

(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **1** of **7**

PROJECT / LOCATION:	DATE OF ASSESSMENT:	DATE OF NEXT ASSESSMENT
ABC	01-01-2025	01-01-2026

TASK / ACTIVITY Piping Erection

SF	What are / tasks /	Who could be harmed and how?	Risk Leve		· · · · · · · · · · · · · · · · · · ·		Risi							Remarks
	activity?		L	S	RR	Measures	required?		S	RR				
1.	Transport of Piping material	☑ Traffic collision☑ Fall of material				 Conduct PEP talk before loading/unloading. Only inspected vehicles found fit shall be engaged. Condition of vehicle shall be checked and approved before transport of units The piping material shall be firmly placed in the truck. Piping material shall be tightly secured using Nylon ropes. Vehicle with suitable platform & foldable side gates shall be engaged to prevent fall of items. 	 Conduct real-time risk assessments before starting transportation, considering weather, road conditions, and visibility. Verify that the load is evenly distributed to avoid overloading axles or tipping hazards. Deploy trained spotters to assist drivers during reversing, turning, or navigating tight areas. Install GPS tracking and telematics to monitor vehicle speed, location, and driving behavior. Use barriers to segregate loading/unloading zones from other activities to prevent unauthorized access. Suspend transportation during extreme weather conditions (e.g., heavy rain, fog, sandstorms) to avoid accidents. 	1	3	L	Site engineer / Section In- charge			



(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **2** of **7**

		HS		Ocume	 Develop and train teams on emergency response protocols in case of accidents, including material spills. Inspect piping materials for any signs of damage or instability before commencing unloading activities. Use forklifts, cranes, or trolleys for handling heavy or awkwardly shaped piping materials instead of manual lifting. Conduct regular awareness sessions for drivers and workers about hazards and safe practices related to material transportation. Equip vehicles with additional lighting for nighttime operations and ensure reflective markings on piping materials. Plan for safe disposal or containment of materials in case 		
				All Personnel equipments shall be worn by workmen.	of accidental spills or leaks. Conduct a task-specific risk		
2.	Piping support work	 Fall of men from Ladder/scaffold. Fall of material from Height. Injury from using drilling machine etc. Dust, debris and Splinters. 		 Ladders used to drill anchor fasteners Should be in good condition. Use of safety helmets, Shoes, safety belts, safety goggles and other relevant PPE's ensured for all workers. Tools and material shall not be scattered around the work place and shall be neatly Stacked in a convenient location. 	assessment before every transportation activity to identify potential hazards and implement tailored controls. Ensure all workers handling the material wear appropriate PPE, such as gloves, safety boots, helmets, and reflective vests.		Site engineer / Section In- charge

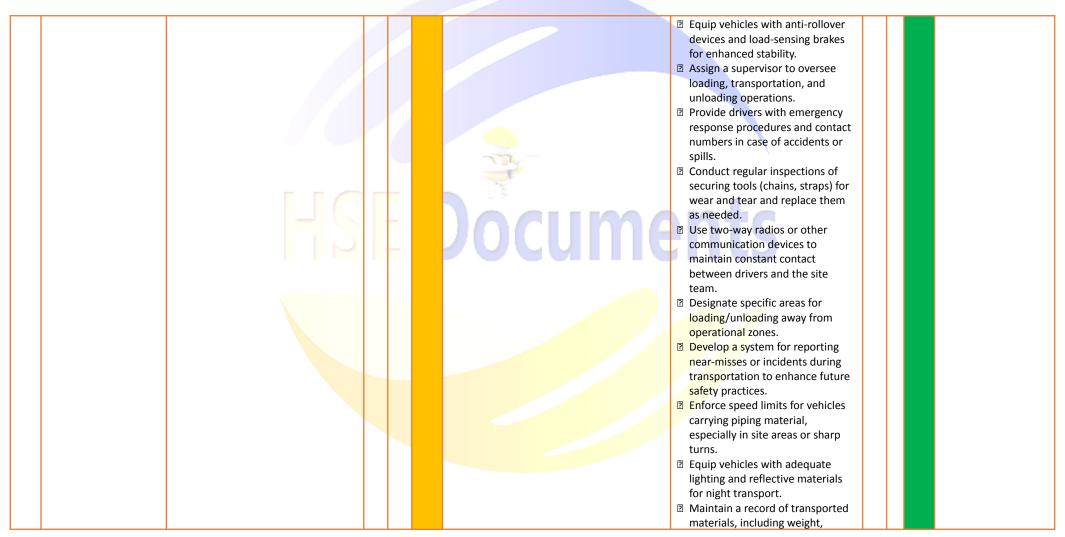


(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **3** of **7**





(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **4** of **7**

				dimensions, and safety checks conducted.	
3.	Piping erection	 Pall of men from Ladder/scaffold. Fall of material from Height. Injury from using drilling machine, pipe cutting tools etc. Dust, debris and Splinters. 	 All Personnel equipments shall be worn by workmen. Ladders used to erect pipe should be in good condition. Use grinding machine, gas cutting sets or flaring tools for pipe cutting works. Use of safety helmets, Shoes, safety belts, safety goggles and other relevant PPE's ensured for all workers. Tools and material shall not be scattered around the work place and shall be neatly stacked in a convenient location. 	 Implement a detailed traffic management plan outlining escort vehicle requirements for oversized or heavy loads. Communicate planned routes to all relevant stakeholders. Equip vehicles with fire extinguishers, spill kits, and first aid kits. Provide drivers with training on emergency response procedures, such as handling a load shift or vehicle breakdown. Monitor weather conditions before and during transport to avoid rainstorms, high winds, or fog. Reschedule transport during adverse weather. Utilize dunnage (wooden blocks or similar materials) to prevent piping materials from shifting. Ensure dunnage is inspected for integrity. Implement rest breaks in line with driving hour's regulations. Monitor drivers' health conditions, particularly for long-haul transport. Equip drivers with reliable two-way communication devices for real-time updates and issue reporting. 	



(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **5** of **7**



Risk Matrix

		Consequences:									
LI		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	6 - Catastrophic - Multiple fatalities			
K E	1	1	2	3	4	5	6	5 – Major - Single Fatality			
LI	2	2	4	6	8	10	12	4 – Serious – Permanent disability			
Н	3	3	6	9	12	15	18	3 - Moderate - Lost Time Injury			
0	4	4	8	12	16	20	24	2 - Minor - Medical Treatment			
O D	5	5	10	15	20	25	30	1 – Insignificant – First Aid Case			
	6	6	12	18	24	30	36	3			
	24 - 36 Extreme	Immediate action requi	Immediate action required, Activity should not to proceed in current form								



(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **6** of **7**

15 -		Prompt action required, including interim actions. Activity should be modified to include remedial
	High	l e la companya de la
20	6	action and planning.
		Schedule action including any interim countermeasures e.g. implement safe work procedures,
8 - 12	Medium	signage, instructions
4 - 6	Low	Activity can operate subject to management and or modification,
	Very Low/	
1 - 3	' '	Risk almost certainly acceptable, no action required unless escalation of risk is possible
	Negligible	

Likely Frequency:

Likeliho	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: HSE Engineer	Reviewed by: HSE Manager	Approved by:



(PIPING ERECTION)

Document No: QHSE-RA-PE-00 Date of issue: 01-01-2025

Revision: 00

Page **7** of **7**

Sign:	Date:	Sign:	Date:	Sign:	Date:
		- W		\	

