	Format	No: ER 5/10– F2,	JOB SAFE	TY ANALYSIS (JSA)	, IB THERMAL POW	ER STATION, OPGC			
Serial No. Department Equipment Location Job description:									
	Main Plant Civil		Main Plant Area	Water Proofing of E	oofing of Bunker Roof of Unit1 &2 at ITPS				
JSA performed by:	Signature	Reviewed &	Signature	Date of Issue	Date	of revision		Revision No-	
		Approved by							
						-			
	_	1			ence to identify the Ha		1	1	
PHYSICAL HAZARDS	PHYSICAL HAZARDS	PHYSICAL HAZARDS	ELECTRICAL	CHEMICAL/ GAS	EXCAVATION		OTHERS		
			HAZARDS	HAZARDS					
Noise	Fall from height	Force (Push/Pull)	Shock/	Flammable/	Collapse/Sliding		Fire		
			Electrocution	Explosive					
		_		substances					
Radiation	Fall (Slip/Trip)	Caught in/on or	Static		Underground live cable damage		Heavy Wind/Rain		
		between	electricity	fumes					
Confined space	Fall down/below	Struck by/against	Arcflash/ blast	Ingestion/Absorpt	ERGONOMICS		Dust exposure		
Exposure to	Fall of Objects from	Extreme weather	BIOLOGICAL	Body/Eye Contact	Poor Posture		Oil spill		
pressurised	height	(Hot/Cold)	HAZARDS	" ," ,"					
Steam/Air	1	(,							
Contact with Hot	Contact with	Poor illumination	Snake/Insect	Spillage	Repeatative motion		Human factor		
surface	moving parts		bite/Virus						
Jan 1446	ovg parts		infection						
PPEs to be used	Safety shoes, hand g	loves ,safety helmet, N		ug/muff, Safety gogg	les, reflective vest, etc			!	
Tools required						r, line and pins, measuring bo	ox, measuring tape, plumb bo	b, sand screen, spade,	
Important Note- Whil		trol measures, consider					<u> </u>	, , ,	
	F BASIC STEPS	SAFETY, HEALTH &		,		/ HAZARD CONTROL MEASU	JRES	Are control	
		HAZARDS		Elimination/	Engineering Administrative		PPE	Measures adequate	
				Substitution				to mitigate the risk (Yes/No)	
Concrete work for roo	of grading, Application	Body injury (Slip/trip)				Have a 360 degree vision	Safety shoes, hand gloves	Yes	
of Xypex concentrate and Roof haller work		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				and be alert about the area	,safety helmet, safety		
						of work. Use proper and	goggles, nose mask, ear		
						healthy tools.	plug/muff		
						Treating tools.	piug/mum		
		Body eye conact/ hand injury				Engage inline experienced	Safety shoes, hand gloves	Yes	
						work person, Use healthy	,safety helmet, safety		
						and tested Tools.	goggles, nose mask, ear		
							nlug/muff		
		Poor Posture				Take Rest in between the	Safety shoes, hand gloves	Yes	
						job. Do not overstrech your	_		
						body. Keep in mind about	goggles, nose mask, ear		
				1	ī	•			

SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control
	HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	Measures adequate to mitigate the risk (Yes/No)
	Falling of Object from height			Proper supervision to be done, restrict unauthorized entry to the workplace.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
	Falling of workmen from height		Ensure that the ladder/platform should be placed on a flat and rigid surface.	Use A-type FRP Ladder and one person must be holding the ladder at the time of climbing/decending. Have a firm grip on the ladder/platform and maintain a 3-point contact while climbing/decending on the ladder/platform. In case of platforms, ensure that top rail and midrails are healthy and strong.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
Dismatling of grading concrete, Removing and Cleaning of of construction debris.	Body injury (Slip/trip)			Have a 360 degree vision and be alert about the area of work. Use proper and healthy tools.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
	Body eye conact/ hand injury			Engage inline experienced work person, Use healthy and tested Tools.Use safety goggles to avoid any foreign material to go inside your eye.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
	Dust/Ash/fumes			Keep dust/fume mask with you. Use wherever needed.Check, whether the filters of the mask are clean before using. Use clean	,safety helmet, safety goggles, nose mask, ear	Yes
	Falling of Object from height		e 2 of 3	Proper supervision to be done, restrict unauthorized entry to the workplace.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes

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SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT		Are control					
	HAZARDS	Elimination/	Engineering	Administrative	PPE	Measures adequate		
		Substitution				to mitigate the risk		
						(Yes/No)		
	Poor Posture			Take Rest in between the	Safety shoes, hand gloves	Yes		
	l ooi i ostare			job. Do not overstrech your		163		
				ľ				
				body. Keep in mind about	goggles, nose mask, ear			
				vour body limits.	lolug/muff			
Emergency Safety Measures ( Rescue/Fire Brigade etc):		Emergency Contact	ts-Main Control Room	ı- 222, 233,244, Fire- 777, 222	2257, Ambulance- 248/337, H	ospital-666		
Overal 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						