

Risk Assessment Report

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Sections

Activity: Civil

Risk Assessment No	NA
Location	NA
Date	NA

Risk rating matrix = Likelihood * Severity

Image

Sub-Activity: Mobilization of Manpower at Project

Hazards

Hazards	<ol style="list-style-type: none"> 1.Unskilled Worker. 2.Lack of Knowledge about site hazards that lead to human Injury and property loss. 3. Language barrier, un-fit worker. 4.Lack of awareness in case of emergency/If unaware about the emergency exits, assembly point, by chance any emergency occur may lead to injury while movement. (stampede) . 5.Personal injury/Property Damage/Confusion Body injury, Un conscious/ Fatigue.
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Likelihood	3
Severity	2
Risk = likelihood * Severity	6
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1.Gate pass Issued after safety induction training only. 2.Only Trained Person Should be Deployed for work. 3.Training Should be conducted before Start the activity. 4.Person will not move to the unknown area. /Unauthorised Entry should be prohibited. 5.Person should respect & follow on site signages, rules and regulation. 6.Use language which most of worker easily known. (Local language) 7.Take feedback from worker about what they have understood by the means of training. 8.Full time e supervision is mandatory. 9.Conduct physical fitness test of worker before his employment from authorised Practitioner. (Medical fitness is mandatory) 10.Personnel shall move with area known site representative only. 11.Emergency assembly point should be display at site & Awareness to all personnel about assembly point should be discussed in TBT every day.
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Likelihood	1
Severity	2
Residual Risk = likelihood * Severity	2
Control measures implemented by	Padams

Risk level	NA
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Sub-Activity: Human Behaviour activity

Hazard

Hazards	<ol style="list-style-type: none"> 1. Overconfidence 2. Improper background 3. Family History 4. Mental Illness. 5. Aggressive 6. Accident 7. Worker dispute
Likelihood	3
Severity	3
Risk = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Take care of each other will develop 2. Medical fitness certificate 3. Awareness and response 4. Proper supervision will be ensured at site. 5. Use of appropriate PPE's like (Rubber hand gloves, safety shoes, reflective jacket. Safety helmet.
Likelihood	1
Severity	2
Residual Risk = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Loading and Un loading of Materials by Mechanical Equipment etc.

Hazards

Hazards	<ol style="list-style-type: none"> 1. Unsecured load 2. Persons getting hit. 3. Fall of material due to unsecured load, stoppers, counterweight, etc. 4. Obstructed access. 5. Fall of persons while climbing on to the load for unloading. 6. Sharp edges 7. Poor visibility / slippery condition 8. Overloading 9. Uneven and non-compacted ground. 10. Inadequate illumination. 11. Miscommunication.
Likelihood	3
Severity	2
Residual Risk = likelihood * Severity	6
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Trained workforce (Loading and unloading) workforce to be deployed. 2. Vehicle / equipment fitness, maintenance log, reverse horn, alarm, rear view mirror (RVM), both outer rear-view mirror (ORVM), two-wheel choke, seat belt, indicators, wipers, should be in proper conditions. 4. Training for the workers provided about safely material handling. 5. Maintain proper communication between the workers during the unloading work. 6. Safety Helmet, Safety Shoes, reflective Jacket to be used by the operators, banksman, riggers, signal man in site. 7. While shifting the material to the storage area to be barricaded. 8. Material to be anchored for prevention of fall, protrusion of material to be avoided, overloading of the material to be avoided. 9. Step for climbing to reach to the vehicle provided during the material unloading. 10. Material stacking height not to be exceedingly more than 1.5 meter 11. Provide a MS rack to unload the material if required. 12. Lighting to be provided with clear visibility for lifting of material. 13. Toolbox talks to be given by the supervisor to operators, banksman, signal man, riggers daily for the precautions to be taken in lifting activity. 14. Job specific PPE like (hand gloves, safety helmet, safety shoes)
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Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Scaffold Erection Working on scaffolding at height / Scaffold Dismantling.

Hazards

Hazards	<ol style="list-style-type: none"> 1. Fall hazard. 2. Collapse of scaffold. 3. Fall of material. 4 Hit injury
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Scaffold to be erect on the compacted soil. 2. Only aluminium scaffold material shall be use. 3. Use appropriate hand tools for Di shuttering of scaffolds. 4. Before installation of scaffolding soil condition & compaction must be checked. 5. Skilled persons are only allowed for Scaffolding erection. 6. Ensure continuous supervision. 7. Scaffolds inspection shall be done as per the check list. 8. Scaffolding shall not be use without approval. 9. Display scaffold inspection tag. 10. Obtain height work permit. 11. Only experienced and skilled person can work on height. 12. Use of only inspected scaffolds. 13. Ensure continuous supervision. 14. Medical fit person are only allow for work at height. 15. Working king area shall be barricades. 16. Weather condition. 17. Conduct TBT before start of height work. 18. Ensure continuous supervision. 19. PPE's like Safety helmet with chin strap, Safety gloves, safety shoes, High-visibility jackets.
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Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2

Control measures implemented by	Padams
Risk level	NA

Sub-Activity: Water proofing work (bitumen, adhesives, sealants, synthetic chemicals etc.)

Hazards

Hazards	<ol style="list-style-type: none"> 1. Absorption/ingestion 2. Deployment of untrained workers 3. Fall of person, Slips and trips due to water accumulation 4. Unauthorized entry 5. Slippery floor 6. Inhalation/Skin absorption/ingestion of toxic substance, fumes 7. Burn from hot bitumen 8. Fire and explosion (part of hot work) 9. Vector breeding in stagnant water 10. Hazards pertaining to confined work (illumination, ventilation, space constraint) 11. Hazard arising from heating of substances (e.g. gas cylinder & hot work) 12. Obstructions / limitations in access 13. Electrocution due to cable routing on wet surface, equipment / fixtures on wet surface.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Scaffold to be erect on the compacted soil. 2. Only aluminium scaffold material shall be use. 3. Use appropriate hand tools for Di shuttering of scaffolds. 4. Before installation of scaffolding soil condition & compaction must be checked. 5. Skilled persons are only allowed for Scaffolding erection. 6. Ensure continuous supervision. 7. Scaffolds inspection shall be done as per the check list. 8. Scaffolding shall not be use without approval. 9. Display scaffold inspection tag. 10. Obtain height work permit. 11. Only experienced and skilled person can work on height. 12. Use of only inspected scaffolds. 13. Ensure continuous supervision. 14. Medical fit person are only allow for work at height. 15. Working king area shall be barricades. 16. Weather condition. 17. Conduct TBT before start of height work. 18. ensure continuous supervision. 19. PPE's - Safety helmet with chin strap, Safety gloves, safety shoes, High-visibility jackets.
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Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk level	NA

Sub-Activity: Cutting Of PVC or CPVC pipes and joining as per requirement (by hacksaw & solven

Hazards

Hazards	<ol style="list-style-type: none"> 1. Sharp tools 2. Slip & trip due to unwanted materials on floor, slippery surface, obstructions in access, etc. 3. Ergonomics 4. Inhalation / Absorption of chemical / Hazardous dust 5. Fall of material & persons 6. Space constraints 7. Caught in between 8. Defective / damaged working platform, scaffold, ladder, etc.
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Likelihood	3
Severity	2
Risk Rating = likelihood * Severity	6
Risk Level	NA

Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Cutting wheel shall be protected with wheel guard. 2. Machine routed through 30 mA ELCB panel. 3. Trained, experienced & medically fit workforce to be deployed. 4. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (weekly, fortnightly, monthly) 5. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 6. Storage area to be barricaded and warning signages to be displayed at the location. 7. Safety helmet, safety shoes, hand gloves, reflective jacket, goggles, nose mask to be used. 8. Lighting to be provided for clear visibility. 9. Hot work not to be carried out near the work location, storage area. 10. Fire point / extinguisher to be placed at the work location and accessible. 11. Training on MSDS to be conducted for the persons involved in the activity. 12. Fresh air movement to be provided. 13. Appropriate PPE's (Helmet, jacket, hand gloves, safety shoes, goggles, apron) Provide to workman.
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Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Masonry work in internal floors (block / brick work & plastering)

Hazards

Hazards	<ol style="list-style-type: none"> 1. Ergonomics. 2. Deployment of Untrained persons. 3. Poor illumination. 4. Sharp tools, edges. 5. Use of damaged / defective scaffolds, tools, handmade tools. 6. Fall of Men & Materials. 7. Slips & trips due to unwanted material on floor. 8. Absorption / ingestion / inhalation of cement dust / other chemicals. 9. Collapse of block work. 10. Collapse of working platform due to overload, uneven surface, makeshift arrangement, etc. 11. Improper Access / Egress 12. Flying fragments. 13. Entanglement, struck with overhead services. 14. Electrocutation.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Trained, experienced & medically fit workforce to be deployed. 2. Trained, experienced & authorized operator to be deployed for the equipment. 3. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (weekly, fortnightly, monthly) 4. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 5. Blocks not to be stacked more than 1.5m height. 6. Only limited blocks (max 2nos) to be placed on the mobile scaffold platform. 7. All hand tools, power tools to be inspected and damaged / defective tools to be rectified / removed. 8. Barricade the area beneath the working location / floor edge, cover the open shafts, provide fall prevention arrangement on other side. 9. Warning signage to be displayed. 10. Wheelbarrow to be used to shift the materials & it is not to be overloaded. 11. Materials to be 1.5m away from the floor edge. 12. Access / egress to be provided free from obstructions, slippery surfaces. 13. MSDS to be displayed and training for the same to be provided to all concerned person. 14. Mobile scaffold to be equipped with full boarded working platform, guard rails, mid rail, toe board, access & egress, wheel brakes, tested and certified scaffold material to be used. Inspection tags to be displayed on the scaffolds for identification of 'safe to use' / 'unsafe to use'. 15. Locking of wheels to be done before using the scaffold, Scaffold not to be dragged/pulled while workers are standing on the platform. 16. Safety shoes, helmet, jacket, face Shield / goggles, safety harness as applicable and nose mask. 17. Lighting to be provided for clear visibility. 18. Electric cables to be routed overhead, free from naked joints and all portable tools to be routed through 30mA ELCB / RCCB & MCB. 19. PPE's (Safety helmet, fire blanket, goggle, Hand gloves safety shoes, reflective jacket).
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Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Civil work, Demolition, Chipping (by equipment, power tools, hand tools, etc.)

Hazards

Hazards	<ol style="list-style-type: none"> 1. Poor Visibility. 2. Hit by objects / obstructions. 3. Fall of person. 4. Fall of material, collapse of structure. 5. Noise & vibration. 6. Underground & overhead utilities (electrical, plumbing, pressure lines, etc.). 7. Awkward Postures. 8. Dust. 9. Contact with sharp edges. 10. Caught in between. 11. Flying fragments / pieces. 12. Electrocution. 13. Deployment of untrained workforce. 14. Compressed air. 15. Usage of defective / damaged equipment, tools, etc.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Cutting wheel shall be protected with wheel guard. 2. All electrical power tools & equipment to be routed through 30mA ELCB <p>Workforce, Training & Awareness:</p> <ol style="list-style-type: none"> 3. Trained and experienced workforce to be deployed. 4. Trained, experienced & authorized operator to be deployed for the equipment. 5. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (weekly, fortnightly, monthly) 6. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 7. Job rotation to be done for the persons operating jack hammer / compressor <p>Equipment's, Tools & Tackles</p> <ol style="list-style-type: none"> 8. All statutory documents of the equipment to be available and with valid dates. 9. Electrical cables to be routed overhead. 10. Equipment's, power tools, hand tools to be inspected and any defective / damaged equipment, tools to be rectified / discarded. 11. Access & egress free from obstructions, slippery surfaces, etc. 12. Working platform to be fully boarded / 600 mm width & secured, mid rails, handrails and toe board to be provided with access & egress. 13. If the activity is carried out at external face / at height - activities in the line of fire not to be carried out, area below to be barricaded, caution signages to be displayed, a watcher to be deployed to restrict personnel movement, shade net to be provided and sprinkled with water to prevent dust generation and arrest flying fragments. 14. Lighting to be provided for clear visibility. 15. Water sprinkling to be done to prevent generation of dust, 16. All underground and overhead utilities to be disconnected and LOTO procedure to be followed. 17. Hot work permit to be taken in case of gas cutting activity. 18. Debris to be disposed through approved vendor 19. Safety Helmet, Safety Shoes, reflective vest / jacket, goggles, earmuff, ear plugs, dust mask, hand gloves to be used 20. Safety harness to be used and to be anchored with rigid support while working at height. <p>Emergency Preparedness</p> <ol style="list-style-type: none"> 21. Emergency exit ways, assembly point to be identified and explained. 22. Use of PPE's Cut resistance hand gloves, safety shoes, reflective jacket, safety helmet, nose mask, safety goggle. Full body safety harness.
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Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Marking works at ceiling and installation of Baffle ceiling.

Hazards

Hazards	<ol style="list-style-type: none"> 1. Unsafe scaffold in use. 2. Fall of men and materials 3. Slips and Trips 4. Ergonomics 5. Poor Housekeeping. 6. Deployment of Untrained persons. 7. Dust Hazard. 8. Major injury / health effect / illness (fractures, breaking of organs, injury to body parts) 9. Minor injury / health effect / illness. 10. First Aid Injury / Slight health effect 11. Property Damage.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measure	<ol style="list-style-type: none"> 1. Trained, experienced & medically fit workforce to be deployed. 2. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (monthly once). 3. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 4. All hand tools to be inspected and damaged / defective tools to be rectified / removed. 5. Mobile scaffold to be equipped with full boarded working platform, guard rails, mid rail, toe board, access & egress, wheel brakes, tested and certified scaffold material to be used. Inspection tags to be displayed on the scaffolds for identification of 'safe to use' / 'unsafe to use'. 6. Locking of wheels to be done before using the scaffold, Scaffold not to be dragged/pulled while workers are standing on the platform. 7. A standby person to always be deployed for handling of mobile scaffold and assisting the people working on the scaffold. 8. PPE's - Safety helmet, safety shoes, hand gloves, reflective jacket, nose mask to be used.
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Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Waste Management - segregation, storage, handling & disposal

Hazards

Hazard	<ol style="list-style-type: none"> 1. Inhalation of dust, toxic gases. 2. Contact with sharp edges. 3. Contamination of soil. 4. Fire. 5. Fall of person due to slip, trip, obstructions in access, slippery surface, etc. 6. Fall of materials. 7. Space constraints. 8. Poor visibility. 9. Poor ventilation. 10. Deployment of untrained workforce, agency. 11. Deviation from the approved procedure specified by the manufacturer. 12. Usage of damaged / defective equipment, tools & tackles. 13. Lifting excessive weights. 14. Awkward postures.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Trained, experienced workforce to be deployed. 2. Trained, experienced & authorized agency to be deployed for the disposal of hazardous waste. 3. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (weekly, fortnightly, monthly) 4. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 5. Water sprinkling to be done, equipment / vehicle carrying the material to be covered 6. Cut resistance hand gloves, goggles, nose mask, helmet, safety shoes / gum boots to be used. 7. Storage to be done on a concrete surface with bund wall and secondary containment to prevent spillage of chemical, segregation of waste to be done as per the size, material type, state of materials, etc. 8. Fire hazardous materials to be stored separately with enclosures, fire points / extinguishers to be placed in the vicinity and accessible. 9. Access to be free from obstructions, slippery surfaces. 10. Over loading of materials to be avoided 11. Removal & disposal of unwanted material to be done as per the project defined calendar (preferred on daily basis) 12. Lighting to be provided for clear visibility 13. Fresh air circulation to be done by using exhaust fans 14. Trained, experienced workforce to be deployed, approved agency to be deployed for disposal of hazardous waste. 15. Hazardous waste to be stored, handled & disposed as per the MSDS. 16. All equipment's, tools & tackles to be inspected and damaged / defective equipment, tools to be rectified / discarded. 17. Excessive weight, large size materials not to be handled by a single person. 18. PPE's - Safety helmet with chin strap ,Knee pads,Cut level A5–A7 gloves,safety shoes,High-visibility jackets.
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Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	NA
Risk Level	NA

Sub-Activity: Marking the location for Drain Plumbing pipe on wall and Ceiling.

Hazards

Hazards	<ol style="list-style-type: none"> 1.Fall Hazard. 2.Slip / Trip Hazard. 3.Dust inhalation.
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Likelihood	2
Severity	3
Risk Rating = likelihood * Severity	6
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measure	<ol style="list-style-type: none"> 1. Before start work TBT will be conducted by the supervisor. 2. Only skilled & competent workers should allowed for specific job. 3. Area should be barricaded. 4. Scaffolding should not be overloaded. 5. Scaffolding should have proper railing, cross bracing, toe board & proper wheel lock & safety tagging to be done. 6. Good Ventilation should be provided. 7. Training should be Provided. 8. Job specific PPEs like Nose Mask, hand gloves, safety helmet, safety shoes etc. should be provided. 9. 30mA ELCB should be provide on Electrical distribution board. 10. Only double insulated cables should be used for electrical connections. 11. Only trained and competent person should be assigned for the task. 12. Only good condition inspected tools & equipment should be used. 13. Cable should be routed above head level. 14. PPE's - Safety helmet with chin strap ,Knee pads,Cut level A5–A7 gloves,safety shoes,High-visibility jackets.
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Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Installation of Drain Plumbing clamp (Drilling Activity)

Hazards

Hazards	1. Electrocutation. 2. Defective tools. 3. Fall of person / 4. fall of tools. 5. Dust inhalation.
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Likelihood	3
Severity	3
Risk Rating = Likelihood * Severity	9
Risk Level	NA

Control Measures

Control Measures	1. 30mA ELCB should be provide on Electrical distribution board. 2. Only double insulated cables should be used for electrical connections. 3. Only trained and competent person should be assigned for the task. 4. Only good condition inspected tools & equipment should be used. 5. cable should be routed above head level. 6. Periodic maintenance of power tools should be done. 7. Trained and competent person should be assigned for the task. 8. Good Ventilation should be provided. 9. Training should be Provided. 10. Job specific PPE's like Nose Mask, hand gloves, safety helmet, safety shoes etc. should be provided.
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Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Material stacking on the work area tube light, cable, hand tools, power tools & DB for site office

Hazards

Hazards	1. Improper stacking of materials fall of materials. 2. Sharp edge.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1) Material should not be stacked over 1.5-meter height from the ground. 2) material should be stacked / stored at designated location. 3) Area should be barricaded. 4) Only trained and competent person should be assigned for the task. 5) Sharp edge should be protected with cushioning materials. 6) Job specific PPE's like cut resistance hand gloves, safety helmet, safety shoes, etc. should be provided.
Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Control measures implemented by	Padams
Risk Level	NA

Sub-Activity: Installation DB 1) drilling, 2) Cutting

Hazards

Hazards	<ol style="list-style-type: none"> 1. Electrocutation 2. Fall of person / fall of tools. 3. Flying particles. 4. Dust & noise/ Sharp edges. 5. Defective tools.
Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	NA
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1) Before start work TBT will be conducted by the supervisor. 2) Only skilled & competent workers should be allowed for specific job. 3) Area should be barricaded. 4) Good condition scaffold should be used. 5) Work permit system should be followed. 7) Job specific PPE's like safety helmet, safety shoes, nose mask, eye protection, ear plug, etc. should be used. 8) Wind screen should be used to prevent particles falling on the pathway. 9) Only good condition inspected tools should be used. 10) Periodic maintenance of power tools should be done. 11) Sharp edge should be protected with cushioning materials. 12) Job specific PPE's like cut resistance hand gloves, safety helmet, safety shoes, etc. should be provided. 15) Trained and competent person should be assigned for the task.
Control measures implemented by	Padams
Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: Tube light fixing 1) drilling 2) Cutting

Hazards

Hazards	<ol style="list-style-type: none"> 1. Fall of person / fall of tools. 2. Use of Incomplete / Damage Scaffold. 3. Electrocutation. 4. Flying particles. 5. Dust & noise. 6. Sharp edges. 7. Defective tools. 8. Fire Hazard.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1) Before start work TBT will be conducted by the supervisor. 2) Only skilled & competent workers should be allowed for specific job. 3) Only mobile scaffolding to be provided with all scaffolding requirements with safety tagging 4) Area should be barricaded. 5) Good condition scaffold should be used. 6) Work permit system should be followed. 7) Scaffold should be erected by competent person. 8) Trained and competent person should be assigned for the task. 9) Scaffold should be erected on even floor. 10) 30mA ELCB should be provided on Electrical distribution board. 11) Only double insulated cables should be used for electrical connections. 12. Use IP 44 rating DB's. 13) Job specific PPE's like safety helmet, safety shoes, nose mask, eye protection, ear plug, etc. should be used. 14) Wind screen should be used to prevent particles falling on the pathway. 15) Pre - job inspection should be done. 16) Combustible materials should be removed from the location and good housekeeping to be maintained. 17) Firefighting equipment should be kept at handy position.
Control measures implemented by	Padams
Severity	2
Likelihood	1
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: Installation of sprinklers & flexible hose. (Use Scaffolding)

Hazards

Hazards	<ol style="list-style-type: none"> 1. Fall Hazard. 2. Slip, Trip. 3. Fall of material. 4. Fall of person.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Only skilled/Competent worker should be assigned. 2. Proper tools and tackle should be used. 3. Area should be clean and clear of obstacles. 4. Only good condition work platform should be provided.
Control measures implemented by	Padams
Severity	2
Likelihood	1
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: Painting of Pipe

Hazards

Hazards	<ol style="list-style-type: none"> 1. Fall of person. 2. Fall of material. 3. Eye injury. 4. skin diseases. 5. Ergonomics. 6. Damage to lungs. 7. Burns Injury. 8. Slip & Trip.
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Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. General work permit should be use before starting the activity and maintain its in record. 2. Toolbox meeting should be conducted before starting the activity. 3. Always check the factors from i.e.: MSDS, environment conditions which may affect the mechanical strength and protection required. 4. Ensure the provision of illumination during night work 5. Deploy skilled and experienced. manpower to perform the height work task. 6. Do not allow hot work near painting work area 7. Use proper equipment to transfer from store. 8. No smoking near mixing area. 9. Use proper working platform. 10. Working area should be barricaded to avoid exposures of other employees. 11. Scaffolding inspection tag must display. 12.. Ensure 100% supervision by concern supervisor & HSE team. 13. Ensure 1.5 meter above height work provide the safety harness. 14. Ensure the provision of proper housekeeping before and after work. 15. Use of Inspected PPES such as safety helmet, safety jacket, safety shoes, safety glasses, hand gloves, Nose mask etc. use PPES as per work requires.
Control measures implemented by	Padams
Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: HAVC Copper Piping & Cabling supporting

Hazards

Hazards	<ol style="list-style-type: none"> 1. Unsafe working platform. 2. Congested working areas. 3. Poor illumination. 4. Defective hand tools. 5. Defective Power tools.
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Risks	NA
Likelihood	3
Severity	3
Risk Rating = likelihood * Severity	9
Risk Level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1.General work permit should be use before starting the activity and maintain its in record 2.Make sure no person is coming to your path and barricade the working area 3.Scaffolding should be inspected by competent person and provision of toe guard, mid rail and top rail and provide inspection tag. 4.Make sure the wheels are locked properly in case of mobile working platform. 5.Do not move scaffold while person working at height 6.No loose material is allowed to keep at top. Hand tools shall be secured. 7.Adequate illumination of 150lux is ensured at workplace. 8.Use of inspection electrical tools and tackles and maintain its inspection records for HSE audit 9.Adequate manpower is being engaged for lifting of pipes. 10.Double insulated cables and machine are used. 11.All electrical connections taken through 30mA ELCB only 12.All temporary cable routed over head 13.Manual handling procedures followed. 14. Sufficient illumination provided. 15.Ensure 1.5 meter above height work provide the safety harness 16.Ensure to provide proper housekeeping at site area before & after. 17.Use of Inspected PPE's such as safety helmet, safety jacket, safety shoes, safety Glasses, Rubber and Cotton hand gloves, Nose mask, Earplugs etc use PPE's as per work requires.
Control measures implemented by	Padams
Likelihood	2
Severity	1
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: HAVC Duct Installation work

Hazards

Hazards	<ol style="list-style-type: none"> 1.Sharp edges. 2.Poor illumination. 3.Congested work area. 4.Unsafe working platform. 5.Noise.
Likelihood	3
Severity	4
Risk Rating = likelihood * Severity	12
Risk level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1.General work permit should be use before starting the activity and maintain its in record 2.Make sure no person is coming to your path and barricade the working area 3.Scaffolding should be inspected by competent person and provision of toe guard, mid rail and top rail and provide inspection tag. 4.Make sure the wheels are locked properly in case of mobile working platform. 5.Do not move scaffold while person working at height 6.No loose material is allowed to keep at top. Hand tools shall be secured. 7.Adequate illumination of 150lux is ensured at workplace. 8.Use of inspection electrical tools and tackles and maintain its inspection records for HSE audit 9.Adequate manpower is being engaged for lifting of pipes. 10.Double insulated cables and machine are used. 11.All electrical connections taken through 30mA ELCB only 12.All temporary cable routed over head 13.Manual handling procedures followed. 14. Sufficient illumination provided. 15.Ensure 1.5 meter above height work provide the safety harness 16.Ensure to provide proper housekeeping at site area before & after. 17.Use of Inspected PPE's such as safety helmet, safety jacket, safety shoes, safety Glasses, Rubber and Cotton hand gloves, Nose mask, Earplugs etc use PPE's as per work requires.
Control measures implemented by	Padams

Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: Glass mirror and installation of cubicles

Hazards

Hazards	1. Fall of person and material. 2. Damaged and defective power tools / hand tools. 3. Worker fall from height due to improper working platform.
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Likelihood	3
Severity	2
Risk Rating = likelihood * Severity	6
Risk level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	1. Provide training to worker of height work and Safe precaution of them for that specific activity. 2. Ensure no defects identified in working platform. 3. Working platform should not be overloaded by material. 4. Ensure no defects tools to be use. 5. Job specific PPEs should be worn.
Control measures implemented by	NA
Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: PCC

Hazards

Hazards	1. Improper stacking of materials, fall of materials. 2. Sharp edge. 3. Slip / Trip Hazard. 4. Flying particles. 5. Dust & noise/ Sharp edges. 6. Defective tools & hand tools. 7. Skin irritation & respiratory hazard & eye injury.
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Likelihood	3
Severity	2
Risk Rating = likelihood * Severity	6
Risk level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Only skill worker are engaged in manual handling work, 2. Access should be kept cleared. 3. Kinetics of manual material handling should be followed. 4. Job specific PPE's like hand gloves, shoulder pads, safety helmet, safety shoes, etc. should be worn. 5. Material should not be stacked over 1.5-meter height from the ground. 6. material should be stacked / stored at designated location. 7. Area should be barricaded. 8. Only good condition inspected tools should be used. 9. Periodic maintenance of power tools should be done. 10. Sharp edge should be protected with cosigning materials. 11. Sufficient breaks should be provided.
Control measures implemented by	Padams
Likelihood	1
Severity	2
Residual Risk Rating = likelihood * Severity	2
Risk level	NA

Sub-Activity: House Keeping on floors manual and mechanical

Hazards

Hazards	<ol style="list-style-type: none"> 1. Ergonomics. 2. Slip/Trip. 3. Exposure to dust. 4. Use of defective / damaged vacuum machine.
Likelihood	3
Severity	2
Risk Rating = likelihood * Severity	6
Risk level	NA

Impact

Impact	Health Impact
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Control Measures

Control Measures	<ol style="list-style-type: none"> 1. Floor cleaning to be done using floor manual sweeper machines. 2. Trained, experienced workforce to be deployed. 3. Trained, experienced & authorized operator to be deployed for the equipment. 4. Training on the hazards and control measures related to equipment's & related works to be conducted by the vendor (weekly, fortnightly, monthly) 5. Toolbox talks to be given by the vendor to the work force daily for the precautions to be taken in the activity. 6. All hand tools, power tools to be inspected and damaged / defective tools to be rectified / removed. 7. Stagnated water to be removed. 8. Materials to be segregated, stacked in order as per the shape and size of the materials / objects. 9. Storage area to be identified, barricaded and signage's to be provided. 10. Sprinkling of water before sweeping the floors to be done. 11. Safety helmet, safety shoes / gumboots, hand gloves, reflective jacket, goggles, nose mask to be used. <ol style="list-style-type: none"> 1) Area should be barricaded. 2) Job specific PPE's like safety helmet, safety shoes, nose mask, eye protection, ear plug, etc. should be used. 3) Wind screen should be provided. 4) Area to be barricaded.
Control measures implemented by	Padams
Likelihood	2
Severity	1
Residual Risk	2
Risk level	NA

History

Created On	Created By	Comment	Attachments
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23-Mar-2026 02:22:45 PM	Hebert Eaton	A new record was created: Site Name set to 'Avra Valley' Hira Type set to 'Civil' Hira Status set to 'Submitted'	
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