

RISK ASSESSMENT FOR INSTALLATION OF HOT & COLD WATER (PPR) PIPING

PROJECT	
CLIENT	
DEVELOPER	
PROJECT MANAGEMENT	
SUPERVISION CONSULTANT	
MAIN CONTRACTOR	
CIVIL CONTRACTOR	
MEP CONTRACTOR	

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Sr. No.	Activity /Task	Hazard	Personnel Involved	Risk	Risk Rating			Risk Level	Controls Measures	Residual Risk Ratings
					P	S	R			
1	Mobilization of PPR Pipes to Site	Traffic Vehiles & Plant	Employees/Client/Sub-Contractor/Visitors		2	2	2	N	<ul style="list-style-type: none"> • Toolbox talk conducted prior to start the job • Used appropriate PPE include safety shoes. • Always carry materials near the body • Keep arms width apart; bend the knees & keep the back straight at all times when carrying the materials • Avoid twisting & jerking the body while carrying the materials • Careful handling of fragile items • Maximum weight to be carried should not exceed more than 25kg in normal conditions. 	
2	Unloading of materials from vehicle by manually	Falling of materials from Truck while unloading	Employees/Client/Sub-Contractor/Visitors		4	3	3	L	<ul style="list-style-type: none"> • Toolbox talk conducted prior to start the job • Used appropriate PPE include safety shoes. • Always carry materials near the body • Keep arms width apart; bend the knees & keep the back straight at all times when carrying the materials • Avoid twisting & jerking the body while carrying the materials • Careful handling of fragile items • Maximum weight to be carried should not exceed more than 25kg in normal conditions. 	
3	Pre-Job set up	Improper hand / small power tools used.	Employees/Client/Sub-Contractor/Visitors		2	2	4	L	<ul style="list-style-type: none"> • Toolbox talk conducted prior to start the job • Select proper tools suitable for specified job. • Check operating conditions of hand/power tools prior to start the job & should be color coded by competent person • Damaged tools shall be removed from the use and tagged to "do not use" • Inspect the power cords for damaged, damaged cords removed from the job • Disconnect the power tools when not in use • Appropriate PPE should be used 	
4	Installation of PPR pipes and fittings	Height Work-peoples Materials Falling from Ladder or Scaffold That May Cause Injury or Fatal	Employees/Client/Sub-Contractor/Visitors		5	4	4	M	<ul style="list-style-type: none"> • Toolbox talk conducted prior to start the job • Work permit must be received prior to start the height work. • Ensure that scaffold or ladder are good condition before climb. • Proper access should be provided & damaged or home mad ladder. • Adequate guard rails should be provided. • Working platform should be clean • Safety harness shall hook to the trusses in such a manner as tube able to arrest his fatal and tie off 100% at height during all works. • Competent supervisor should be on working area at all times. 	

Risk Rating	Severity Factors	Probability factor	Risk Level
8: High Risk	8 : Fatality, Permanent Disability	5 : Extremely High	17-21: High Risk (H)
6: Medium Risk	6 : Serious injury	4 : Highly probable	12-16: Medium Risk (M)
4: Low Risk	4 : Major injury	3 : Probable	9-11 : Low Risk (L)
2: Negligible	2 : Minor injury	2 : Rare	6-8 : Negligible (N)

Prepared by :	MEP QA/QC Engineer
Reviewed by :	DKHSSE Manager (Site)
Verified by :	MEP Project Manager
Confirmed by :	Main / Civil Contractor Project Manager
Approved by :	HSE