Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC									
Serial No.	Department	Equipment	Location	Job description:					
	Ash Pond	Ash Pond	Ash Pond	Name of work: Annual Maintenance Contract (AMC) for Miscellaneous works at Ash Pond-A, B & C of ITPS for Two Years					
JSA performed by:	Anil Panda	Reviewed & Approved by	Gouri prasad Mishra	Date of Issue Date of revision Revision No-		Revision No-			
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/ 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/Absorption	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	Safety Helmet, Safety Shoes, Safety goggle, Dust mask, Hand gloves, Ear Plug, Full body harness etc.								
Tools required	Spade, crow bar, hose pipe etc.								
Important Note- While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference.									

	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control
SEQUENCE OF BASIC STEPS		Elimination/ Substitution	Engineering	Administrative	PPE	Measures adequate to mitigate the risk (Yes/No)
1.Sprinkling of water over dry ash.	1.Ash blowing.	N.A	Ash disposal series will be operated with extension of HDPE pipes for keeping the surface wet to avoid blowing     Diesel pump will be operated for water sprinkling	1.The worker must use dust mask,Safety glass during dry	Wear safety helmet, shoes, safety goggle, dust mask	yes
1.Cleaning of wild grass from slope of bund, AD pipe line. 2.cleaning of toe/periphery drain of ash pond 'B'	1.Sliping from the slope. 2.Injury dueto slip of sickle.	N.A	1. For working in slope rope support to be used, by placing the rope firmly at the top of embankment.	I) the workers should movel	Wear safety helmet, shoes, safety goggle, dust mask	Yes
Cleaning of Control room, Pump house, Battery room and Site office	1.Falling from height while Cleaning. 2.Dust ingress in Nose & Eye during cleaning of surface. 3.Falling of cleaning materials on ground while Cleaning and create environmental hazard.	N.A	1.Scaffolding to be made	1.Painting materials will be shifted to the painter in small container/bucket carefully.      2.The ground will be cleaned immediately.	Wear safety helmet, shoes, safety goggle, dust mask	Yes
	Drowning in water     Slip in the slope of embankment	N.A	1. For safe working in slope rope support to be used 2. Life-buoy and life jacket to be used for working inside ash water with long rope.	More than four workers to be deployed with proper PPF and	Life jacket, Rope,	Yes

			Are control			
SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	Are control Measures adequate to mitigate the risk (Yes/No)
Emergency Safety Measures ( Rescue/Fir to emergency contact no.	Emergency Contacts	-Main Control Room- 222, 2	33,244, Fire- 777, 222257, Ambular	nce- 248/337, Hosp	oital-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 communica	ted to me effectively				
Name	Agency's name Signature					