	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		ITPS colony	Development of Co	ncrete Flooring of Yar	d Conveyor at CHP-2			
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date	e of revision		Revision No-	
		-	HAZARD TEX		ence to identify the Ha	azard type)			
PHYSICAL HAZARDS	PHYSICAL HAZARDS	PHYSICAL HAZARDS	ELECTRICAL HAZARDS	CHEMICAL/ GAS HAZARDS	EX	CAVATION	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 ca	ble 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	Contact with	Poor illumination	Snake/Insect	Spillage	Repeatative motion		Human factor		
surface	moving parts		bite/Virus infection						
PPEs to be used	Safety shoes, hand g	gloves ,safety helmet, N	ose mask, Ear pl	ug/muff, Safety gog	gles, reflective vest, et	C.	-		
Tools required	Hoe, pick axe, spade	e, digging bar, measurin	g box, head pan,	masonry trowel, cir	cular saw, float, ladde	r, line and pins, measuring bo	ox, measuring tape, plumb bo	b, sand screen, spade,	
Important Note- Whil	e deciding hazard cor	ntrol measures, conside	r hierarchy of ha	zard control steps in	order of preference.				
SEQUENCE OF	BASIC STEPS	SAFETY, HEALTH &	ENVIROMENT		SAFE JOB STEPS	/ HAZARD CONTROL MEASU	JRES	Are control	
		HAZARI	DS	Elimination/ Substitution	Engineering	Administrative	PPE	Measures adequate to mitigate the risk (Yes/No)	
Excavation work.		Electrocution/Shock fr underground/burried (Ensure the proper isolation and put local LOTO on the RCCB/Main switch. Ensure zero voltage before starting the job. Use insulation mat while doing isolation.	,safety helmet, safety goggles, nose mask, ear	Yes	
		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	

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)
	Body eye conact/ hand/leg injury while digging/manual excavation			Engage inline experienced work person, Use healthy and tested Tools.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear olug/muff	Yes
	Poor Posture			your body limits.	goggles, nose mask, ear plug/muff	Yes
	Collapse/sliding of soil			a distance of 1 mtr from	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	
	Dust/Ash/fumes			Keep dust/fume mask with you. Use wherever needed.Check, whether the filters of the mask are clean before using. Use	,safety helmet, safety	Yes
	Fall of person inside excavated pit/trench			Barricade the working area with hard barrication. Use caution tapes and barriers	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
Concrete work	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, gum boots.	Yes
	Body eye conact/ hand injury			Engage inline experienced work person, Use healthy and tested Tools. Use rubber hand gloves to avoid direct contact with cement.	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff, gum boots.	Yes
	Poor Posture			job. Do not overstrech your body. Keep in mind about	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff, gum boots.	Yes

SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT		Are control			
	HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	Measures adequate to mitigate the risk (Yes/No)
Centering and shuttering work	Body injury (Slip/trip)			and be alert about the area	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
	Fall of ladder/platform		Ensure that the ladder/platform should be placed on a flat and rigid surface.		Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
	Poor Posture			job. Do not overstrech your	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
	Falling from height of workmen		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	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
Removing 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

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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)
	Body eye conact/ hand injury			work person, Use healthy and tested Tools.Use safety	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	,safety helmet, safety	Yes
	Falling of Object from height			Proper supervision to be done, restrict unauthorized	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear nlug/muff	Yes
	Poor Posture			job. Do not overstrech your	Safety shoes, hand gloves	Yes
Tractor loading and unloading for shifting of materials at site.	Body injury (Slip/trip)			Have a 360 degree vision and be alert about the area of work. Use proper and	Safety shoes, hand gloves	Yes
	Body eye conact/ hand injury			work person, Use healthy and tested Tools.Use safety	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	,safety helmet, safety	Yes

SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT		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 olug/muff	Yes
	Poor Posture			job. Do not overstrech your body. Keep in mind about	Safety shoes, hand gloves ,safety helmet, safety goggles, nose mask, ear plug/muff	Yes
Emergency Safety Measures (Rescue/Fire	Brigade etc):	Emergency Contac	ts-Main Control Room		2257, Ambulance- 248/337,	Hospital-666
Overal Job Risk Category-	HIGH					
JSA Review during PJB:						
Pre Job Briefing (PJB) is applicable to all pe	ersons involved with the task.					
Pre Job Briefing (PJB) Acknowledgement: I	undertake that the JSA is communicate	ed to me effectively	1			
Name	Agency's name			Signature		