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| Company  Logo | JSA for Excavation | Project.  Rev: 00  Date: |

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| **PPE’s Required:** Safety helmet, Safety Shoes, gloves, Coverall, Goggles, Dust Mask, Jackets Ear Plug, and Full Body Safety Harness. | |
| **Date:** | **Prepared by:** |

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| **Job:** CIVIL ACTIVITIES | **JSA:** |

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| Task/Activity | Hazards | Control Measures | Responsible Person | Risk Rating |
| Mobilization of manpower to site | - Untrained workers - Lack of awareness | - Allow only trained workers. - Conduct toolbox talks and provide PPE (helmets, gloves, etc.). | Supervisor | High |
| Clearing vegetation and bushes | - Presence of insects in bushes - Sharp objects - Injuries from tools (axe/knife) | - Use mechanical tools for clearing. - Spray pesticides. - Ensure PPE and first aid availability | Supervisor | High |
| Excavation with JCB/Excavator | - Contact with underground utilities (cables/pipelines) - Vehicle collision - Toppling | - Confirm utility clearance. - Use trained operators. - Restrict unauthorized access. | Operator/Signal Person | High |
| Soil removal and trenching | - Soil collapse - Cave-ins - Flooding due to water seepage | - Use shoring, bracing, and proper drainage. - Keep machinery 2m away from edges. - Provide ladders. | Site Engineer | High |
| Hard strata breaking | - Flying debris - Equipment failure - Worker injury | Ensure JCB windows are closed. - Inspect equipment before use. - Provide barricades and signage. | Equipment Operator | Medium |
| Movement of heavy machinery | Worker collisions - Equipment malfunction | - Use designated pathways. - Enforce speed limits. - Signalmen to assist machinery movement. | Supervisor/Signal Person | Medium |
| Barricading of excavated area | - Fall of workers/materials - Inadequate signage | - Install hard barricades 1m from excavation. - Maintain material stack safely. - Add clear signage. | Supervisor | Medium |
| Wet weather/subsoil water management | - Flooding in trenches - Slippery surfaces | - Deploy dewatering pumps. - Monitor water levels regularly. - Ensure proper drainage systems. | Site Engineer | High |
| Manual handling of tools/materials | - Muscle strains - Cuts or dropped materials | - Train workers on lifting techniques. - Provide gloves and ensure tools are well-maintained. | Safety Officer | Low |
| Emergency preparedness | - Delayed response to incidents - Lack of nearby medical facility | - Maintain first aid kits. - Ensure hospital tie-ups and emergency contacts. - Conduct drills. | Site Manager/Safety Officer | High |

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| **Severity Rating:** (1) First Aid / Minor Property Damage. (2) Recordable Accident / Property Damage.  (3) Lost Time Accident / Major Property Loss. (4) Catastrophic Accident |
| What I Am Going to Do? How I Am Going to Do? What are the Risks? How do I Control Risks? Is Risks too High? |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HSE Representative Verified By Approved By** |