

RISK ASSESSMENT

(CONSTRUCTION INDUSTRY)

Document No: QHSE-RA-CI-01

Date of issue: 01-01-2025

Revision: 00

Page 1 of 3

TASK / ACTIVITY	Construction Industry		
DATE OF ASSESSMENT:		DATE OF NEXT ASSESSMENT	00-00-2025
PROJECT / LOCATION:			

SR.	ACTIVITY	Hazard/Risk	Persons in Danger	Risk Level			Existing & Additional Control	Residual Risk			Remarks
				L	S	RR		L	S	RR	
1	Shifting of structural materials from yard to blasting / painting area and back to fabrication yard (By using of hydra, crane & trailer)	<ul style="list-style-type: none"> Unauthorized Operation of Vehicle. Carrying Unauthorized Passengers Intoxicated Driving 	<ul style="list-style-type: none"> Operatives General Workers Visitors 	3	C	H	<ul style="list-style-type: none"> Area Survey to be done before moving the crane Designated persons are only allowed to travel in the cabin of trailer / truck. 	1	3	L	Execution Team
2	Manual Material Handling	<ul style="list-style-type: none"> Hazards during manual materials handling. Pinching of leg/hands while handing of materials. Improper stacking of Material. Unauthorized Operation of crane. Inadequate space for access/ egress. Improper illumination. 	<ul style="list-style-type: none"> 	3	C	H	<ul style="list-style-type: none"> Don't allow the person to lift more than 30 kg for materials shifting from one place to other. Provide Trolley for materials shifting. Person handing the material should be physically fit to do work. Use hand gloves during material handling. All Mandatory PPE's shall be use at site. Medical Fitness of Crane operators shall be check. The space for access & egress should be proper, Clear & adequate. 	1	3	L	Execution Team
3	Gas cutting Activity Storage, Handling & use of Gas Cylinders at site.	<ul style="list-style-type: none"> Improper unloading process- damage of Cylinder resulting fire & explosion, injury while handling. 	<ul style="list-style-type: none"> 	3	C	H	<ul style="list-style-type: none"> Cylinders should keeping at upright direction only. Providing Flash back arrestor each side of gas cutting set. 	1	3	L	Execution Team

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Page 2 of 3

		<ul style="list-style-type: none"> Improper Storage – Untied cylinders. Fire, burn injury while using at site. 									
4	Grinding Work	<ul style="list-style-type: none"> Struck by grinding wheel. Breaking of wheel. Poor electrical connection. 	•	3	C	H	<ul style="list-style-type: none"> All the grinding machines shall be used with wheel guard. Check expire date of grinding wheel and use approved product of wheel. 	1	3	L	Execution Team
5	Welding Work	<ul style="list-style-type: none"> Electrocution due to improper electric Connection. Welding fumes / Health hazard. Fire hazard due to welding spark. 	•	3	C	H	<ul style="list-style-type: none"> Welding goggles shall be provided to welder’s helper for eye protection. Area shall be cleared of Flammables and Combustibles before commencing welding. 	1	3	L	Execution Team

Risk Matrix

LIKELIHOOD		SEVERITY						Consequences:
		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	
1	1	1	2	3	4	5	6	6 – Catastrophic – Multiple fatalities 5 – Major - Single Fatality 4 – Serious – Permanent disability 3 – Moderate – Lost Time Injury 2 – Minor – Medical Treatment 1 – Insignificant – First Aid Case
2	2	2	4	6	8	10	12	
3	3	3	6	9	12	15	18	
4	4	4	8	12	16	20	24	
5	5	5	10	15	20	25	30	
6	6	6	12	18	24	30	36	
	24 - 36	Extreme	Immediate action required, Activity should not to proceed in current form					
	15 - 20	High	Prompt action required, including interim actions. Activity should be modified to include remedial action and planning.					
	8 - 12	Medium	Schedule action including any interim countermeasures e.g. implement safe work procedures, signage, instructions					
	4 - 6	Low	Activity can operate subject to management and or modification,					
	1 - 3	Very Low/ Negligible	Risk almost certainly acceptable, no action required unless escalation of risk is possible					

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Page 3 of 3

LIKELY FREQUENCY:

Likelihood (of Adverse Event Occurring)			
	Description	Health & safety	Environmental
6	Almost certain or imminent	Occurs all the time	Continuous or will happen frequently
5	Highly likely	Common occurrence, Occurs multiple times in a year	Happens 5 – 10 times per year
4	Likely or could occur	Know to occur in the last 12 months	1 – 5 times per Year
3	Not likely, but possible	Has occurred in an industry worldwide	Once every 5 years
2	Unlikely	Has not occurred in over 10 years of the same activity	Not happened in over 10 years
1	Rare	Theoretically possible, but not expected to occur	theoretically possible, but not expected to occur

Prepared by:		Approved by:	
Sign:	Date: 00/00/2025	Sign:	Date: 00/00/2025