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| **S.N.** | **ACTIVITY** | **HAZARD** | **CAUSES OF HAZARD** | **CONSEQUENCES/ IMPACT** | **RISK EVALUATION** | | **RISK LEVEL** | **IMPLEMENTED CONTROL MEASURES** | **RESIDUAL RISK** | | | **ACCEPT Y/N?** |
| **P** | **S** | **H/M/L** | **P** | **S** | **H/M/L** |
| **1** | Material delivery | Falling object from  Loose materials | Unstable stacks; uneven grounds; door frame nit stacked properly. Or Material may kept too high. | Injuries to parts of the body; Damage to property | 2 | 2 | 4 | * Off-loading of materials with the use of mobile plant (e.g. forklift); only competent person to operate machine, riggers must be assisting the operator at all times during operation. * Supervisor should have a stacking program at all times indicating direction and height * Floors/grounds used for stacking must be kept level and free from obstructions at all times * All stackers to be trained on how to stack properly and safely   Daily Safe Task Instructions must be conducted by the SRS prior to work commencement on a daily basis indicating all the associated hazards and risks together with the control measures identified under the scope of work. Site operatives must sign in the form as proof of attendance and understanding of all the items raised and discussed | 2 | 2 | 4 | Y |
| **2** | Shifting of materials to site. | - Falling Objects. Failure of careless. | -Carry the materials without caring of the weight of the weight of the and number of people to carry to avoid falling down | - Injuries damage of the body.  - Damage to Property | 3 | 3 | 9 | * Use required number of people to carry the materials. * Experienced person should give them the instruction to have clean idea simple way to carry.   Do not take carry in proper way. Do not use single handed. Persons should carry evenly. | 2 | 2 | 4 | Y |
| **3** | Applying adhesive  mixing and application | Dust Pollution Chemical Exposure | Inadequate PPE provision  Failure to deploy trained personnel and barricading the work area | - Illness  - Skin irritation  - Breathing difficulty  - Long term lung cancer | 2 | 2 | 4 | * Provide regular toolbox talk. * Follow the MSDS provided by the manufacturer’s instruction. * Wear air filter dusk mask, Safety goggles. * Provide body wash facilities. * Closed supervision. * Disposal of waste materials on regular intervals. * All chemicals must be supplied with Materials Safety Data Sheets (MSDS) detailing action in an emergency. Data sheets must be submitted to CRM department. * The workplace area must be well ventilated and illuminated to prevent fumes build-up   MSDS should be well communicated to all operatives and instruction should be followed. |  |  |  | Y |
| **4** | Application of foam filling and Silicon | - Chemical Exposure,  That make difficulties in breathing | Untrained personnel performing task  Materials lying haphazardly | - Illness  - Skin irritation - Breathing difficulty | 1 | 2 | 2 | * Use MSDS recommended PPE. * Provide hand washing facility. * All personnel must be trained for the knowledge material. * Restrict the area of execution. * Post warning sign. * All chemicals must be supplied with a Materials Safety Data Sheets detailing action in an emergency and data sheets must be submitted to CRM department   Vigilance to avoid slip and trip hazards caused by discarded equipment, wet floors, cable runs, water hose etc. | 1 | 2 | 2 | Y |
| **5** | Drilling on concrete wall for fixing of wall cabinet. | falling to body | Failure to follow the usage of proper P.P.E  Unauthorized person handling the machine. | Fatality, injury to the person and property damage, | 4 | 4 | 16 | Use proper people who know the idea about the machinery to use.  Barication / caution board. (Caution – Men working overhead) | 2 | 2 | 4 | Y |
| **5** | Using ladder or scaffolding | Fall from height | Failure to follow the usage of proper P.P.E | Major Injury or death.  Damage to property | 2 | 3 | 6 | Inspect the ladder/scaffold structure for defects before starting the job. (Use scaffolding inspection tags certify safe to use)  Wear the safety belt.  Ensure scaffolding or Ladder installed properly.  Very careful when climb up.  Wear proper PPE. | 2 | 2 | 4 | Y |
| **6** | House keeping | Accident | Failure to follow the usage of proper P.P.E and improper Housekeeping. | Injury to body  Damage to property. |  |  |  | Clean the work area adequately. Keep all the tools and equipment in designed area. Do not keep any hand tool on the floor. |  |  |  |  |
| **7** | Using of Electrical Appliance | Usage of handling of portable power tools. | Improper inspection of tools , and electricity and unskilled operators and mechanical failure | Major Injury or Death | 3 | 3 | 9 | Understand purpose and usage of tool. Aware of all sings mentioned on the electrical panel. | 2 | 2 | 4 | Y |

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| Persons in danger |
| * Workers undertaking the work |
| * Persons passing the site location/ truck routes, e.g. members of the public and persons who working for different job. |
| Personal protective equipment |
| Safety Helmet, Gum Boot, Proper Gloves & Safety Goggles, safety Belt |
| Information, instruction and training |
| All personnel in the team are to be made aware of the safe systems of work. |
| Ensure that good housekeeping standard is maintained throughout.  Training and experience for personnel to use electrical equipments and vibratory equipments.  Educate the personnel to handle chemicals such as electrical equipment, adhesive, Fire fighting.  Understand the where the emergency point.  Know the where the firefighting equipment has placed. |
| Emergency procedures |
| Site emergency procedures should make provision for the rescue of individuals from heights. |
| First-aid facilities should be available to cope with any significant injuries that may arise from the work. |
| Monitoring and review |
| Work should be monitored by Foreman and charge hands who are trained to ensure that any additional precautions or equipment required are provided. |

**RISK ASSESSMENT COMMITTEE**: Project Manager/ Project Engineer

Safety Manager/ Safety Officer

**Reviewed by:** (Safety Officer) **Approved by:** (Project Manager)

**RISK MATRIX**

**Risk Rating (RR) – Severity x Likelihood**

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| **LIKELIHOOD**  **(PROBABILITY)**  **(P)**  **SEVERITY**  **(IMPACT)**  **(S)** | | **Rare**  Remote possibility (once every 3 years or more)  **1** | **Unlikely**  Could happen but rare (typically once in a year)  **2** | **Possible**  Could happen occasionally (on average quarterly)  **3** | **Likely**  Could happen often (on average once a month or more)  **4** | **Almost certain**  Could happen frequently (once a week or more)  **5** |
| **Insignificant** | **1** | **Low**  **1** | **Low**  **3** | **Low**  **3** | **Low**  **3** | **Medium**  **3** |
| **Minor** | **2** | **Low**  **2** | **Low**  **3** | **Medium**  **2** | **Medium**  **2** | **Medium**  **3** |
| **Moderate** | **3** | **Low**  **3** | **Medium**  **2** | **Medium**  **1** | **Medium**  **2** | **High**  **5** |
| **Significant** | **4** | **Low**  **4** | **Medium**  **1** | **Medium**  **2** | **Low**  **1** | **High**  **1** |
| **Major** | **5** | **Low**  **5** | **Low**  **1** | **Low**  **1** | **Low** | **High**  **1** |

**RISK BASED CONTROL PLAN**

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| --- | --- |
| **RISK LEVEL** | **ACTION AND TIMESCALE** |
| **1-4**  **Low** | Quick, easy controls should be implemented immediately and further action planned for when resources permit. Monitoring required ensuring controls are maintained. Manage through routine procedures. Go for economic improvements where possible. Incident report must be completed. |
| **5-12**  **Medium** | Aim to reduce risks but costs of prevention may be limited. Undertake a risk assessment of the situation / task and implement the appropriate actions. Actions should have a timescale and should be monitored. Where the risk involves work in progress undertake a risk assessment as soon as possible to ensure the safety of the situation or task. **Work should not start until the risk is reduced to an acceptable level.** Considerable resources may have to be allocated. Contact your Manager and Risk Manager by telephone about the actions that should be taken to reduce the risk/s. incident report must be completed. Incident must be added to service risk register. |
| **15-25**  **High** | **Do not commence the activity until** a risk assessment has been completed to ensure the safety of the situation or task. If it is not possible to reduce or eliminate the risk even with unlimited resources, work must remain prohibited. Inform your relevant Director, your Manager and the Risk Manager immediately by telephone. Incident report must be completed. Incident must be added to service risk register. |