

	-											ABC			
Activity: Installation Of A Motorized Gate Valve					RA No.										
Location: ABC										Date :	00-00-0000				
Equipment	to be used:													Revision Stat	us
Gas Dictato	or					Pipe wrer	nches and p	ipe cutters					Revisio	n No.:	Revised Date:
Dye testing	kit (for visu	al detection	of leaks)			Flange or	joint gaske	ts (if application	able)						
Pressure ga	auges and pr	essure testir	ng equipme	ent		Welding 6	equipment	(if the pipe	is metal an	d welding is	s		N/	۸	NA NA
	•	es (for tempo	orary or pe	rmanent fix	es)	required)							147	Α.	I NA
Epoxy putt	y or sealing o	compounds				Others, if	any		,						
		Potentia	al Hazards	/ Condition	s considered (Tick	Вох)							Persons at	t Risk	1
Fall Fro	om Height			Falling	of Materials			77	Subcontra	actors		Public		Public	
							-								
Elec	ctricity			Slip	s/T <mark>ripping </mark>				Employee	es			V	isitors	
Personal p	rotective eq	uipment (PP	PE)				10			24 /	A M				
	☐ Safety Helmet ☐ Respiratory / Bera		at <mark>or</mark> y / Berating		Gloves			C	Goggles			Full Body Safety Harness			
	Apparatus Apparatus		Ap <mark>p</mark> aratus		Gloves		MH	Совысо							
Safety		y Boots			Overalls		Masks			Ear Plugs/ Defender		ers		Ot	hers, if any
Mandatory	HSE require	ements (Tick	(Box)						_						
☐ Safety Indu		duction		P	roper PPE	r PPE		Work Permit		Proper Tools/				Proper Barricade & Warning Sign in The Affected area	
								Equipment				Allected area			
☐ Tool Box Talk ☐			Safe	e <mark>Work Place</mark>		Proper Supervision			Pre-Task Briefings		gs 🗆		Others, if any		
Risk Level: H (HIGH-Potential to cause death or permanent injury) M (MEDIUM -						DIUM -Pot	ential to ca	use loss tir	ne injury)	L (LOW- A	n injury tre	atabl	e with First Aid	(k	
Likelihood (L) Severity (S) Class of risk					(L*S)				RISK M	ATRIX					
Improbable			Negligible		High = 15	-25	LIK	5	5	10	15	20	25	Note:	
Remote		Minor				4	4	8	12	16	20		nt must be addressed to		
Probable			Reportable		Medium = 0	7-14	ELI	3	3	6	9	12	15	· '	e worker in charge before
Occasional			Serious				НО	2	2	4	6	8	10	starting a job.	nt is a continuous process
					Low = 01-	-06	OD	1	1	2	3	4	5		eviewed depending on the
							(L)		1	2	3	4	5	activity and ri	
							(-)		1			4] 5	- activity allu II	א ווואסואבמ
										SEVERI	ITY (S)				



			EV	ALUATIO	ON		RE-E	VALUA	TION	
Sr.	Hazard	Risk	C o n s e q u e n c e s	L i k e l i h o	L i k e l i h o o	Control Measures in place or to be implemented	C o n s e q u e n c e s	L i k e l i h o	L i k e li h o o	Persons responsible for Implementation and Supervision.
1.	Electrical Hazards Live electrical wires or components.	Electric shock or electrocution when working with electrical components.	4	4	16	 Ensure that power sources are de-energized and locked out/tagged out before starting any work. Use proper personal protective equipment (PPE) such as insulated gloves and safety goggles. Follow electrical safety protocols and guidelines. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
2.	Mechanical Hazards Moving gate valve parts and machinery.	Injuries due to moving parts or equipment.	4	3	12	 Install safety guards and barriers around moving parts to prevent access during operation. Ensure proper training for personnel working with the equipment. Conduct regular equipment inspections for wear and tear. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians



3.	Falling Hazards Unstable platforms, ladders, or scaffolding.	Falls from heights when working on elevated platforms or structures.	4	3	12	 Use fall protection equipment such as harnesses and safety nets. Ensure proper installation and inspection of scaffolding and ladders. Implement a buddy system when working at heights. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
4.	Chemical Hazards Contact with lubricants, sealants, or cleaning agents.	Exposure to hazardous chemicals during the installation process.	4	3	12	 Provide Material Safety Data Sheets (MSDS) for all chemicals used. Ensure proper ventilation and use of respiratory protection if needed. Store and handle chemicals according to safety regulations. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
5.	Transportation and Handling Heavy and awkward valve parts.	Injuries while transporting and handling heavy valve components.	4	3	12	 Use mechanical aids such as cranes or forklifts for lifting heavy components. Train personnel on safe lifting techniques and provide proper lifting equipment. Maintain clear pathways and ensure a clutter-free work area. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
6.	Confined Space Limited space, potential for toxic gases, or lack of oxygen.	Working in confined spaces when installing valves in underground systems.	4	3	12	 Conduct thorough atmospheric testing before entering confined spaces. Implement a permit-to-work system for confined space entry. Ensure workers are trained in confined space rescue procedures. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians



8. Communication and Coordination Confusion, delays, and errors in the installation process. • Miscommunication or lack of coordination among team members. 4 3 4 3 4 5 • Implement clear communication protocols and roles/responsibilities. • Conduct regular team meetings to ensure everyone is on the same page. • Document installation procedures and follow a checklist. 2 3 6 Project Manager/ Project Safety Officer/MEP Technicians	7.	Environmental Accidental release of fluids or contaminants.	Environmental damage due to spills or leaks during valve installation.	4	3	12	 Use spill containment measures such as absorbent materials and drip trays. Have an emergency response plan in place for immediate spill cleanup. Comply with environmental regulations and permits. 	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians
	8.	and Coordination Confusion, delays, and errors in the installation	coordination among team	4	3	12	 protocols and roles/responsibilities. Conduct regular team meetings to ensure everyone is on the same page. Document installation procedures and 	2	3	6	Engineer/Project Supervisor/Project Safety

Assessed by:									
Name:	Designation:	Date:	Signature:						
Reviewed & Approved By:									



Name:	Designation:	Date:	Signature:
	HSE Do	cument	S