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|------------------------------------------------------------------------------|-----------------|--|--|--|------------------------------------------|--|
| <div>RaMs Pro Zone</div> <div>RISK ASSESSMENTS &amp; METHOD STATEMENTS</div> | RISK ASSESSMENT |  |  |  | Document No: RAMSPROZONE-MASTER-RA -001  |  |
|                                                                              | MASTER          |  |  |  | Date of issue: XX-XX-2025<br>Revision:00 |  |

|                                          |                                |                                          |            |                   |            |
|------------------------------------------|--------------------------------|------------------------------------------|------------|-------------------|------------|
| Company:                                 |                                | Conduct By (Name/ Designations and Date: |            |                   |            |
| Project Name:                            |                                |                                          |            |                   |            |
| Approved By (Name/Designation and Date): | Project Manager: (Name & Sign) | Last Review Date:                        | 21.01.2025 | Next Review Date: | 21.01.2026 |

| Ref | Workplace/Activity/ Process/ Equipment/Materials   | Hazards                                                                          | Risks Issue (Possible incident)<br>[What can go wrong]<br>(Accident/ill health to persons, fire or property loss) | Existing Controls                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Base Risk Ranking<br>(Without Controls) |   |    | Improved Existing Controls /<br>Implementing New Controls | Risk Reduction<br>Action Plan |   |    | Follow up by<br>Whom (name) &<br>By When (date) |
|-----|----------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---|----|-----------------------------------------------------------|-------------------------------|---|----|-------------------------------------------------|
|     |                                                    |                                                                                  |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L                                       | R | RR |                                                           | L                             | R | RR |                                                 |
| 1   | Site Surveying and Layout                          | Musculoskeletal disorders, limbs injuries, cuts, abrasion, back pain.            |                                                                                                                   | Use of manual handling aid to avoid personal injuries and health issues.<br>Use of suitable PPEs to avoid minor injuries.<br>Training about the use of hand tools and information about safe system of work.<br>Inspection of hand tools before use.                                                                                                                                                                                                                     | 3                                       | 3 | 9  |                                                           | 1                             | 2 | 2  |                                                 |
| 1A  |                                                    | Damage to health from adverse environment (Hot & Harsh ambient conditions)       |                                                                                                                   | Provision of heat shelters at the site, for the workers where they can take rest and relax.<br>Provision of cold drinking water at the site.<br>Make sure use of work umbrella<br>Make sure use of drinking water to keep workforce hydrated.<br>Take frequent breaks.<br>Job rotation technique shall be adopted.<br>Make sure use of evaporative cooling towels during work.<br>Lone working is not allowed.<br>Activity shall be suspended during rain or dust storm. | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 2   | Mobilization/Inspection of Heavy Equipment at Site | Non-compliance with statutory requirements (3rd Party Inspection)<br>Incompetent | Physical Injuries                                                                                                 | All equipment must be inspected and certified by a 3rd party.<br>Daily equipment inspection must be carried out by the operator<br>The equipment to be used shall be in good condition<br>The equipment must be suitable to perform the task<br>All operators must be trained in conducting inspection of equipment using the checklist                                                                                                                                  | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

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| 2A  |                                                  | Operator Inadequate inspection and maintenance of equipment                                    | Injuries/ Property losses                                                                                   | All equipment must be inspected regularly using checklists by the operator.<br>All drivers and operators shall undergo Defensive Driving Safety Training.<br>Daily tool box talk must be conducted before any work commences.<br>Equipment Operator shall be oriented on how to use and fill out the checklist properly.<br>Equipment inspection checklist shall be provided and conducted in a daily basis.<br>Supervising Engineer and Safety Officer shall ensure that inspection was carried out thoroughly. | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 3A  | Excavation                                       | Injuries to workers due to fall of material. Property losses due to improper use of machinery. | Injuries/ Property Damaged                                                                                  | Restrict use of machinery to competent person only to avoid any property damage.<br>Movement of workers within the radius of excavator must be stopped.<br>For safe use and maneuverer of machinery signaller must be provided.<br>Operator of the excavator must be Trained, competent and authorized for operating the required equipment.                                                                                                                                                                     | 3                                    | 5 | 15 |                                                        | 2                          | 2 | 4  |                                           |
| 3B  |                                                  | Electric shocks to the machine operator/worker, property damaged.                              |                                                                                                             | Layout plan of underground services must be obtained from the client.<br>Workers must be briefed about the location of underground services.<br>Excavation must be planned by a competent person to avoid any accidental contact.                                                                                                                                                                                                                                                                                | 3                                    | 5 | 15 |                                                        | 2                          | 2 | 4  |                                           |
| 3C  |                                                  | Collapse of excavation                                                                         |                                                                                                             | Inspection of excavation before the start of work by a competent person.<br>Trench protection techniques i.e., sloping, benching and shielding be used to avoid collapse.<br>Lighting arrangements be made.                                                                                                                                                                                                                                                                                                      | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 3D  |                                                  | Dispersion of dust Workers working inside the trench                                           | High temperature during day time, oxygen deficiency, humidity,                                              | Water sprinkling at regular intervals to settle down dust particles.<br>Provision of PPEs i.e. face mask to reduce inhalation of dust by the workers.<br>Tool box talk must be conducted to inform workers about the hazard they are going to face working in trench.                                                                                                                                                                                                                                            | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |

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|     |                                                  |                                                             |                                                                                                             | No worker should be allowed to work more than 45 minutes inside the trench.                                                                                                                                                                                                                                                                                                      |                                      |   |    |                                                        |                            |   |    |                                           |
| 3E  |                                                  | Manual handling of tools and material                       | Musculoskeletal disorders, back pain, limbs injuries.                                                       | Manual lifting aids must be provided to avoid personal injuries. Work must be carried out by competent person only.                                                                                                                                                                                                                                                              | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 3F  |                                                  | Workers, Equipment and vehicles falling into the excavation | Property damaged and injuries to the operator, injuries to the workers                                      | Edge protection i.e. hard barricading highly visible from distance must be installed and for night time adequate Adequate lighting arrangements must be made for the night time visibility of trench. No vehicles will be allowed closer than 2 meters from the excavation edge. Restrict workers movement near the trench edge.                                                 | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4   | Confined Space                                   | Oxygen deficiency Enriched oxygen Giddiness                 | Personnel injury                                                                                            | Ensure permit to work system for confined space entry implemented prior to start work. Where gaseous atmosphere Gas test to be conducted prior to start work. Gas level should be continuously monitored by confined space watch person.                                                                                                                                         | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4A  |                                                  | Accumulation of Harmful gases                               |                                                                                                             | Where required proper supply of continuous air should be Where required proper supply of continuous air should be given through Air Educators (one for supply & one for Exhaust) Ensure all incoming lines are isolated or removed Prior to entry of personnel. Ensure confined space entry & exit system followed by all concerned. Ensure proper ventilation to be maintained. | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4B  |                                                  | Slip, trip & fall.                                          |                                                                                                             | No obstruction at entry & exist                                                                                                                                                                                                                                                                                                                                                  | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4C  |                                                  | Lack of Lighting                                            |                                                                                                             | Proper entry & exit to be provided & maintained all the time. Proper Lighting should be provided.                                                                                                                                                                                                                                                                                | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4D  |                                                  | High stress                                                 |                                                                                                             | Crew shall take frequent brakes                                                                                                                                                                                                                                                                                                                                                  | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 4E  |                                                  | Fumes generation during welding & applying of chemicals.    |                                                                                                             | All toxic fumes & heavy dust must be removed by mechanical ventilation. Use proper PPE's. Competent supervision to be provided for entire work. Prior entry all tools &                                                                                                                                                                                                          | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |

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|     |                                                  |                              |                                                                                                                   | equipment's to be inspected by Competent person. Separate tool box talk should be conducted prior to start of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |   |    |                                                           |                               |   |    |                                                 |
| 4F  |                                                  | Dust generation.             |                                                                                                                   | Use facemask.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 5   | Manual Handling                                  | Ergonomics hazard            | Property damaged and injuries to the workers                                                                      | Correct manual handling technique to be used.<br>Mechanical aid or partner's help shall be sought if the load to be lifted exceeds 25 KGs.<br>Bricks or cements bags stacks shall not be done above man waist height.<br>Wheel barrows and trolleys shall be used to shift material.<br>Adopt job rotation techniques.<br>Where possible manual handling will be avoided and mechanical aid will be used<br>Toolbox talk with work party<br>Close monitoring & supervision                                                                                                                                                                                                                              | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 6   | Bricks Work                                      | Slip, Trip & Falls of person | Injury to worker                                                                                                  | Adequate access should be provided for movement of people & shifting of material<br>Adequate working platform to be used when the person working below 1.8 m. Where the person wants to work more than 1.8 m standard scaffolding to be used.<br>Mason is not authorized to modify any part of the scaffolding unless he has certified by third party for alteration of scaffold.<br>Mason must use appropriate PPEs like Helmet, safety shoes, Goggles, Safety Harness, dust mask & jackets<br>Shock absorber safety Harness anchorage point should be above the worker head & height not less than 5 m from the ground.<br>Ensure anchoring point withstand force not less than 2275 kg (5000 pounds) | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 7   | Shuttering activity                              |                              |                                                                                                                   | Competent carpenter<br>Housekeeping should be done on regular basis to avoid the debris, nails and fire hazards.<br>PPEs must be provided according to Nature of job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

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|     |                                                  |                                                                                                                     |                                                                                                                   |                                                                                                                                                                                                                   | L                                       | R | RR |                                                           | L                             | R | RR |                                                 |
| 8   | Steel fixing                                     | Workers could receive hand injuries by the sharp edges of the steel bar.                                            |                                                                                                                   | Workers must be provided gloves to avoid any injury.<br>Tool box talk must be conducted to inform workers about safe handling of steel bar.                                                                       | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 9   | Concrete Work                                    | Struck by wheel of mixing machine.<br>Breaking of wheel.<br>Poor electrical connection.                             |                                                                                                                   | All the mixing materials shall be used with wheel guard.<br>Check expire date of mixing wheel and use approved product of wheel.                                                                                  | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 10  | Concrete Pouring                                 | Direct contact with mixture<br>Concrete mixture can damage the skin                                                 |                                                                                                                   | Use gloves while pouring concrete manually.                                                                                                                                                                       | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 11  | Plaster Work                                     | Fall hazard from scaffolding while plastering<br>Mixture can be in direct contact with eyes.                        | Skin damage and blisters may be formed due to contact with mixture                                                | Use scaffolding according to safety protocols.<br>Use gloves and goggles while plastering the wall.<br>Use scaffolding as per form work protocols for concrete pouring.<br>Use appropriate PPE-glasses and gloves | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 12  | Drilling                                         | Activity may cause Injury (especially hand and feet) due to exposure to rotating /sharp parts of drilling equipment |                                                                                                                   | Proper coupling and guarding of drilling tools/machines<br>Provision of adequate PPE's as and when required during drilling into any material,                                                                    | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 13  | Back filling                                     | Dust generation                                                                                                     |                                                                                                                   | To ensure use of PPE's during the backfilling.<br>sprinkle the water where required                                                                                                                               | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 13A |                                                  | Noise                                                                                                               |                                                                                                                   | Checked to mechanic if need any kind of rectification fix it in other hand use earmuff or earplug acceding to the Frequency of nose                                                                               | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 13B |                                                  | Careless Operation of the Compactor                                                                                 |                                                                                                                   | Only experienced & Trained personnel to be engaged for operating of roller compactor.<br>Adequate supervision to be provided for all<br>Adequate lighting to be provided for all                                  | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 13C |                                                  | Spillage of fuel                                                                                                    |                                                                                                                   | No oil & fuel leaks in Roller & compactor & it should be inspected prior to start.                                                                                                                                | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 13D |                                                  | Vibration                                                                                                           | Damage of muscles & Sperms                                                                                        | If compactor Generate much vibration don't use it.<br>Make rotation of operators, a worker should not operate compactor more than 8 hours in a day & not more than 2 weak in a month                              | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 14  | Work at height                                   | Fall equipment's, Fall of person<br>Property damage Personnel injury Fire                                           |                                                                                                                   | Personnel fitness<br>Working at height trainings                                                                                                                                                                  | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

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|     |                                                  | Flying object                                                                      |                                                                                                             | Hazarded awareness sessions with contractor staff<br>Securing of tools when working at height<br>Proper inspection of scaffolding by contractor authorizes personal<br>Inspection tags on certified scaffolding tag<br>Use complete PPEs<br>Never walk below suspended load<br>Exit and entry should be clear<br>Close supervision<br>Working at height awareness session should be conducted by HSE staff                   |                                      |   |    |                                                        |                            |   |    |                                           |
| 15  | Hot Work (Welding, Cutting & Grinding)           | Splatters during the Grinding, brazing, soldering, cutting and welding operations. |                                                                                                             | Hot works permit system to be implemented effectively. Adequate & Appropriate Fire Extinguisher to be provided. Fire warden/Marshals should be available at site.<br>Personals to be aware of fire hazards and welder must use appropriate PPE's.<br>Fire blanket to be provided during the hot works.<br>All Flammable materials to be kept away from the hot work operations prior to start of work.                       | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 15A |                                                  | Throwing hot welding rods & Metals.                                                |                                                                                                             | All hot waste rods & metals should be stored in the designated area.                                                                                                                                                                                                                                                                                                                                                         | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 16  | Cylinder storage & handling                      | Fire & Explosion                                                                   |                                                                                                             | Store all cylinders in shaded area.<br>No smoking signs to be posted.<br>Hot works should not carry out near to the cylinder storage area. Don't hit acetylene cylinders.<br>Ensure valve protection cap available in the cylinder during storage & shifting                                                                                                                                                                 | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |
| 17  | Erection/ dismantling of scaffolding             | Slip, trip & Fall of Persons, tools & materials from height.                       |                                                                                                             | Client approved third party certified peoples only to be allowed to erect & Inspect the scaffolding. Good materials to be used wooden boards, clamps, etc.].<br>Platforms should always keep clear<br>Hand rails height should be - 95 to 115 cm, Mid rails – 47 cm & Toe boards - 15 cm.<br>Secure tools properly to avoid falling.<br>Scaffolding works should be ceased in wet conditions during the raining & Heavy fog. | 3                                    | 3 | 9  |                                                        | 2                          | 2 | 4  |                                           |

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|     |                                                  |                                                                                                                                                  |                                                                                                                   | Safety harness to be used while erecting & dismantling the scaffolding. All ladders should be tied properly & minimum 1 m height to be extended From the working platform. Ladder slope should be 4 m (vertical) &1m(Horizontal) to be maintained                                                                             |                                         |   |    |                                                           |                               |   |    |                                                 |
| 18  | heavy / light vehicles at site                   | Collisions of Machinery                                                                                                                          | Collision, blockage of access, parking close to the well head                                                     | Keep safe distance between moving machinery. Valid License holder & experienced driver. Follow speed limit. Use of seat belt.                                                                                                                                                                                                 | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 18A |                                                  | Improper Parking                                                                                                                                 |                                                                                                                   | All vehicles should be parked in designated parking area.                                                                                                                                                                                                                                                                     | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 18B |                                                  | Break down of machinery on the way                                                                                                               | Delay, Personnel injury, property damage.                                                                         | All machinery should be checked by competent person before travelling.                                                                                                                                                                                                                                                        | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 18C |                                                  | Heavy lifting<br>Improper placement of crane<br>Damage of sling overturn or collapse of crane<br>Load drop<br>Working beyond SWL                 |                                                                                                                   | Rigging study of heavy loads. Pre lift checklist<br>Valid third-party certificates of crane and operator<br>Competent rigging supervisor.<br>No person will be allowed under suspended load. Proper use of tag lines to control the load.<br>MOL permit to work should be followed and JSA should be prepared for heavy lift. | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 18D |                                                  | Fall of the object, trailer oil leakages, exhaust of engines, struck by, trailer/ wheel borrow tripping, chain pulley failure, hydraulic failure |                                                                                                                   | Training of the workforce, Signage's and posting                                                                                                                                                                                                                                                                              | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 18E |                                                  | Personal injury<br>Property damage                                                                                                               |                                                                                                                   | Access should be prepared<br>Heavy equipment to be kept at agreed safe distance from trench<br>Skilled manpower<br>No excavation during rain                                                                                                                                                                                  | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 19  | Electrical insulations & use                     | Spark produced due to electrical connections overloading, loose wire connection, damaged wire/cable sheath/connectors, any malfunction           |                                                                                                                   | Industrial electrical sockets & cables to be used for all<br>Electrical connections & installations. Proper earthing to be done for all electrical Generators, DB's etc.<br>ELCB to be provided for all Main DB's & Sub - DB's. Only competent electrician to be engaged for all electrical Installation.                     | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

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|     |                                                            |                                                                                               |                                                                                                                   | Periodical inspection to be done for all Electrical portable equipment's, cables, connectors and fittings by a competent person.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |   |    |                                                           |                               |   |    |                                                 |
| 20  | During handling of chemicals, paints & protective coatings | Chronic/ acute effects on health<br>Skin irritation eye irritation<br>chemical spillages Fire | Personnel Injury<br>Property damage<br>Environmental impact                                                       | <p>Tool box talk shall be carried out prior to application of coating work &amp; Ensure everyone aware of emergency. Ensure MSDS of all chemicals should be available at site and explain to work force. Use proper PPE's as per MSDS requirement of that chemical like rubber gloves, canister mask etc.</p> <p>Plastic covers to be used close to the wall &amp; to avoid the spillages of protective coatings on land surface.</p> <p>Properly stack the used paint/chemicals canes and dispose of as per HSE Waste Management Procedure. In case of personnel injury medical treatment to be given.</p> <p>Avoid to direct contact with hand and body &amp; where required use disposable coveralls</p> <p>In case of spillage wash with plenty of water. Certified first aider should be present during working Hours. Adequate Fire fighting equipment's &amp; Fire marshals available at site. Bund wall/ spill tray shall be constructed to avoid chemical spillages. Incompatible chemicals should not store altogether. Drinking water bottles should not use for storage of chemicals. Ensure proper label available at all containers. Ensure minimum chemicals are stored at site.</p> <p>Storage should be properly done as per chemicals nature &amp; Based on manufacturers instruction.</p> | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 21  | Waste Management                                           | Unwanted material scattered near to the job                                                   |                                                                                                                   | <p>Working hours to be followed as per the Pak Labour laws</p> <p>Storage of material in proper place &amp; not to obstruct anyone.</p> <p>All waste materials must be cleared from the site as per waste management procedure of client/ company</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

## RISK ASSESSMENT

Document No: RAMSPROZONE-MASTER-RA -001

Date of issue: XX-XX-2025

Revision:00

MASTER

| Ref | Workplace/Activity/ Process/ Equipment/Materials | Hazards                                                          | Risks Issue (Possible incident)<br>[What can go wrong]<br>(Accident/ill health to persons, fire or property loss) | Existing Controls                                                                                                                                                                                                                                                                                                                                            | Base Risk Ranking<br>(Without Controls) |   |    | Improved Existing Controls /<br>Implementing New Controls | Risk Reduction<br>Action Plan |   |    | Follow up by<br>Whom (name) &<br>By When (date) |
|-----|--------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---|----|-----------------------------------------------------------|-------------------------------|---|----|-------------------------------------------------|
|     |                                                  |                                                                  |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              | L                                       | R | RR |                                                           | L                             | R | RR |                                                 |
| 21A |                                                  | Improper excess soil management                                  |                                                                                                                   | All waste materials must be cleared from the site as per waste management procedure of client/ company<br>All activities shall be stopped in case of emergency and made safe.                                                                                                                                                                                | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 22  | Emergency Evacuation                             | Fire, serious illness, Security incident Gas leakages            |                                                                                                                   | All permits will be cancelled in case of emergency<br>Contractor site supervisor should ensure the proper evacuation<br>Contractor staff must be cleared about Company ERP                                                                                                                                                                                   | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 23  | Crane-lifting operations                         | Overloading of the material                                      | Damage to crane and injuries to workers in case of accident.                                                      | Restrict the use of crane to a competent operator only.<br>Lifting plan must be made by a competent person prior to the start of lifting operation<br>A competent supervisor must observe closely the whole operation to ensure safe execution of the work.<br>A competent signaller must be provided for safe maneuverer of crane                           | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 23A |                                                  | Movement of workers underneath the crane boom radius             | High risk of injuries even death in case of failure of crane hydraulics system.                                   | Movement of workers underneath the crane boom radius<br>Area around the radius of boom of the crane must be barricaded to restrict workers movement.                                                                                                                                                                                                         | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |
| 24  | House Keeping                                    | Scattered raw material, tools and construction material at site. | Scattered raw material, tools and construction material at site.                                                  | Attention should be paid to the maintenance of adequate housekeeping before the start of work at the site.<br>Construction material must be stacked in a proper order.<br>Access way for workers and vehicle must be kept clear and no material should be stored there.<br>Cleanliness of the site must be maintained to avoid risk of bad health of workers | 3                                       | 3 | 9  |                                                           | 2                             | 2 | 4  |                                                 |

**Note: This Risk Assessment must be reviewed if the execution of a new job or any incident occurred on the work site and also after completing 12 months.**

OSH Risk Matrix

| Probability                 | Consequence       |                                                                                                                             |              |           |                  |
|-----------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------|-----------|------------------|
|                             | Insignificant (1) | Minor (2)                                                                                                                   | Moderate (3) | Major (4) | Catastrophic (5) |
| Rare (1)                    | 1                 | 2                                                                                                                           | 3            | 4         | 5                |
| Possible (2)                | 2                 | 4                                                                                                                           | 6            | 8         | 10               |
| Likely (3)                  | 3                 | 6                                                                                                                           | 9            | 12        | 15               |
| Often (4)                   | 4                 | 8                                                                                                                           | 12           | 16        | 20               |
| Frequent/Almost Certain (5) | 5                 | 10                                                                                                                          | 15           | 20        | 25               |
| 15 - 25                     | Extreme Risk      | Activity or Industry Should Not Proceed in Current Form                                                                     |              |           |                  |
| 8 - 12                      | High Risk         | Activity or Industry should be modified to include remedial planning and action and be subject to a detailed OSH Assessment |              |           |                  |
| 4 - 6                       | Moderate Risk     | Activity or industry can operate subject to management & Modification                                                       |              |           |                  |
| 1 - 3                       | Low Risk          | No Action Required Unless Escalation of Risk is Possible                                                                    |              |           |                  |

| RISK ASSESSMENT TEAM |             |             |
|----------------------|-------------|-------------|
| Prepared By          | Reviewed By | Approved By |
| Name:                | Name:       | Name:       |
| Date:                | Date:       | Date:       |