

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		Amdhara, Rajpur GP	Construction of Kalyan Mandap at Amdhara		
JSA Performed by - Dinesh Patel			Reviewed & Approved by - Manoj Dash		Issue Date -03.01.19	
HAZARD TEXT/TYPE						
PHYSICAL HAZARDS			ELECTRICAL HAZARDS	CHEMICAL/ GAS HAZARDS	EXCAVATION	OTHERS
Noise	Fall from height	Force (Push/Pull)	Shock/ Electrocution	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	ERGONOMICS	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
<b>PPEs to be used</b>		Safety helmet, handgloves, safety glass, ear pluck, safety shoes, nose mask.				
<b>Tools required</b>		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 machineries		Hitting if excavator bucket to outside men on work around		Swing distance of machine bucket to be barricade. Operation 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 / plastering		While pouring concrete / plaster for brick work / tile work cement slurry come in contact with the hand.		Hand gloves, safety shoes must be worn.		
Work at height		Falling objects and persons.		Appropriate PPE to be used and licensed contractors who are appropriately trained and have all insurances and certificates to be allowed.		
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 license, insurance, upto date registration etc. The agency should utilise experienced labourers with valid license. The vehicle safety like speed limit 10 to 20km/hr should be followed.		
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.		
Workmen behavior & competency		Untrained and unauthorized labour access		Adequate safety induction along with technical idea to be provided. Muster roll for workmen to be provided by contractor to EIC for verification.		
<b>Emergency Safety Measures :-</b>				<b>To be made supervision once a day</b>		
<b>Emergency Contacts- Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/277, Hospital-666</b>						
<b>Overall Job Risk Category- (High / Medium / Low) :-</b>				High	Medium	Low
<b>Remarks :</b> In case person 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.						
<b>Pre Job Briefing (PJB) is applicable to all persons involved with the task. PJB shall be performed before the work begins</b>						
<b>Pre Job Briefing (PJB) Acknowledgement: I undertake that the JSA is communicated to me effectively</b>						
Name	Signature	Name	Signature	Name	Signature	