

## Hazard Identification and Risk Assessment

Sn	Activity	Hazard / RISK	Existing Control	I	P	Risk Level (IXP)	Additional Control Measures	Categories of Hazards	Residual Risk	Action By
1	Hydraulic Testing	Bursting of Pressure Vessel		5	5	25	<ul style="list-style-type: none"> <li>• Only calibrated pressure gauges shall be used.</li> <li>• While testing water mains, it shall be ensured that all lines, elbows, and valves are supported and equipped with thrust blocks.</li> <li>• No activity shall be done on the pipeline when it is under pressure.</li> <li>• The pipeline shall be depressurized prior to start of any work.</li> <li>• Isolation valve shall be closed when it is required to change the pressure gauge.</li> <li>• Lines shall be pressurized only when no workman is in the manhole or valve chamber.</li> <li>• It shall be ensured that plugs are secure and no one shall be in a manhole when the upstream line is being filled.</li> <li>• When the pipeline is under pressure nobody shall be allowed to be by the side of the temporary blanking.</li> <li>• The areas shall be kept barricaded.</li> <li>• Pep talk shall be given before the execution of the work</li> <li>• Adopt safe execution card and permit to work system.</li> <li>• Adhere to the safe operating procedures.</li> <li>• Appropriate information, instruction and supervision shall be provided to workers</li> <li>• Conduct periodical Mock Drill at site</li> <li>• Use of appropriate personal protective equipment.</li> </ul>	Physical Hazard	High Risk	Site Engineer