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|    |  JSA for Welding, Grinding & Gas Cutting | 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 |
| Work Start-Up & Permit-to-Work (PTW | Unauthorized work, invalid permits, lack of competency, poor communication, unsafe shortcuts | Obtain and validate hot work permits, ensure tasks are conducted by trained personnel, conduct toolbox talks, monitor compliance through supervision. | PTW applicant, Supervisor, PTW holder | Medium |
| Grinding | Flying sparks, damaged discs, electrocution, eye injuries, rotating equipment hazards | Install proper guards, inspect grinding discs, check compatibility and RPM, use PPE (gloves, face shields), maintain eyewash stations. | Supervisor | High |
| Gas Cutting | Burns, fire hazards, explosion risks, tripping hazards, damaged hoses/cylinders | isolate work areas, secure cylinders, inspect hoses, use flame arrestors, provide PPE, deploy fire blankets, ensure only experienced personnel perform tasks. | Supervisor, Workers | High |
| Welding | Fire hazards, UV exposure, electrocution, damaged cables, flying sparks | Clear combustible materials, use fire blankets, wear proper PPE, inspect equipment, maintain cable protection, ensure proper earthing. | Supervisor, Workers | 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** |