

Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description:			
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/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 helmet, shoe, hand gloves, earplug, dustmask, googles, leather haand gloves, apron, face shield etc						
Tools required	Jhadu, Belcha, Phowrah, Gambla etc.						
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		
1) Transportation of materials	1) Failure of vehicle due to overloading/unsafe driving/mechanical failure.	na	Check the fitness of the vehicle periodically. Over loading is strictly prohibited.	Ensure proper license of driver. Speed limit should me 10 km/hr during transporting in loading condition.	na	Yes	
	2) Struck by/against	na	Work carefully.	Keep distance from the working area.	na	Yes	
2) Cleaning of road surface	1) Cutting of hand/Hand injury	na	Use correct and tested tools.	na	Hand gloves must be used.	Yes	
	2) Traffic hazard/Road accident	na	na	Use traffic one to control traffic hazard.	na	Yes	
	3) Contact with dust particles.	na	na	na	Use nose mask and safety googles.	Yes	
	4) Struck by against	na	Work carefully.	na	na	Yes	
3) Preparation of Tack Coat, BM,SDBC and spreading them after transporting to the road followed by Hot work and rolling.	1) Fire / Burn hazard	na	Take hot work permit before start the hot work.	Deploy a fire watcher. Fire extinguisher and water bucket shall be kept at site.	na	Yes	
	2) During mixing/fueling/transporting/loading hot mix may come and contact with any body parts.	na	Work very cautiously during working with hot bitumen. Try to wear full clothes.	Don't stand near by hot mixing area. Keep distance. Experienced workmen to be deployed for the job.	Use safety helmet, shoe/gum boot, leather hand gloves, googles and dust mask.	Yes	
	3) Traffic hazard	na	na	Barricade the working road area.	na	Yes	
	4) Contact with dust & bitumen fume.	na	na	na	Use safety googles and nose mask properly.	Yes	

	5) Foreign material may come and stricke to body.	na	na	Barricade the working road area.	na	Yes
Emergency Safety Measures (Rescue/Fire Brigade etc):		Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666				
Overal Job Risk Category- (High/Medium/Low) :	High					
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				