

**PROJECT NAME**

**ACTIVITY– INSTALLATION OF SLEEVES AND PUDDLE FLANGES.**

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Serial No.	Sub-Activities	Hazards Identified (Generic & Task)	Risks Involved (People & Property)	Risk Rating			Control Measures	Residual Risk
				Severity	Probability	Initial Risk		
1.	Prepare work area	<ul style="list-style-type: none"> <li>Unauthorized, untrained workers</li> </ul>	<ul style="list-style-type: none"> <li>Cuts</li> <li>Abrasions</li> </ul>	2	A	L	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Task specific safety training to be provided</li> <li>Authorized personnel to undertake the job</li> <li>Daily safety inspection should be carried and eliminate the hazard</li> </ul>	Low (ALARP)
2.	Manual Handling	<ul style="list-style-type: none"> <li>Incorrect lifting of loads</li> <li>Sharp edges.</li> <li>Placing the object while fingers underneath.</li> </ul>	<ul style="list-style-type: none"> <li>Back Injuries</li> <li>Cut to finger</li> <li>Strain</li> <li>Musculoskeletal Injuries</li> </ul>	3	C	M	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Task specific safety training to be provided</li> <li>Any lifting tasks shall be carried out by persons physically capable to do so</li> <li>No employee should be asked to carry loads above his capacity and in any case no load shall exceed 30kg per man.</li> <li>Mass of the load is more then to be equally shared</li> <li>Deploy enough number of personnel for lifting shall be appointed to the task depending upon the type of load to be lifted.</li> <li>Use easy mode of transport like trolley and crane truck etc.</li> <li>Proper personal protective equipments to be used while manual handling of materials and loads.</li> <li>Load not to be lifted above your shoulder height</li> </ul>	Low (ALARP)
3.	Working with Hand tools	<ul style="list-style-type: none"> <li>Slip, trip and fall</li> <li>Damaged handles</li> <li>Damaged tips</li> <li>Using incorrect type</li> <li>Mushroom Heads</li> </ul>	<ul style="list-style-type: none"> <li>Fatigue</li> <li>Trigger finger</li> <li>Cuts and abrasions</li> </ul>	3	C	M	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Task specific safety training to be provided</li> <li>Use right tools for the job</li> </ul>	Low (ALARP)

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							<ul style="list-style-type: none"> <li>Defective tools should not be issued or used to perform the task, to be checked by store keeper</li> <li>Don't extend the spanner by using a pipe as an extension bar</li> <li>Never use a file as a lever</li> <li>Never use a screw driver as a chisel</li> <li>Don't work with oily or greased hands</li> <li>PPE ( Gloves , goggles, helmet, vest, shoe, overall ) to be worn</li> </ul>	
4.	Working with power tools	<ul style="list-style-type: none"> <li>Defective equipment</li> <li>Electrocution</li> <li>Improper use of equipment</li> <li>Poor maintenance</li> <li>Untrained workers</li> <li>Flying object</li> <li>Noise and vibration</li> </ul>	<ul style="list-style-type: none"> <li>Hearing losses</li> <li>Eye injury</li> <li>Crushing</li> <li>Back injury</li> <li>Burns</li> </ul>	3	C	M	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Job related training to be provided</li> <li>PTW to be applied and obtained prior to start, If spark producing activity is performed</li> <li>Defective tools should not be issued or used to perform a task.</li> <li>Monthly inspection should be carried out by the electrician and record to be kept at the store and tools</li> <li>All portable power tools should be fitted with adequate fuse protection either in the tool body or in its electrical plug.</li> <li>The weight, size and type of tool should be selected to suit the job being carried out.</li> <li>Don't lay the cables around the access way, it should be proper routing</li> <li>Industrial distribution board and socket only to be used at site</li> <li>Correct rate of breaker should be used ( Ex:- 30ma only acceptable)</li> <li>Only those persons who have been adequately trained and experienced in the use of the tool should be allowed to use the same.</li> </ul>	M (ALARP)

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No.		(Generic & Task)	(People & Property)	Severity	Probability	Initial Risk		Risk
Serial	Sub-Activities	Hazards Identified	Risks Involved		Risk Rating		Control Measures	Residual
							<ul style="list-style-type: none"> <li>Tools should be stored and maintained in good working condition.</li> <li>Appropriate PPE Should use ( Face shield, Goggles, Gloves, Shoe, Helmet, Overall, Vest )</li> </ul>	
5.	Stacking and Storing	<ul style="list-style-type: none"> <li>Material fall from height</li> <li>Improper stacking</li> <li>Collapse</li> </ul>	<ul style="list-style-type: none"> <li>Crush</li> <li>Cut and abrasions</li> <li>Damage to property</li> </ul>	3	B	M	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Task specific safety training to be provided</li> <li>All materials shall be stored below 2 meter height.</li> <li>Only known person should be there to identify the materials easily.</li> <li>If the material is too heavy, use hydraulic trolley to shift the material.</li> <li>PPE ( helmet, shoe, vest, overall, gloves) must be worn at all times while during the activity</li> </ul>	Low (ALARP)
6.	Fixing of Sleeve in the steel part	<ul style="list-style-type: none"> <li>Unauthorized and untrained Workers</li> <li>Sharp steel edges</li> </ul>	<ul style="list-style-type: none"> <li>Cut and abrasions</li> <li>Crush</li> <li>Trigger finger</li> </ul>	2	C	M	<ul style="list-style-type: none"> <li>TBT/DSTI to be conducted by the foreman/ safety officer prior to work commencement</li> <li>Assigned person only to undertake the job</li> <li>PPE ( helmet, shoe, vest, overall, gloves) must be worn at all times while during the activity.</li> </ul>	Low (ALARP)
7.	While working at night shift	<ul style="list-style-type: none"> <li>Poor illumination</li> <li>Slip/trip/fall</li> </ul>	<ul style="list-style-type: none"> <li>Fatality</li> <li>Cuts</li> </ul>	3	B	M	<ul style="list-style-type: none"> <li>Proper illumination to be provided</li> <li>light post to be secured from fall</li> <li>Proper cable management system to be Followed</li> <li>All materials to be staged in proper manner without obstacles</li> </ul>	Low (ALARP)

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No.		(Generic & Task)	(People & Property)	Severity	Probability	Initial Risk		Risk
8.	Working in hot weather	<ul style="list-style-type: none"> <li>• Heat</li> </ul>	<ul style="list-style-type: none"> <li>• Dehydration</li> <li>• Sunburn</li> <li>• Skin Cancer</li> </ul>	2	B	M	<ul style="list-style-type: none"> <li>• Drink plenty of water</li> <li>• Proper awareness of heat stress symptoms</li> <li>• Avoid highly physical tasks during the hottest part of the day</li> <li>• Isotonic drinks to be provided</li> </ul>	Low (ALARP)
9.	Work Completion	<ul style="list-style-type: none"> <li>• Poor housekeeping</li> <li>• Slip/trip/fall</li> </ul>	<ul style="list-style-type: none"> <li>• Fire</li> </ul>	2	A	L	<ul style="list-style-type: none"> <li>• General housekeeping, Remove all surface, unwanted waste materials from the building</li> <li>• All necessary precautions will be adopted to prevent fire</li> </ul>	Low (ALARP)

**RISK MATRIX**

Probability

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					A	B	C	D	E
Severity	People	Assets	Environment	Reputation	Improbable 1 in 100,000 Years	Remote 1 in 10,000 Years	Occasional 1 in 1000 years	Probable 1 in 100 years	Frequent 1 in 10 years
5-Catstrophic	Multiple fatalities or permanent total disabilities	Extensive damage	Massive effect	International impact	<p style="text-align: center;"><b>Medium Risk (ALARP)</b></p>	<p style="text-align: center;"><b>High Risk</b></p>			
4-Severe	Single fatalities or permanent total disabilities	Major damage	Major effect	National impact					
3-critical	Major injury or health effects	Local damage	Localized effect	Considerable impact					
2-Marginal	Minor injury or health effects	Minor damage	Minor effect	Minor impact					
1-Negligible	Slight injury or health effects	Slight Damage	Slight effect	Slight impact					
					<p style="text-align: center;"><b>Low Risk</b></p>				

HIGH	<p>3-E 4-C,D,E 5-B,C,D,E</p>
MEDIUM	<p>1-D,E 2-B,C,D,E 3-A,B,C,D 4-A,B 5-A</p>
LOW	<p>1-A,B,C 2A</p>