Format No: ER 5			5/10-F2	ITPS JOB SAFETY ANALYSIS (JSA)				
Serial No.	Department	Equipment	Location	Job description  Development of ash storage yard and rake loading platform				
			Inside Plant					
JSA performed	l by: Akhila Satapatl	hy						
			HAZARD TEX	(T/TYPE	_			
PHYSICAL HARZARDS	PHYSICAL HARZARDS	PHYSICAL HARZARDS	ELECTRICAL HAZARDS	CHEMICAL/GAS HARZARDS	EXCAVATION	OTHERS		
Noise	Fall from Height	Fore3ce (push/pull)	shock /	Flammable/ Explosive	Collapse/sliding	Fire		
Radiation	Fall (slip/Trip)	Caught in/on or between	Static electricity	Fumes Inhalation	Underground live cable	Heavy wind / Rain		
Confined space	Fall down/below	Struck by/against	Arc/flash blast	Ingestion/Absorption	Ergonomics	Dust exposure		
Exposure to pressurized steam/Air	Fall of objects from height	Extreme weather (hot & cold)	BIOLOGICAL HAZARDS	Body/Eye contact	Poor posture	Oil spill		
Contact with Hot surface	contacts with moving parts	poor illumination		Spillage	Repetitive motion	Human factor		
PPEs to be used		es, safety Glass, Hand gloves, Dust mask, Full body harness & Scaffolding materials.						
Tools required	Mixture machine,	gamble, trowel, phowrah, welding machine, hammer, bucket, belcha etc.						
	fety measures for	Rescue facilities (Heigh	nt, Confined space, Me	edical, First aid, Fire exting	guishing etc.)			
Applicable Emerg	gency Safety Measures	Emergency Tel Nos -fir	Tel Nos -fire- 777,222257, Ambulance- 248/277, Hospital-666(Mr./233/244/222222)					
		Medium						
SEQUENCE OF BASIC STEPS		SAFETY, HEALTH & ENVIROMENT HAZARD		SAFE JOB STEPS AND CONTROL MEASURES				
		1, contact their interest of equipment		1) Obtain excavation permit before start the job. Make sure that no live cable is there near the excavation premises.				
		2) Fall down below		2) Barricade the excavated area.				
		3) Body/hand/leg injury/Struck by against.		3) Work carefully & maintain distance from the excavated area.				
		14) Injury due to swing of excavator		4) Deploy supervisor at excavation site, no worker should be allowed to enter in the swing area of the excavator				
				1)Barricade the trenches.				
		,		2) Use warning signs & lights.				
2) Post Excava	tion	4) Injury due to swing of excavator  1) Unattended Trenches		enter in the swing area of the excavator  1)Barricade the trenches.				

SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARD	SAFE JOB STEPS AND CONTROL MEASURES		
	2) Trench left opened for extended period	1) Close the trench, backfill and compact the area.		
	1) Cutting of hand/body parts.	Work to be executed carefully     Use hand gloves along with other PPEs.		
3) Cutting, bending and fixing of steel and shuttering works.	2) Body/hand/leg injury/Struck by against.			
steer and shattering works.	3) Electric shock.	3) Use certified cable/board and machine.		
	4) Fire/burn hazard @ Hot work	4) Take hot work permit.		
4) Cutting, bending and	1)Accidental contact with grinder wheel can cause bad cuts	1) Works should ensure the grinders guard is in place and fully operational before use.		
Positioning of TMT Reinforcement	2)Mill scale, sharp ends of tie wire can injure eyes	2)Should use safety glass		
Remoreciment	3)Tripping & Falling	3)Cut pieces and debris should be removed from the work place on daily basis.		
	1) Fall (Slip/Trip)	1) Clean the site properly		
5) PCC, RCC, concrete grading of	2) Body/hand/leg/other body part injury	2) Deploy trained workmen & Use hand gloves along with helmet, shoe, glass, earplug & dust mask.		
roof, Ash brick work, plastering.	3) Eye injury	3) Use safety glass always.		
	4) Irritation on hand/leg.	4) Use rubber hand gloves & gum boot during concreting.		
	5) Fall from height.	5) Use full body harness during working at height.		
	1) Fall from height.	1) Deploy trained workers for erection & dismantling of the scaffolding.		
		1a) Use full body harness & anchored the lanyards properly.		
6) Erection & dismantling of	2) Collapse of scaffolding.	2) The scaffolding materials along with the location shall be inspected by the competent person before starting of scaffolding.		
scaffolding.		2a) Deploy trained scaffolders for erection & dismantling of the scaffolding.		
		2b) After erection the scaffolding shall be certified by the competent person than only it may be used.		
	3) Fall of objects from height.	3) The scaffolding area shall be barricaded. Use safety helmet along with other PPEs.		
Pre Job Briefing (PJB) is Acknowled	dgement : I undertake that the JSA is commun	icated to me effectively		

SEQUENCE OF BASIC STEPS SAFETY, HEALTH		VIROMENT HAZARD	SAFE JOB STEPS AND CONTROL MEASURES		
Name	Signature	Name		Signature	