		Farmat N. FD F/12 TO	100 C	ANIAL VOIC (15.1)	THED A 4 : DOI: 5	TION COOK		1					
Serial No.	Department	Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC Equipment Location Job description:											
	Civil	Clarifier Drive Wheel	Main Plant	AMC for Specialised Civil Maintenance work inside Main Plant Area at ITPS									
JSA performed by:	Signature	Reviewed & Approved by Signature		Date of Issue Date of revision			Revision No-						
	0.g		0.8	2440 01 15540	2010 61								
HAZARD TEXT/TYPE (For reference to identify the Hazard type)													
PHYSICAL HAZARDS PHYSICAL HAZARDS PHYSICAL HAZARDS ELECTRICAL CHEMICAL/ GAS EXCAVATION OTHERS													
PHYSICAL HAZARDS	PHYSICAL HAZARDS	PHYSICAL HAZARDS HAZARDS		HAZARDS	EXCAVATION		OTHERS						
Noise	Fall from height	Force (Push/Pull) Shock/ Electrocution		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/Absorpt ion	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	Snake/Insect Poor illumination bite/Virus infection		Spillage	Repeatative motion		Human factor						
PPEs to be used	, , , , , , , , , , , , , , , , , , , ,	d gloves, earplug, dustmask, go	oogles etc										
Tools required	Sledge hammer, belcha,												
Important Note- While	e deciding hazard control	measures, consider hierarchy o	of hazard control s		erence. AFE JOB STEPS / HAZA	RD CONTROL MEASU	RES						
SEQUENCE OF BASIC STEPS		SAFETY, HEALTH & ENVIROMENT HAZARDS					<u>-</u>	Are control Measures					
				Elimination/ Substitution	Engineering	Administrative	PPE	adequate to mitigate the risk (Yes/No)					
Shifting of materials near to working area.		1) Fall (Slip/Trip)		na	Working site along with the path way shall be cleaned.	na	na	Yes					
		2) Fall from height		na	na	Don't lean, three point contact to be ensured.	na	Yes					
		3) Fall of objects from height		na	na	Barricade the ground area.	na	yes					
		1) Fall (Slip/Trip)		na	Clean the working site properly. Don't go to the edge near by.	Isolation protable pump 4&5 moudle pump	Use safety helmet, shoe, hand gloves, earplug, dust mask and googles.	Yes					
		2) Exposure to cement dust.		na	na	na	Use safety googles and dustmask.	Yes					
Core Cutting / Core Dr Machine	illing using Core Cutting	3) Noise		na	na	na	Use earplug.	Yes					
iviaciniie		4) Hand/body injury		na	Work carefully with proper posture.		Hand gloves must be used.	Yes					
		5) Electric Shock		na	Use certified cable, machine and board.	Deploy trained workmen		Yes					
Shuttering works		1) Body/Hand injury		na	Work carefully	Deploy trained	Use safety helmet,	Yes					
		2) Cutting of hand				workmen	shoe, hand gloves.	Yes					
		3) Contact with fire sparks		na	na	na	Face shield must be used if use cutter or any equipment	Yes					
		4) Exposure to cement dust		na	na	na	Use safety googles and nose mask.	Yes					
		5) Irritation on hand/legs		na	na	na	Use rubber hand gloves and gum boot.	Yes					
		2) Fall from height		na	na	na	Use full body harness and anchor the lanyard to a rigid structure.	Yes					

		SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control	
SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	Measures adequate to mitigate the risk (Yes/No)	
Work at height	3) Fall of objects from height	na	na	Barricade the ground area.	Use hand gloves having proper grip and ground area workmen shall wear safety helmet properly.	Yes	
	1) Fall (Slip/Trip)	na	Clean the working site properly.	na	Use safety helmet, shoe, hand gloves, earplug, dust mask and googles.	Yes	
Injection Grouting/ Pouring of chemical / grouts	2) Exposure to Chemical/cement dust.	na	na	na	Use rubber hand gloves,safety googles and dustmask.	Yes	
	3) Noise	na	na	na	Use earplug.	Yes	
	4) Hand injury during shuttering works.	na	Work carefully.	na	Hand gloves must be used.	Yes	
	5) Contact with chemical dust	na	na	na	3) Use safety googles and dust mask.	Yes	
Emergency Safety Measures (Rescue/Fire Bri	Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666						
Overal Job Risk Category-	Medium	ļ.					
JSA Review during PJB:							
Pre Job Briefing (PJB) is applicable to all perso	ns involved with the task.						
Pre Job Briefing (PJB) Acknowledgement: I un	dertake that the JSA is communicated to me effe	ctively					
Name Agency's name				Signature			
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