

HAZARD IDENTIFICATION AND RISK ASSESSMENT

Department:	HIRA No.:	Date:
Job Title:	Lifeline Installation over Roof	Section/ Location:
Date of Review at Job site:		Reference OCP (SOP/SMP) No.:
Area:		Routine /NonRoutine: Routine
Risk assessment team members:		Normal/Abnormal/Emergency: Normal

SN	Basic step of the Job	Hazard(s) associated with the step	Impact	Existing control measure to mitigate hazard	Existing / Base Risk			Additional control measure	Responsible Official to implement	Implementation Status	Residual Risk		
					P	S	Risk				P	S	Risk
1	Shifting of material from store to site Manually	1. Hit by unseen obstacles.	1.Physical injury of the workmen	1.Tool box talks to be conducted	2	3	6	1.Continuous monitoring			2	3	6
		2.slip and trip.	2. Damage of materials	2.Proper supervision				2.Road safety Training imparted to workmen					
		3. Minor cut in figure.	1.Physical injury of the workmen	3.Use of safety shoe ,Hand gloves ,Nose mask, Goggles,hard hat as prescribed in PTW.									
		4. Road accident	1.Physical injury of the workmen	4.Proper supervision									
2	Unloading and shifting of material from site to roof Manually through access stair and rope arrangement	1. Fall of material	1.Physical injury to the workmen	1.Proper sized tested rope is used.	2	3	6	1. Training imparted to all					
		2.Fall of person	2.Physical injury to the workmen	2.Trained person are deployed for this lifting. Ensure to use saefty harness with two point anchorage system.				2.Life line tied all arround the roof and FBH is anchored to prevent falling person .					
		3.Injury by Material Falling	3.Physical injury to the workmen	3.Area must be Barricaded.				3.Proper supervision					
		4.slip and trip of Material		3.No person is allowed to enter the barricaded area while lifting the load.									
				4.Safety helmet must be used.									

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3	Access to height through portable ladder	Fall of person from height	Physical Injury / Serious Injury	1.Inspection of ladder before use	2	3	6	1. Defective ladders to be tagged and discarded.					2	2	4			
				2. Proper anchoring of the ladder.				2. Testing procedure to be adopted.										
				3. Only trained workmen are allowed to perform the job ensuring the proper uage of safety harness with two point anchorage..														
		Fall of materials / tools from height.	Physical Injury	1.safety helmet must be worn by the person standing at the lower platform.	2	4	8	Toolbox talks regarding height safety must be conducted before starting the job.						2	3	6		
		Being struck by dropped object while carrying or working with tools on a ladder	Physical Injury	1.safety helmet must be worn by the person standing at the lower platform.	2	3	6	Tool Lanyards are used to avoid slipping / fall of tools.								2	3	6
4	Creating a temporary anchorage system	1.Fall of person / tools	Physical Injury	Trained workmen to be engaged. Two point anchorage system to be maintained.	2	4	8	Work permit to be taken before starting the job.								2	3	6
5	Drilling & fixing the anchor attachments on roof sheet for Installation of anchors	splash of materials , Minor cut / injury	Physical Injury	Trained workmen to be engaged. Person should be atached with the temporary lifeline while fixing the anchors in a 12 meter span.	2	3	6	Work permit to be taken before starting the job.								2	3	6
6	Installation of Lifeline system	Fall of person from height	Physical Injury	Trained workmen to be engaged. Person should be using the safety harness with two point anchorage system.	2	3	6	Work permit to be taken before starting the job.								2	3	6
7	Access to Roof monitor	Fall of person / tools from height	Physical Injury	1.Inspection of ladder before use	2	3	6	1. Defective ladders to be tagged and discarded.										
				2.Proper anchoring of the ladder.														
				3. Only trained workmen are allowed to perform the job ensuring the proper uage of safety harness with two point anchorage..														
				1.safety helmet must be worn by the person standing at the lower platform.				2. Testing procedure to be adopted.										
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8	Creating a temporary anchorage system over roof monitor	1.Fall of person / tools	Physical Injury	Trained workmen to be engaged. Two point anchorage system to be maintained.	2	4	8	Work permit to be taken before starting the job.				2	3	6
9	Drilling & fixing the anchor attachments on roof sheet for Installation of anchors	Electrocution	Seriuos Injury.	Connection through Battery operated. Electrial checklist of machine to be filled Periodical Verification of Machine from Electrical Department.	1	4	4	Work permit to be taken before starting the job.				1	4	4
		Inhalation of dust	Physical Injury to the workmen	Use of Nose mask mandated	2	3	6					2	3	6
		Flying object may hit eye	Eye injury	Use of Goggles Mandated Workmen to stay away from the working area	2	3	6					2	3	6
10	Installation of Lifeline system	Fall of person from height	Physical Injury	Trained workmen to be engaged. Person should be using the safety harness with two point anchorage system.	2	3	6	Work permit to be taken before starting the job.				2	3	6
11	Fixing of Anchor to create a temporary life line	Finger may stuck between anchor and hammer	Physical Injury to the workmen	Non slipping tool to be used	1	5	5					1	5	5
		Contact with eye	Eye injury	Use of Goggles Mandated Provision of eye wash	2	3	6					2	3	6
		Fall of person	Physical Injury to the workmen	Fixing of the anchor point to nearest point of the structure & then fixing of 2nd anchor point within a span of 12 mtrs and instaling a temporary life line system	2	3	6	Avoid climbing without safety harness while fixing the 1st anchor two point anchorage system to be followed .continue installing anchors maintaining the same process.				2	3	6
12	Descending from height after Installation	Fall of person from height	Physical Injury	Trained workmen to be engaged. Person should be using the safety harness with two point anchorage system.								2	3	6