

Format No: ER 5/10– F2, **JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC**

| Serial No. | Department | Equipment | Location | Job description: AMC for Water Supply and P.H Maintenance for New Infrastructure Areas in | | | |
|---|---|--|-----------------------------------|---|--|---|--------------|
| | F/M | | ITPS Colony | | | | |
| JSA performed by: | Signature | Reviewed & Approved by | Signature | Date of Issue | Date of revision | | Revision No- |
| HAZARD TEXT/TYPE (For reference to identify the Hazard type) | | | | | | | |
| PHYSICAL HAZARDS | PHYSICAL HAZARDS | PHYSICAL HAZARDS | ELECTRICAL HAZARDS | CHEMICAL/ GAS HAZARDS | EXCAVATION | OTHERS | |
| Noise | Fall from height | Force (Push/Pull) | Shock/ Electrocutation | Flammable/ Explosive substances | Collapse/Sliding | Fire | |
| Radiation | Fall (Slip/Trip) | Caught in/on or between | Static electricity | Inhalation of toxic fumes | Underground live cable damage | Heavy Wind/Rain | |
| Confined space | Fall down/below | Struck by/against | Arcflash/ blast | Ingestion/Abso rption | ERGONOMICS | Dust exposure | |
| Exposure to pressurised Steam/Air | Fall of Objects from height | Extreme weather (Hot/Cold) | BIOLOGICAL HAZARDS | Body/Eye Contact | Poor Posture | Oil spill | |
| Contact with Hot surface | Contact with moving parts | Poor illumination | Snake/Insect bite/Virus infection | Spillage | Repeatative motion | Human factor | |
| PPEs to be used | Safety Shoes, Safety Helmet, Hand Gloves, Dust Mask, safety goggles, gum boots and safety shoes, welding full face mask, boiler suit. | | | | | | |
| Tools required | Spades, shoves, pick axes, welding machine | | | | | | |
| Important Note- While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference. | | | | | | | |
| SEQUENCE OF BASIC STEPS | SAFETY, HEALTH & ENVIROMENT HAZARDS | SAFE JOB STEPS / HAZARD CONTROL MEASURES | | | | Are control Measures adequate to mitigate the risk (Yes/No) | |
| | | Elimination/ Substitution | Engineering | Administrative | PPE | | |
| Working at Height | Risk of falling from height | | Take permit before work | | Use of proper PPE, full body harness, fall protection measure, proper scaffolding, proper ladder to be used as per standard. | | |
| Plumbing work | Injury to hand, falling of tools and tackles onto the foot | | | | Use of proper PPES | | |

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|--|--|---|-------------|----------------|---|---|
| | | Elimination/ Substitution | Engineering | Administrative | PPE | |
| Cleaning of the working area. | Foreign materials and dust may strike the different parts of the body, snakes and reptiles may bite. | | | | Safety Goggles, hand gloves, dust masks, and other PPEs must be worn while executing the job. (If grass height more than 6 feet then full ankle gun boots to be worn) | |
| Final Inspection & House Keeping | Any left out material kept at site | | | | Material should be removed with proper PPEs so that no injury occurs to others. | |
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| Emergency Safety Measures (Rescue / Fire Brigade etc): | | Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666 | | | | |
| Overall Job Risk Category- (High/Medium/Low) : | High | | | | | |
| Pre Job Briefing (PJB) is applicable to all persons involved with the task. | | | | | | |
| Pre Job Briefing (PJB) Acknowledgement: I undertake that the JSA is communicated to me effectively | | | | | | |
| Name | Agency's name | Signature | | | | |
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