RISK ASSESSMENT FOR THE DISMANTLING AND INSTALLATION OF THE WATER MONITOR

Activity:	Dismantling And Installation Of The Water Monitor	**RA No.**	ABC
Location:	ABC	**Date :**	00-00-0000

Equipment to be used:

		Revision Status	
		Revision No.:	**Revised Date:**
Gas Dictator Dye testing kit (for visual detection of leaks) Pressure gauges and pressure testing equipment Repair clamps or sleeves (for temporary or permanent fixes) Epoxy putty or sealing compounds	Pipe wrenches and pipe cutters Flange or joint gaskets (if applicable) Welding equipment (if the pipe is metal and welding is required) Others, if any	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 (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

RISK MATRIX

LIKELIHOOD (L)					
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
	SEVERITY (S)				

Note:

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

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Sr.	Hazard	Risk	EVALUATION			Control Measures in place or to be implemented	RE-EVALUATION			Persons responsible for Implementation and Supervision.
			Consequences	Likelihood	Likelihood		Consequences	Likelihood	Likelihood	
1.	Electrical Hazards	• Electrical shock can occur if the water monitor is electrically powered	4	4	16	• Ensure the power source is disconnected and locked out/tagged out before starting any work. • Use insulated tools and wear appropriate personal protective equipment (PPE), such as rubber gloves and safety goggles.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
2.	Falling Objects	• Parts of the water monitor or tools can fall from height, causing injury.	4	3	12	• Use safety barriers and warning signs to cordon off the work area. • Secure tools and equipment when not in use. • Ensure workers wear hard hats.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
3.	Manual Handling	• Lifting and moving heavy components can lead to musculoskeletal injuries.	4	3	12	• Provide training on proper lifting techniques. • Use lifting equipment like cranes or hoists when necessary. • Rotate workers to reduce prolonged heavy lifting.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians

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4.	Chemical Exposure	• Exposure to chemicals during cleaning or maintenance.	4	3	12	• Provide workers with appropriate PPE, such as gloves and eye protection. • Ensure proper ventilation in enclosed spaces. • Store chemicals in a well-ventilated, labeled area.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
5.	Confined Space Hazards	• Working in confined spaces can pose risks such as suffocation, toxic gases, or entrapment.	4	3	12	• Conduct a thorough risk assessment before entering confined spaces. • Use gas detectors to monitor air quality. • Have rescue procedures and equipment in place.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
6.	Water Pressure	• High water pressure can cause injury or damage to equipment.	4	3	12	• Isolate and depressurize the water system before dismantling or installing the monitor. • Use pressure relief valves and pressure gauges to monitor pressure.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
7.	Slips, Trips, and Falls	• Wet surfaces, clutter, or uneven terrain can lead to slips, trips, and falls.	4	3	12	• Keep work areas clean and organized. • Use anti-slip mats and appropriate footwear. • Install handrails and guardrails where necessary.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians

Assessed by:			
Name:	**Designation:**	**Date:**	**Signature:**

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Reviewed & Approved By:			
Name:	**Designation:**	**Date:**	**Signature:**