

| Job Safety Analysis (JSA) | | | | | | |
|---|-----------------------------|---|---------------------------------------|---|-------------------------------|-----------------|
| Format No: ER 5/10- F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC | | | | | | |
| Sl. No. | Department | Equipment | Location | Job description | | |
| | CSR | | Baragard | CONSTRCUTION OF SCHOOL BUILDING AT SARBAHAL | | |
| JSA Performed by - Bharat Behera | | | Reviewed & Approved by - Dinesh Patel | | Issue Date - 26.02.2018 | |
| HAZARD TEXT/TYPE | | | | | | |
| PHYSICAL HAZARDS | | | ELECTRICAL HAZARDS | CHEMICAL/ GAS HAZARDS | EXCAVATION | OTHERS |
| Noise | Fall from height | Force (Push/Pull) | Shock/ Electrocuton | Flammable/ Explosive | Collapse/Sliding | Fire |
| Radiation | Fall (Slip/Trip) | Caught in/on or between | Static electricity | Fumes Inhalation | Underground live cable damage | Heavy Wind/Rain |
| Confined space | Fall down/below | Struck by/against | Arc/flash blast | Ingestion/Absorption | EGRONOMICS | Dust exposure |
| Pressurized 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 | Repetitive motion | Human factor |
| PPEs to be used | | Safety helmet, handgloves, safety glass, ear pluck, safety shoes, nose mask. | | | | |
| Tools required | | Screwdriver, spanner, slide wrench, plier and other standard T & P as required for the work. | | | | |
| SEQUENCE OF BASIC STEPS | | SAFETY, HEALTH & ENVIROMENTAL HAZARDS | | CONTROL MEASURES | | |
| Excavation work by manual labour | | injury to leg by excavating tools | | Safety shoe and other PPE to be used | | |
| Excavation by Mechanical means using Excavator mechineries | | Hiting if excavator bucket to outside men on work arround | | Swing distance of machine bucket to be barricade. Opearation of equipment is to be done by trained operator only. | | |
| Handling of bricks | | The labourers engaged should not throw bricks from one hand to the other | | Hand gloves, safety shoes must be worn. | | |
| Brick work / Concreting / palstering | | While pouring concrete / plaseter for brick work / tile work cement slurry come in contact with the hand. | | Hand gloves, safety shoes must be worn. | | |
| Transportation of material (Channel / GCI Sheet / brick / sand / cement / excavated earth) by tractor | | While transporting the brick, sand, cement and excavated earth by tractor care should be taken to see that no labourers should sit on the backside of the tractor . | | The driver and vehicle should have valid driving licence, insurance, upto date registration etc. The agency should utilise experienced labourers with valid licence. The vehicle safety like speed limit 10 to 20km/hr should be followed. Reversing of vehicle | | |
| Unloading of material from tractor | | While unloadingthe Tile, brick, sand, cement and PH items by tractor or any vehicle care should be taken to see that no labourers should sit on the backside of the tractor . | | The driver and vehicle should have valid driving licence, insurance, upto date registration etc. The agency should utilise experienced labourers with valid licence. The vehicle safety like speed limit 10 to 20km/hr should be followed. Reversing of vehicle | | |
| Cleaning of working area | | Foreign body and dust may strike different parts of the body, snake 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 6ft full ankle gun boots to be provided) | | |
| Final inspection & House keeping | | Any left out material if kept at site | | Material should be removed with proper PPEs so that no injury to be occurred to others. | | |
| Emergency Safety Measures :- | | | | To be made supervision twice in a day | | |
| Emergency Contacts- Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/277, Hospital-666 | | | | | | |
| Overall Job Risk Category- (High / Medium / Low) :- | | | | High | Medium | Low |
| Remarks : Incase perosn find difficult in controlling hazards and minimizing risk of all activities involved with a task, Department leaders / Safety officer / Factory manager shall be consulted and finally the task shall be performed within acceptable risk level. | | | | | | |
| Pre Job Briefing (PJB) is applicable to all persons involved with the task. PJB shall be performed before the work begins | | | | | | |
| Pre Job Briefing (PJB) Acknowledgement: I undertake that the JSA is communicated to me effectively | | | | | | |
| Name | Signature | Name | Signature | Name | Signature | |
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