

Project Name

ACTIVITY– SMOKE MANAGEMENT SYSTEM

Ref No:
Rev.No:0
Page 1 of 4

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"> Unauthorized, untrained workers Poor illumination 	<ul style="list-style-type: none"> Cuts Abrasions Slip, trips 	2	A	L	<ul style="list-style-type: none"> TBT/DSTI shall be conducted by the foreman/ safety officer prior to work commencement. Task specific safety training to be provided. Authorized personnel to undertake the job. Daily safety inspection should be carried out and eliminate the hazard. Sufficient illumination shall be provided at work place. 	Low (ALARP)
2.	Use of Hand tools (Hammer.)	<ul style="list-style-type: none"> Slip, trip and fall Damaged / worn out hand tools Flying objects Mushroom Heads Using incorrect type 	<ul style="list-style-type: none"> Fatigue Trigger finger Cuts and abrasions 	3	C	M	<ul style="list-style-type: none"> Hand tools shall be free from oil, grease & etc. Damaged tools shall not be used. Tools shall not be kept around the work area, it may causes to slip, trip and fall. Use right tools for the job Use eye/ face protection when there is flying materials hazard, wear gloves while required to protect the hands. 	Low (ALARP)
2.	Manual Handling	<ul style="list-style-type: none"> Incorrect lifting of loads Sharp edges. Placing the object while fingers underneath. Slip/trip/fall (same level) Unsafe posture 	<ul style="list-style-type: none"> Back Injuries Cut to finger Strain Musculoskeletal Injuries 	3	C	M	<ul style="list-style-type: none"> Use mechanical aids such as trolley etc. Any lifting tasks shall be carried out by persons those physically capable to do so. Deploy enough number of personnel for lifting depending upon the type of load to be lifted. Load not to be lifted above your shoulder height Keep your fingers away from pinch point while placing the load. Materials shall not be carried through pedestrian access. Area shall be illuminated with adequate lighting. Appropriate personal protective equipments shall be used while manual handling of materials and loads. 	Low (ALARP)

Project Name

ACTIVITY– SMOKE MANAGEMENT SYSTEM

Ref No:
Rev.No:0
Page 2 of 4

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							<ul style="list-style-type: none"> • Communicate to all personnel about testing & commissioning. • Emergency procedure shall be briefed to all personnel prior to start the activity. • Emergency evacuation plan shall be readily available according to site condition and briefed to the workforce prior to start. • Emergency contact numbers shall be displayed at work location for easy communication. • Warning signs and boards should be provided and area to be well barricaded • Appropriate PPE shall be worn at all times. 	
4.	Working with electricity, using lamp for testing <i>Using Multimeter</i>	<ul style="list-style-type: none"> • Electricity • Conductors (water, metal, concrete) • Broken wires • Improper plug, case • Overloading • Fire 	<ul style="list-style-type: none"> • Electrocutation or death • Burns and shocks • Muscle contraction • Heart , lung Paralysis • Property damage 	4	C	H	<ul style="list-style-type: none"> • Only those persons who have been adequately trained and experienced in the work of electricity to allow for the same. • Electrical work shall not carry out in wet Conditions. • Do not overload to the circuits. • Don't use homemade electrical accessories and use industrial type only. • Multi meter used at site shall have valid calibration certificates • Defective tools and equipment should not be used, report it and replaced it immediately. • Temporary power supply shall be taken through standard rated MCBs & RCBs. • Temporary power supply cables shall not have joints. • Barricade the location and signage to be placed where circuits and equipment's are energized. • Appropriate PPE shall be worn while working in energized circuits. (Insulated gloves, electric resistivity shoe) 	Low (ALARP)

Project Name

ACTIVITY– SMOKE MANAGEMENT SYSTEM

Ref No:
Rev.No:0
Page 3 of 4

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5.	While working at night shift	<ul style="list-style-type: none"> • Poor illumination • Slip/trip/fall 	<ul style="list-style-type: none"> • Fatality • Cuts 	3	B	M	<ul style="list-style-type: none"> • Work notification shall be applied and obtained prior to start the night work from main contractor. • Sufficient illumination shall be provided. • Light post shall be secured to avoid fall. • Proper cable management system shall be Followed • All materials shall be staged in proper manner without obstacles. 	Low (ALARP)
6.	Work Completion	<ul style="list-style-type: none"> • Poor housekeeping • Slip/trip/fall 	<ul style="list-style-type: none"> • Fire 	2	A	L	<ul style="list-style-type: none"> • General housekeeping, Remove all surplus and unwanted waste materials from the work place. • All necessary precautions will be adopted to prevent fire 	Low (ALARP)

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ACTIVITY– SMOKE MANAGEMENT SYSTEM	Ref No: Rev.No:0 Page 4 of 4
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RISK MATRIX

					Probability				
					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	Medium Risk (ALARP)	High Risk			
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					
					Low Risk				

HIGH	3-E 4-C,D,E 5-B,C,D,E
MEDIUM	1-D,E 2-B,C,D,E 3-A,B,C,D 4-A,B 5-A
LOW	1-A,B,C 2A