓ Assess manual guide carefully to ensure correct usage of portable electrical devices. ✓ Ensure all grinders and connections are inspected ✓ Ensure that safety guards are in place on the grinder ✓ Handle and switch of the grinder should be inspected and tested prior to use. ✓ Only trained employees may use grinders ✓ Proper PPE to be used ✓ Inspect cutting disc prior to use
Concrete works	<ul style="list-style-type: none"> ✓ Moving bucket 	<ul style="list-style-type: none"> ✓ Hitting employees 	<ul style="list-style-type: none"> ✓ Injuries 	M	<ul style="list-style-type: none"> ✓ Workers to stand clear of the path of the bucket.



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ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
					✓ Banksman to direct the loading and offloading activities
	✓ Concrete splashing	✓ Skin contact	✓ Dermatitis ✓ Skin burns	M	✓ Use of skin protection ✓ Provide gloves and safety boots ✓ Have MSDS
	✓ Concrete splashing	✓ Eye contact	✓ Eye injuries	M	✓ Provide safety goggles
	✓ Manual handling of chutes	✓ Incorrect handling	✓ Injuries	M	✓ Training in correct handling methods ✓ Provide employees with gloves ✓ Provide leather gloves for concrete chute
Painting	✓ Paint fumes	✓ Inhalation	✓ Respiratory illness	L	✓ Provide employees with masks ✓ Provide MSDS
	✓ Paint	✓ Skin contact	✓ Skin reaction	L	✓ Provide employees with gloves and overalls ✓ Provide MSDS
Paint tins	✓ Heavy material	✓ Falling	✓ Damages ✓ Injuries	L	✓ Proper lifting of material ✓ Develop SOP
	✓ Spillages	✓ Trip and falls	✓ Injuries	L	✓ Provide drip trays



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ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
Storage and usage of HCS	<ul style="list-style-type: none"> ✓ Burning or fires on site ✓ Improper labelling of chemical containers 	<ul style="list-style-type: none"> ✓ Property damage ✓ Accidental consumption of flammable liquids 	<ul style="list-style-type: none"> ✓ Serious injuries ✓ Illnesses 	M	<ul style="list-style-type: none"> ✓ A well ventilated cage may be used for storage of all the HCS and flammables ✓ HCS supervisor must record all quantities on a register. ✓ Label containers correctly ✓ Display HCS signage



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ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
Scaffold work	Improper erection	<ul style="list-style-type: none"> ✓ Collapse ✓ Falling of employees and equipment 	<ul style="list-style-type: none"> ✓ Property damages ✓ Fatalities 	H	<ul style="list-style-type: none"> ✓ Only a competent scaffold erector may erect a scaffold. ✓ Scaffold to be erected on firm, stable base ✓ Check the stability of the scaffold prior to allowing employees to climb on them. ✓ Mobile scaffolds must have their wheels locked before any person is allowed to climb on them. ✓ All parts of the work platform and scaffold must have safe means of access ✓ Unattended or incomplete scaffold should be prevented against unauthorized access. ✓ Suitable access ladder must be provided ✓ A fall arrest harness must be worn. ✓ Never use worn out fall arrest equipment. ✓ Suitable equipment for rescue must be available ✓ Proper bracing of the scaffold ✓ Scaffold to be securely tied to a structure
	Overloading	<ul style="list-style-type: none"> ✓ Collapse 	<ul style="list-style-type: none"> ✓ Property damage 	H	<ul style="list-style-type: none"> ✓ Display the safe working load of the scaffold



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ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
		✓ Falling of employees and equipment	✓ Fatalities		✓ Never exceed the SWL of the scaffold
	Overhead lines	<ul style="list-style-type: none"> ✓ Contact with overhead lines ✓ Contact with employees 	<ul style="list-style-type: none"> ✓ Property damages ✓ Electrocution 	H	<ul style="list-style-type: none"> ✓ Erect the scaffold away from power lines ✓ Keep tools away from overhead lines ✓ Fall arrest equipment to be attached
	Unstable ground conditions	✓ Collapsing of scaffold	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damage 	H	<ul style="list-style-type: none"> ✓ Ensure that the foundation / footing of the scaffold is stable and levelled ✓ Only trained and competent persons may erect a scaffold
	Non-compliant scaffolding	✓ Collapsing of scaffold	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damage 	H	<ul style="list-style-type: none"> ✓ All platforms to be fully boarded and boards used to comply with SANS 085 ✓ All components of the scaffold must comply with SANS 085
Work platform	Inadequate space	✓ Falling persons and objects	<ul style="list-style-type: none"> ✓ Fatalities ✓ Property damages 	H	✓ Work platform should be at least 1m wide and capable of carrying the load that the type of work carried out may require



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ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
					<ul style="list-style-type: none"> ✓ To prevent persons from falling from the outside edges of work platforms, guardrails and mid-rails must be fitted. ✓ If loose objects or other materials may be present on the platform, edge protection/ toe boards must be provided on work platforms.
Edge protection	Working close to edges	✓ Falling	✓ Fatalities	H	<ul style="list-style-type: none"> ✓ To prevent persons from falling, edge protection must be erected around the perimeter of the work. This must comprise the guardrail and mid-rail designed to withstand any reasonable force, which is expected to fall against it. ✓ Only a competent person may erect an edge protection system ✓ Edge protection can be in the form of hook on boards used as toe boards
Working at heights	<ul style="list-style-type: none"> ✓ Heights ✓ Unfit employees ✓ Using hand tools 	✓ Falls	✓ Injuries	M	<ul style="list-style-type: none"> ✓ Employees to use proper PPE including safety harnesses when working at heights. ✓ Inspect all tools prior to use.



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ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
	Unsecured tools and equipment	✓ Falling onto employees			<ul style="list-style-type: none"> ✓ Provide training for using safety harnesses correctly. ✓ Employees working at heights must be certified fit to work. ✓ Hand tools must be attached to lanyards when working at heights. ✓ Use tool bags ✓ Use netting system below each level. ✓ No work should be done on the ground when work at heights is in progress. ✓ Proper signage to be displayed.



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ACTIVITY: MECHANICAL LIFTING

Task	Hazard	Risk	Consequence	Rating	Controls
Lifting using a crane	✓ Overhead lines	✓ Contact with crane	✓ Electrocution ✓ Property damages	H	<ul style="list-style-type: none"> ✓ All lifting activities to be planned at least 2m away from overhead lines ✓ Obtain wayleaves from Eskom ✓ Appoint ORHVS
	✓ Wind / Unfavourable weather	<ul style="list-style-type: none"> ✓ Deflection ✓ Loss of control 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damages 	H	<ul style="list-style-type: none"> ✓ Do not use during unfavourable weather conditions
	✓ Incompetent operator	<ul style="list-style-type: none"> ✓ Loss of control ✓ Hitting structures and people 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damages 	H	<ul style="list-style-type: none"> ✓ Only trained and competent operators may operate the crane
	✓ Overloading	<ul style="list-style-type: none"> ✓ Collapse of material 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damages 	H	<ul style="list-style-type: none"> ✓ Display safe working load on the crane
	✓ Faulty crane	<ul style="list-style-type: none"> ✓ Malfunctioning 	<ul style="list-style-type: none"> ✓ Injuries ✓ Property damages 	H	<ul style="list-style-type: none"> ✓ Cranes to be inspected by competent persons prior to being used ✓ All faulty cranes to be tagged and locked out



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ACTIVITY: GENERAL ACTIVITIES ON SITE

Task	Hazard	Risk	Consequence	Rating	Controls
✓ Working on site	<ul style="list-style-type: none"> ✓ Unhappy community ✓ Criminals 	<ul style="list-style-type: none"> ✓ Community coming to site ✓ Violence against employees 	<ul style="list-style-type: none"> ✓ Property damages ✓ Serious injuries 	H	<ul style="list-style-type: none"> ✓ Develop an emergency response procedure ✓ Meet with the community and all stakeholders prior to commencement of the project ✓ Keep all gates locked at all times ✓ Have the contact details of the nearest police station / JMPD offices ✓ Liaise with CLO, ward governance and councilor ✓ Stop work and evacuate employees where possible ✓ Have 24/7 security on site
	✓ Unfavourable weather conditions	✓ Exposure to temperature extremes	<ul style="list-style-type: none"> ✓ Heat exhaustion ✓ Frost bite 	M	<ul style="list-style-type: none"> ✓ Provide employees with water for cooling down. ✓ Provide employees with warm jackets during winter and gloves ✓ Provide 5-minute rest periods for every 30 minutes of exposure to temperature extremes.
	✓ Housekeeping	✓ Trips and falls	✓ Injuries	M	<ul style="list-style-type: none"> ✓ Ensure that proper housekeeping is maintained on site at all times.
	✓	✓	✓		✓



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ACTIVITY: ELECTRICAL WORKS

Task	Hazard	Risk	Consequence	Rating	Controls
Cabling	✓ Live electric cables	✓ Electric Shock	✓ Serious injuries	H	<ul style="list-style-type: none"> ✓ Ensure that electricity supply is switched off during installation ✓ Implement lockout procedures
	✓ Inadequate wiring	<ul style="list-style-type: none"> ✓ Electric fault ✓ Fire 	<ul style="list-style-type: none"> ✓ Serious injuries ✓ Property damages 	H	<ul style="list-style-type: none"> ✓ Only competent persons to do the electrical work
	✓ Use of faulty cables	✓ Fire ignition	✓ Burns/ damages	M	<ul style="list-style-type: none"> ✓ Visual inspection of cable before use
	<ul style="list-style-type: none"> ✓ Cutting 	<ul style="list-style-type: none"> ✓ Eye penetration 	<ul style="list-style-type: none"> ✓ Eye injuries/ blindness 	M	<ul style="list-style-type: none"> ✓ Safety goggles shall be worn by employees when cutting steel
	✓ Unit activation	✓ Struck by equipment	✓ Injuries	M	<ul style="list-style-type: none"> ✓ Lock out/ Tag out
	✓ Live Yard	<ul style="list-style-type: none"> ✓ Electrocution Injury ✓ Working unauthorized ✓ Miscommunication between employees 	✓ Injury or death	H	<ul style="list-style-type: none"> ✓ Obtain a permit ✓ Follow cardinal rules ✓ Strict supervision ✓ Fire extinguisher must always be on site ✓ Obtain a permit and follow all procedures listed ✓ Strict supervision ✓ Competent technician operation ✓ Issue test certificate for every testing and inspection done
<ul style="list-style-type: none"> ✓ Electrical connection ✓ Extension cords 	<ul style="list-style-type: none"> ✓ Explosion ✓ Faulty cord failure 	<ul style="list-style-type: none"> ✓ Injuries / damage to employees and equipment 	L	<ul style="list-style-type: none"> ✓ Emergency stop button must always be serviceable ✓ Fire extinguishers must always be kept on site 	



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ACTIVITY: ELECTRICAL WORKS

Task	Hazard	Risk	Consequence	Rating	Controls
			✓ fire		
	<ul style="list-style-type: none"> ✓ Electrical equipment ✓ Portable electrical appliances 	<ul style="list-style-type: none"> ✓ Use of faulty electrical equipment; ✓ Faulty equipment could also start a fire. 	<ul style="list-style-type: none"> ✓ All workers could suffer potentially fatal shocks or burns. ✓ Electric shock/ burns ✓ injuries 	M	<ul style="list-style-type: none"> ✓ All tools to be checked and tagged before bringing onto site; ✓ Portable electrical appliances examined and where necessary, tested by a competent person within the recommended time limit; ✓ Defective appliances and leads are removed from use and kept secured until they can be repaired or removed from the site; ✓ Electric tools and installations to be in good condition; ✓ Inspect electric tools before use; ✓ Do not use electric tools in wet / damp conditions; ✓ Use personal protective equipment such as insulated gloves.



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RISK ASSESSMENT MATRIX

Likelihood	Consequences				
	Insignificant (minor problem easily handled by normal day to day processes)	Minor (Some disruption possible e.g., damage equal to R150k)	Moderate (significant time / resources required. E.g., damage equal to R500k)	Major (Operations severely damaged. E.g., damages equal to R1m)	Catastrophic (business survival is at risk. Damage equal to R5m – 10m)
Almost certain (90% chance)	High	High	Extreme	Extreme	Extreme
Likely (between 50-90%)	Moderate	High	High	Extreme	Extreme
Moderate (between 10-50%)	Low	Moderate	High	Extreme	Extreme
Unlikely (between 3-10%)	Low	Low	Moderate	High	Extreme
Rare (<3%)	Low	Low	Moderate	High	High