

**JOB SAFETY ANALYSIS (JSA)  
IB THERMAL POWER STATION, OPGC**

Format No: ER 5/10- F2

<b>Serial No.</b>	<b>Department</b>	<b>Equipment</b>	<b>Location</b>	<b>Job description:</b>			
	Ash Pond		Ash Pond TILIA	Annual Maintenance Contract (AMC) for Ash Pond TILIA .			
<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>

**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, Safety Shoes, Safety goggle, Dust mask, Hand gloves, 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	
Grass Cutting	Snake bite by poisonous snake	N.A	1. Use of hand gloves and safety shoes. 2.Sprinkling of bleaching/Carbolic acid before the start of work.	1. No person will be allowed to site with out proper PPE. 2. Ensuring Bleaching/ Carbolic acid available at site.	1. Use of hand gloves, Gum shoes/Dust mask by workmen	Yes
	Contact with vegetation	N.A	1. Use of hand gloves and safety shoes.	1. No person will be allowed to work with out proper PPE.	Wear safety helmet, hand gloves shoes,	Yes

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		Elimination/ Substitution	Engineering	Administrative	PPE	
	Thorn prick	N.A	1. Use of hand gloves and safety shoes.	1. No person will be allowed to work with out proper PPE.	safety goggle,	Yes
Suppression of ash blowing	Exposure to dust while sprinkling water	N.A	1. Sprinkling of water. 2. Use od Dust mask and goggles.	1. Water sprinkling to be ensured	Dust mask and goggles to be used by the work men	Yes
Earth Excavation Work (Manual)	Collapsing of earth	N.A	1. Excavtion should be done in desired slope to avoid collapsing.	1.Work should be done under supervision of supervisor or EIC..		Yes
	Falling into trench	N.A	2.Aviold vertical cutting of Earth. 3. Baricading work area.		1. Use of hand gloves, Safety helmet,shoes/Dust mask, goggles by workmen	Yes
Road Repair	Hiting of construction materials with body parts while unloading from tractor	N.A	1. use of proper PPE and baricading unloading area.	1. Supervisor will be deployed at the dumping site for adequate supervison 2. The supervisor must keep himself away from the unloading area. 3. No person will be allowed to throw material from height whiel unloading.	1. Use of hand gloves, Safety shoes/Dust mask, goggles by workmen	Yes
	Exposure to dust while cleaning surface	N.A	1.use of dust mask 2.Sprinkling of water	1.Ensuring use of dust mask/ goggles while working		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) :		<b>High</b>				

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		Elimination/ Substitution	Engineering	Administrative	PPE	
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				