	RISK ASSESSMENT	Effective Date: 13 June 2026	
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Sl. No.	Activity	Hazards/ Impact Risks identified	Risk Rating			Control measures	Residual Risk			Risk Owner
			Probability	Severity	P X S		Probability	Severity	P X S	
1	**Shifting of Plant, Equipment and Materials**	• Manual Handling - Injury to Personnel • Collision/Collapse - Injury to Personnel / Damage to equipment	3 3	4 4	12 12	• Approved method statement must be in place prior to start the work activity • Ensure Job safety analysis (JSA) is completed. • Hazard identification and Specific Risk Assessment must be carried out prior to heavy work commencing. • Mechanical methods to be used where possible, or multiple people lifting.	1 1	4 4	4 4	Project Manager/ Construction Manager, Plant Manager, Project Engineer, Foremen Project Lead HSE Engineer for monitoring
2	**Use of Portable Electric Appliances**	• Electricity - Electric Shock Electrocution • Fire - Injury to Persons, Property Damage • Manual Handling - Back injury Strain/ Sprain	4 3 3	5 5 4	20 15 12	• Approved method statement must be in place prior to start the work activity • Ensure Job safety analysis (JSA) is completed. • Maintain register of inspection • All electrical tools must be tested in every 3months and tagged by a competent person. • Wear appropriate PPE (Gloves/Goggles/Hearing protection) • Manual Handling assessment prior to use of tools. • Use dust suppression vacuums or water suppression where applicable • Inspect tools prior to all operations.	1 1 1	5 5 4	5 5 4	Project Manager/ Construction Manager, Plant Manager, Project Engineer, Electrical dept. head, Foreman Project Lead HSE Engineer for monitoring
3	**Use of Hand Tools**	• Falls of materials - Bruising, cuts & sprains, puncturing, damage to property • Noise/Vibration - Hand Arm Vibration, Vibration White Finger (VWF), WRULD's Noise Induced Hearing Loss, Tinnitus	3 3	4 4	12 12	• Approved method statement must be in place prior to start the work activity • Ensure Job safety analysis (JSA) is completed • Provision of Tool bags or belts while working. • Inspecting tools for loose and deficient parts. Report and replace immediately. • If using tools at height, secure tool to you or scaffold. • Toe-boards and brick guards/netting in place to prevent accidental dropping of tools or materials. • Wear appropriate PPE (Gloves/Goggles/Hearing protection/Head Protection and safety Footwear) • Homemade tools are not to be used	1 1	4 4	4 4	Project Manager/ Construction Manager, Project Engineer, Foreman Project Lead HSE Engineer for monitoring
4	**Use of Ladders**	• Falls from Height - Back Injury, Fractures, Cuts, Bruises, Death. • Falls of Materials – Head Injury, Death, Fractures,	4 4	5 5	20 20	• Approved method statement must be in place prior to start the work activity • Ensure Job safety analysis (JSA) is completed. • Ladders must be inspected monthly and color coding must be in place. • Maintain Ladder register with inspection status.	1 1	5 5	5 5	Project Manager/ Construction Manager, Project Engineer, Foreman Project Lead HSE Engineer for

		Cuts, Bruises • Slipping/Collapse - Back Injury, Fractures, Cuts, Bruises, Death.	4	5	20	• Ladders must only be used for short duration light work and inspection, with one hand on the ladder as a minimum at all times. If this cannot be done another work platform is required • Live Electrical work: Wooden Ladders only • Ladder must extend 1m beyond platform, at 75o angle or 4:1 Height to Base ratio. • Ladder must be placed on firm level base. • All ladders must be adequately tied (not by styles) to a fixed sound structure. • Tools should be secured to worker by tool bag/tool belt or lanyard. • Damaged ladders must be destroyed. • Hard Hats worn especially below ladder. • If over 9m platform must be provided. • Only one person on ladder at one time. • Materials to be hoisted up or carried in tool bag. • Working position should be not less than 5 rungs from top.	1	5	5	monitoring
5	**Use of PPE** (Personal protective Equipment), **RPE,** (Respiratory Protective Equipment), **Safety Equipment** Hard Hats Harnesses Respirator Masks Breathing Apparatus Ear Protection	• Poor operation - Injury to person • Poor seal - Death, or serious injury • Failure of Equipment - Death or serious injury	3 3 3	4 5 5	12 15 15	• Employers must provide PPE, RPE, safety equipment at all times when necessary. • Ensure that all PPE, RPE is assessed for suitability for job, limitations, capability, compatibility with other PPE. additional hazards. • Read manufacturer's instructions for weaknesses and correct installation or wear. • Training or information/instruction should be given on use, storage and maintenance theoretically and practically. • Ensure that PPE is adequate for job activity, and all operatives exposed are warned by signage and toolbox talk. • Ensure that suitable storage is available for safety equipment on site.	1 1 1	4 5 5	4 5 5	Project Manager/ Construction Manager Project Engineer, Foremen Project Lead HSE Engineer for monitoring
6	**Office Work**	• Visual Display Unit (VDU)/ Display Screen Equipment (DSE)-Work Related Upper Limb Disorders (WRULD's), Repetitive strain injury (RSI), Eye Damage, Stress, Headaches • Electricity - Death, Serious injury, burns	3 3	4 5	12 15	• Ensure Job safety analysis (JSA) is completed • All computer workstations must have DSE Assessment carried out. • Regular breaks per hour from screen. • No overloading of power circuits, with testing carried out on all mobile equipment. • Never use equipment unless given instruction to do so. • Firefighting equipment, evacuation plan and regular inspection of both carried out. • Hazard Identification /Risk assessment required for office area relating to fire.	1 1	4 5	4 5	Project Manager/ Construction Manager, Administration Manager, Project Lead HSE Engineer for monitoring

		Slips • Trips and Falls - Sprains, strains, fractures • Passive smoking, Fire - Death, serious injury, burns, cancer.	3 3	4 5	12 15	• Audible alarms suitably located in office • Fire wardens and suitable assembly points nominated and signs erected to inform. • Emergency lighting required and checked monthly. • All staff and appointed persons must receive regular training and this must be recorded • Fire drills must be carried out and recorded • All trailing cables must be protected by trip mat. • Good housekeeping required not to block exits. • No smoking or naked flames allowed in office, smoking only permitted in designated areas. • Any subcontractor working in offices must be controlled and monitored. • All office staff and visitors must sign in and out of the building. • COSHH assessment for materials used in office must be carried out and maintain the register.	1 1	4 5	4 5	
7	**Maintenance of plant/ equipment**	• Leakage of oil, Disposal of used oil, oil filters, Emission of smoke consisting of greenhouse gases like CO2, oxides of Nitrogen & Sulphur. • Effect soil, underground water or water bodies / marine environment, air	4 4	4 4	16 16	• Approved method statement must be in place prior to start the work activity • Ensure Job safety analysis (JSA) is completed • Construction equipment and vehicles will be adequately maintained to minimize excess emissions and potential spillage of engine fluids. • Proper decanting practices for filling the drums or tank or equipment/ vehicles at site • Metal drip trays will be provided for collecting oil spillage or leakage during activities like maintenance, refueling etc. • Machinery which is leaking hazardous substance like fuel should be repaired immediately. • Do not burn waste oil on a bonfire as this pollutes the air.	1 1	4 4	4 4	Project Manager/ Construction Manager project Engineer, Foremen Project Lead HSE Engineer for monitoring
8	**Waste Management** (Construction Waste and Domestic Waste – Storage, Handling)	• Collection, separation, storage and disposal of various categories of waste may result in the pollution of soil, groundwater and the marine environment. • Without an effective waste reduction program, there exists a potential for large quantities of waste to be generated, with a small quantity being hazardous.	3 3	4 4	12 12	• Ensure Job safety analysis (JSA) is completed • On site waste will be segregated & stored appropriately as requirements within the CEMP – Signage must be clear and waste segregation enforced. • Waste to be removed from site by a third-party contractor • Where necessary waste containers will be covered to prevent being blown away. • Waste will be transported to an EAD approved disposal facility. • Vehicles delivering waste to the disposal area will be covered to prevent dropping, leaking, sifting or blowing of solid waste from the vehicle. • Any spillages or waste lost from disposal vehicle end route to the disposal site shall be promptly cleaned up.	1 1	4 4	4 4	Project Manager/ Construction Manager project Engineer, Foremen Project Lead HSE Engineer for monitoring

		• Risks for ground and water contamination from incorrect disposal. • Potential impact on overall aesthetics of the region and increase of odor levels may cause nuisance to nearby Residents, on-site labors and even fauna residing in the vicinity.	3 3	4 4	12 12	• LDN will impart to their drivers an awareness related to the handling and disposal of their cargo. • LDN will maintain a working file keeping a record of the waste being disposed of. This shall include date, time, type of waste, approx. volume of waste, and disposal method. • Covers/lids will be used for skips and bins during waste storage. Waste will not be stored within 30 meters of water edge. • All Hazardous materials shall be stored in an appropriate container to prevent leakage or spills as per EAD regulations and as well as per Material Safety Data Sheet (MSDS) of each specific material. No cement, grout, petroleum product, or any other hazardous material shall be placed or allowed to disperse into the marine environment. • All fuels and hazardous chemicals shall be stored and secured in designated bunded areas and inside appropriate containers at least 100 m from any water body. • Refueling or maintenance will not occur within 30 m of any water body • For on-site refueling and maintenance, a mobile fuel truck will be used • All contaminated materials will be stored at the temporary waste transfer facility at site. Then it will be removed from the site by approved hazardous waste transfer trucks as per EAD regulations. Waste Transfer Note (WTN) shall accompany each shipment of Hazardous waste and copy of such WTN shall be kept by LDN. • Routine inspections of containment structures and surrounding storage locations will be performed. • Crews shall receive training on the use of MSDS. • Environmental incident report shall be produced and submitted to HSE Lead Engineer. • The site shall undergo a daily clean up including removal of general litter and construction waste • Construction waste shall be disposed of at designated disposal waste site approved by EAD. • No waste will be buried or disposed of on-site • Lessons drawn from the incident shall be communicated to construction crew through a tool box talk.	1 1	4 4	4 4	

Reviewed By:		Approved By:	
Signature:		Signature	
Date:		Date:	