

Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description:			
	Facility management		F/M office	Construction of Dwarf Wall from Stadium junction to towards CMT junction(500Mtr both side)at ITPS Colony			
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date of revision		Revision No-
Priyabrata Mohnata		Bichita Padhy					
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/Absorption	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, 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.							
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	
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

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	Administrati ve	PPE												
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 googles, 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 ijusy 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															

