

PTW NO. :- 61/

Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description:			
1	MMDCHP	BCN-	TP-	ROOF SHEETING AND CLADDING WORK.			
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date of revision		Revision No-
					01.04.2020		R0
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/Abso rption	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	Hand gloves, Safety Goggles,Dust musk,Safety helmet,Ear plug, welding apron,leather gloves, welding helmet,etc.						
Tools required	Welding machine, welding rod, grinding machine, gas cutter, hammer, screw driver,spanner,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		
Working on equipment/Conveyor	Contact with moving parts	N.A	ISOLATION OF BCN-MOTOR to be made. PTW to be issued.	Electrical isolation and LOTO procedure to be followed.	General ppe use	YES	
	Fauilure of Tools/Takels	N.A	N.A	Use certified tools and before start work physically verify all tools at site	hand gloves, Safety Goggles,Dust musk	YES	

ERECTION OF SCAFFOLDING	Fall hazard	N.A		Scaffolding components to be ensured healthy. Put Red colour tag at the time scaffolding erection..Certify the platform before use from Authorised person	Use Rubber hand gloves & Safety goggle.	YES
		N.A		Ensure anchor point of full body harness must be rigid enough.	Use full body harness.	YES
	Struck by/against Tools and tackles.	N.A		Care fully shift the materail. Transfer scaffolding components hand to hand or use manila rope. Do not throw the materilas.	Use Rubber hand gloves & Safety goggle.	YES
	Fall of Objects from height	N.A		Securely hold the scaffolding materail during its shifting for erection of scaffolding. Use manila rope for shifting of scaffolding material from bootom to top. Do not stand under the shifting	Use Rubber hand gloves & Safety goggle.	YES
	Slip hazard	N.A		Clean the shoes from slipper type substances.	Use Rubber hand gloves & Safety goggle.	YES
WORK AT HEIGHT	Fall from height.	N.A		Ensure anchor point of full body harness must be rigid enough.	Use full body harness.	YES
Dismantling of GCI Sheet	Fire hazard	N.A		Obtain Hot Work permit.Deploy fire watcher with fire exstigusher.Remove all combustibile before start work.	hand gloves, Safety Goggles, Dust musk	YES
	Contact with hot splattor	N.A		Use of welding apron. Intermittent water sprinkling in floor to be done.	Use welding aprone,welding visor & lether hand gloves.	YES
	Working at height.	N.A		Use full body harness. proper check the anchor point & belt condition.	FULL BODY HARNESS & General ppe	YES

ROOF SHEETING AND CLADING WORK.	Fauilure of Tools/Takels	N.A		Use certified tools and before start work physically verify all tools at site	hand gloves, Safety Goggles	YES
	Force (Push/Pull)	N.A		Use tested & certified tools and before start work physically verify all tools at site	hand gloves, Safety Goggles, Dust musk	YES
	Cut/Injury	N.A		Before start work physically verify the hand gloves	hand gloves, Safety Goggles,Dust musk	YES
	Struck by/against	NA		Care fully shifting material by trolly or manualy in working area.	hand gloves, Safety Goggles, Dust musk, Safety helmat.	YES
Emergency Safety Measures (Rescue/Fire Emergency Contacts-Main Control Room- 8018084333, Fire- 06645222257, Ambulance- 06645222214,						
Overall Job Risk Category-		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				