

Format No: ER 5/10– F2,      JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description: Manufacturing and supplying of fly ash bricks at ITPS for 02 years			
	Ash Management	Ash Brick Plant	Ash Brick Plant	Operation of ash brick plant			
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date of revision		Revision No
		G.P.Mishra		1.10.2023			
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/ Electrocutio	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, Safety Shoes, Safety goggle, Dust mask, Hand gloves, Ear Plug, Full body harness etc.						
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		

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Loading of ash in Vehicle from Silo	Hitting with the Vehicles/ persons during loading.	N.A	1. Vehicles will be fixed with back gear alarms.	1. No person will be allowed to stay within the movement path of the vehicle 2. Supervisor at loading to be kept himeself away from the approaching vehicle	Wear safety helmet, shoes, safety goggle, dust mask	Yes
Transportation of ash from silo to ash brick plant	Blowing of dust, Inhalation of dust Air Pollution due to fugitive emission	N.A	1. Sprinkling of water 2. Covering of ash loaded vehicles	Before vehicle movement water sprinkling to be ensured	Dust mask to be used by the work men	Yes
	Road accident, Vehicle run over	N.A	1. The vehicle should be in good condition with proper Braking condition, tyre condition, gear, horn, back horn, back light 2. Periodic maintenance of vehicles to be ensured	1. All vehilces will have valid documents like RC Book, insurance, fitness cetificate 2. Driver must have valid driving licence. 3. The driver must not drive in alcoholic condition. 4. The driver must have good vision 5. While parking the vehicle for loading and un loading stoppers should be provided on both front and rear wheel. 6. Flag men will be deployed at the junction point of road for traffic control		Yes
	Blockage of road	N.A		1. The vehicle should not be parked on the road		Yes
Mixing	Cement / Sand / dust in air. Mechanical failure,	N.A	Plant healthiness to be checked at frequent intervals	Check fitness of the workers, head load, head support. Supervisor to be deployed during the activity for controlling.	Use of hand gloves, nose masks, eye protection glass during handling of materials & bricks.	Yes

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Production of Bricks and Stacking	Unbalance	N.A		Check fitness of the workers, head load, head support. Work to be executed under proper supervision.	Use of hand gloves, nose masks, eye protection glass during handling of materials & bricks.	Yes
Emergency Safety Measures ( Rescue/Fire Brigade etc): Contact MCR or inform to emergency contact no.		Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666				
Overall 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				