RISK ASSESSMENT-WELDING

Activity:	Welding	**RA No.**	
Location:	ABC	**Date :**	
Persons at Risk:	Welder technician, Piling Operatives / Site Operatives	**Revision Status**	
Equipment to be used:			
Hard Hat, Safety Goggles, Ear Protection, High-Visibility Vest, Gloves, Steel-Toed Boots, Respirator/Mask, Welding PPE, Safety Harness, Safety Belt, Fire Extinguisher, Safety Signage, Chemical-Resistant Gloves, Lockout/Tag out Equipment , Fall Arrest System, Safety Netting		**Revision No.:**	**Revised Date:**
		NA	NA

Potential Hazards / Conditions considered (Tick Box)				**Persons at Risk**			
Fall From Height	☒	Falling of Materials	☒	Subcontractors	☒	Public	☐
Electricity	☒	Slips/Tripping	☒	Employees	☒	Visitors	☐

Personal protective equipment's (PPE)

☒	Safety Helmet	☒	Respiratory / Berating Apparatus	☒	Gloves	☒	Goggles	☐	Full Body Safety Harness
☒	Safety Boots	☒	Overalls	☒	Masks	☐	Ear Plugs/ Defenders	☐	Others, if any

Mandatory HSE requirements (Tick Box)

☒	Safety Induction	☒	Proper PPE	☒	Work Permit	☒	Proper Tools/ Equipment'	☒	Proper Barricade & Warning Sign in The Affected area
☒	Tool Box Talk	☒	Safe Work Place	☒	Proper Supervision	☒	Pre-Task Briefings	☐	Others, if any

Risk Level: H (HIGH-Potential to cause death or permanent injury) | M (MEDIUM –Potential to cause loss time injury) | L (LOW- An injury treatable with First Aid)

Likelihood (L)	Severity (S)	Class of risk (L*S)
Improbable	Negligible	High = 15-25
Remote	Minor	
Probable	Reportable	Medium = 07-14
Occasional	Serious	Low = 01-06

LIKLIHOOD (L)

RISK MATRIX

5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5

Note:

1. Risk assessment must be addressed to workers by work in charge before starting job.
2. Risk assessment is a continuous process hence to be reviewed depending on activity and risk involved

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				SEVERIETY (S)	

Sr.	Activity	Hazard	EVALUATION			Control Measures in place or to be implemented	RE-EVALUATION			Persons responsible for Implementation and Supervision.
			L	S	R		L	S	R	
1.	Welding	• Burns from weld splatter • Fire • Arc Eye' • Fumes/ respiratory problems • Explosion	4	4	16	• Hot works permit to be issued before commencement • All personnel not directly involved should be kept clear of operation (barriers to be erected by the Main Contractor) • Suitable PPE must be worn i.e. safety boots, gauntlets or gloves (not rubber), burning goggles, safety helmet, mask, and flame retardant overalls. • Mechanical soundness of welding equipment should be checked before use. Ensure the welding machine is properly earthed. • Welding area should be kept clean and dry. • Welding to be carried out by competent persons. • Hi-Viz vests are to be removed during burning operations due to increased fire risk (flame retardant overalls to have hi-viz bands) **Hi-viz to be re-worn as soon as the welding operation is completed** • CO2 Fire extinguishers on site (in date and at the place of work). • Welding operatives must wear full-face welding masks during welding operations. • Screens to be used wherever practicable. • Any other personnel near the welding operation must avoid direct visual contact with the welding (Screen to be erected during welding, positioned where practicable). • Welding to be carried out by competent persons. • Welders to wear vented/air-fed masks when stoving/ clutch welding in enclosed work areas • Ensure the welding area is free from flammable materials. • Welding to be carried out by competent persons. • CO2 Fire extinguishers to be available. • Flammable liquids.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians

RISK ASSESSMENT-WELDING

Assessed by (print name, date and Signatures):

Reviewed by (print name, date and Signatures):

HSE Documents