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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; Materials are not 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 materials the site. | - Falling Objects. Failure of careless  - | -Carry the materials without caring of the weight of the material and door number of people 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 carefully. Do not carry single handed. Persons should carry evenly. | 2 | 2 | 4 | y |
| **3** | Installation | Improper alignment of materials | Careless during installation  Inadequate PPE provision  Failure to deploy trained personnel and barricading the work area | - Injuries to the body and for the property. | 2 | 2 | 4 | * Provide the adequate PPE. * Handling of Materials. * Concentrate on installation. |  |  |  | Y |
| **4** | DRILLING in concrete in case of dry fix | Inhalation of dust | Failure to follow the usage of proper P.P.E | DIFFICULTY FOR BREATHING | 2 | 3 | 6 | * Use dust masks. (S) * Periodical housekeeping to be maintained. | 2 | 2 | 4 | Y |
| **5** | DRILLING in concrete in case of dry fix | Usage of handling of portable power tools.  • | Improper inspection of tools and unskilled operators and mechanical failure | Fatality, injury | 3 | 3 | 9 | * – Usage of portable power tools | 2 | 2 | 4 | Y |
| **6** | DRILLING in concrete in case of dry fix | Eye injury | Failure to follow the usage of proper P.P.E  Improper inspection of tools and unskilled operators | injury | 4 | 4 | 16 | * Use safety goggles wherever there is a possibility of eye injury (S) * Maintain safe distance with other worker, while doing drilling, chipping operation | 3 | 3 | 9 | 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 in the Vehicles. |
| Personal protective equipment |
| * Safety Helmet, Gum Boot, Proper Gloves & Safety Goggles |
| 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 concrete… |
| 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 hand 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**  **2** | **Low**  **3** | **Low**  **4** | **Medium**  **5** |
| **Minor** | **2** | **Low**  **2** | **Low**  **4** | **Medium**  **6** | **Medium**  **8** | **Medium**  **10** |
| **Moderate** | **3** | **Low**  **3** | **Medium**  **6** | **Medium**  **9** | **Medium**  **12** | **High**  **15** |
| **Significant** | **4** | **Low**  **4** | **Medium**  **8** | **Medium**  **12** | **High**  **16** | **High**  **20** |
| **Major** | **5** | **Medium**  **5** | **Medium**  **10** | **High**  **15** | **High**  **20** | **High**  **25** |

**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. |