AMETECS	RISK ASSESSMENT	Effective Date: 3 MARCH 2025	
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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	**MANUAL HANDLING**	• Unloading raw materials - incidents have occurred where people use levers, such as metal bars to manually lever steel and other metal products off delivery vehicles. This practice is known as 'barring off'.	3	4	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. • Use purpose-built vehicles for small loads, ensuring the vehicle operator is trained in its safe use. • Use a suitable mobile or overhead crane for bundled loads.	1	4	4	Factory Manager Manufacturing Personnel Quality Personnel Project Lead HSE Engineer for monitoring
		• Transport of materials on the shop (heavy) -steel that weighs 20 kg or more and/or longer than 2m, are moved in the workplace from the raw material storage area	4	4	16		1	4	4	
		• Transport of materials on the shop (light) -Lifting or pushing and pulling these items involves the use of high force and sudden or unexpected forces, as these items can be heavy or long and they can stick together.	3	4	12		1	4	4	
		• Manufacturing product at workstation - stamping, pressing, assembling and drilling components.	4	4	16		1	4	4	
		• Packing stillages - Stillages are often used for transporting product. Many have high solid sides that require the employee to fully bend.	3	4	12		1	4	4	
		• Loading and handling finished products -Finished fabricated metal products are transported from the manufacturing site to customers by truck. A variety of different sizes and weights must be loaded for distribution.	3	4	12		1	4	4	
2	**HAND TOOL USAGE**	• Angle grinding - Serious injuries range from foreign materials in the eye to	4	5	20	• Approved method statement must be in place prior to start the work activity	1	5	5	Factory Manager Manufacturing Personnel

		injuries due to kick back from the grinder as well as deafness related to noisy grinders or processes. • Welding - Welding often sees metal items and welding tools being lifted, lowered, pushed, pulled or restrained and can involve the use of high force and sudden or unexpected forces, as the items can be heavy, move unexpectedly and need to be manipulated and held into certain positions.	4	5	20	• 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 an adjustable jig rotator or fixture to move and align the part that allows the person to undertake work in an upright position within the best working zone. • Use the most appropriate tool to minimize hand/arm vibration and extreme hand, arm or wrist postures. • Use booths to separate grinding from other workers. • Use welding booths to separate welding from other workers • Have a permit system (if applicable) such as a hot work permit to ensure work is done safely	1	5	5	Quality Personnel Project Lead HSE Engineer for monitoring
3	**Use of Portable Electric Appliances**	• Electricity - Electric Shock Electrocution • Fire - Injury to Persons, Property Damage • Manual Handling - Back injury Strain/ Sprain	3 3 3	5 5 4	15 15 20	• 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	Factory Manager Manufacturing Personnel Quality Personnel 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, Cuts, Bruises • Slipping/Collapse - Back Injury, Fractures, Cuts, Bruises, Death.	4 4 4	5 5 5	20 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. • 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.	1 1 1	5 5 5	5 5 5	Factory Manager Manufacturing Personnel Quality Personnel Project Lead HSE Engineer for monitoring

						• 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.				
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	Factory Manager Manufacturing Personnel Quality Personnel 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 Slips • Trips and Falls - Sprains, strains, fractures • Passive smoking, Fire - Death, serious injury, burns, cancer.	3 3 3 3	4 5 4 5	12 15 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. • 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	1 1 1 1	4 5 4 5	4 5 4 5	Factory Manager Manufacturing Personnel Quality Personnel Office staff Project Lead HSE Engineer for monitoring

						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.				
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	Factory Manager Manufacturing Personnel Quality Personnel 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. • 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 3 3	4 4 4 4	12 12 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. • 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	1 1 1 1	4 4 4 4	4 4 4 4	Factory Manager Manufacturing Personnel Quality Personnel Project Lead HSE Engineer for monitoring

						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.				

9	**Workplace management during emergency**	• External security threats, explosions, debris, fire, and disruption to normal operations	4	5	20	• Suspend non-essential activities; monitor official government/emergency notifications; maintain emergency communication with employees; restrict access to the facility when required	2	3	6	Factory Manager Manufacturing Personnel Quality Personnel Project Lead HSE Engineer for monitoring
		• Injury during evacuation, panic, falling objects, fire, and exposure to external hazards	3	5	15	• Follow approved emergency response procedures; use designated emergency exits and assembly points; conduct headcount; ensure emergency routes remain accessible	1	5	5	
		• Blast impact, flying debris, fire, smoke, and injury from damaged structures.	3	5	15	• Move personnel to designated safe areas; keep personnel away from windows and external walls; maintain first-aid and emergency equipment; account for all employees	1	4	4	
		• Stress, anxiety, fear and emotional distress due to ongoing security threats and uncertainty	3	4	12	• Provide regular communication, welfare support, adequate rest breaks and access to counselling or professional support	2	3	6	
		• Sleep disturbance, mental fatigue and reduced alertness due to prolonged emergency conditions	3	3	9	• Ensure adequate rest periods, control working hours, monitor employee wellbeing and adjust workload where necessary	2	2	4	

Reviewed By:	ANANTHAKRISHNAN R	Approved By:	AMRITH SATHISH
Signature:		Signature	
Date:	03/03/2026	Date:	03/03/2026