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

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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? |
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