

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

<b>Serial No.</b>	<b>Department</b>	<b>Equipment</b>	<b>Location</b>	<b>Job description:</b>			
	<b>Facility management</b>		<b>F/M office</b>	Construction of new class room at DAV (English Medium) school at near OPGC colony at ITPS			
<b>JSA performed by:</b>	<b>Signature</b>	<b>Reviewed &amp; Approved by</b>	<b>Signature</b>	<b>Date of Issue</b>	<b>Date of revision</b>		<b>Revision No-</b>
<b>Nishant singh</b>		<b>Bichita Padhy</b>					

**HAZARD TEXT/TYPE ( For reference to identify the Hazard type )**

<b>PHYSICAL HAZARDS</b>	<b>PHYSICAL HAZARDS</b>	<b>PHYSICAL HAZARDS</b>	<b>ELECTRICAL HAZARDS</b>	<b>CHEMICAL/ GAS HAZARDS</b>	<b>EXCAVATION</b>	<b>OTHERS</b>	
Noise	<b>Fall from height</b>	Force (Push/Pull)	<b>Shock/ Electrocuti</b>	Flammable/ Explosive substances	Collapse/Sliding	Fire	
Radiation	<b>Fall (Slip/Trip)</b>	Caught in/on or between	Static electricity	Inhalation of toxic fumes	Underground live cable damage	Heavy Wind/Rain	
Confined space	<b>Fall down/below</b>	Struck by/against	Arcflash/ blast	Ingestion/Absorption	<b>ERGONOMICS</b>	<b>Dust exposure</b>	
Exposure to pressurised Steam/Air	<b>Fall of Objects from height</b>	Extreme weather (Hot/Cold)	BIOLOGICAL HAZARDS	Body/Eye Contact	<b>Poor Posture</b>	Oil spill	
Contact with Hot surface	Contact with moving parts	Poor illumination	Snake/Insect bite/Virus infection	<b>Spillage</b>	Repeatative motion	<b>Human factor</b>	

**PPEs to be used** Safety shoes, hand gloves ,safety helmet, gumboots, safety belt

**Tools required**

**Important Note-** While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference.

<b>SEQUENCE OF BASIC STEPS</b>	<b>SAFETY, HEALTH &amp; ENVIROMENT HAZARDS</b>	<b>SAFE JOB STEPS / HAZARD CONTROL MEASURES</b>				Measures adequate to mitigate the
		<b>Elimination/ Substitution</b>	<b>Engineering</b>	<b>Administrative</b>	<b>PPE</b>	
Excavation work	Electrical conduit and sewage pipe line should be identified		Excavation permit should be obtained before starting of the work.Trench must be barricated.		safety shoes, hand gloves, dust mask, safety helmet	yes
Brick work/ concreting / Plastering	While pouring concrete/ plaster for brick work etc cement slurry should not come in contact with hand		Proper care should be taken by utilising the experienced and skilled labour.		safety shoes, hand gloves, dust mask, safety helmet	yes
Preparation of paint	During preparation of paint, it may enter different parts of the body like nose, ear, eye etc.		No flame or spark should be used while preparation of paint.		Hand gloves, safety googles must be worn.	yes

Working at height	Fall from height, slip		Height work permit should be ensured before strating of work, Proper scaffolding shall be done as per norms. Scaffolding should be inspected and approved.		Safety helmet, safety belt, safety goggles, hand gloves, safety shoes.	yes
Application of paint	While painting paint may enter different parts of the body. Also paint may fall on floor		Clotes, gunny bag may be laid on the surface or floor.		Hand gloves, safety googles must be worn.	yes
Welding of MS steel	Contact with Hot surface		Hot work permit required.		Safety shoes, hand gloves ,safety helmet, safety belt, welding helmet, welding gloves.	yes
Final inspection and housekeeping	Any left out material if kept on site		Material should be removed with proper PPEs so that no injury to be occurred to others.		safety shoes, hand gloves, dust mask, safety helmet	yes

**Emergency Safety Measures ( Rescue/Fire Brigade etc):** **Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance-**

**Overall Job Risk Category-** Medium

**JSA Review during PJB:**

**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