

Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description : AMC for Providing Service for STP at ITPS.			
	Facility Mgmt		STP				
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date of revision		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	Repeataive motion	Human factor	
PPEs to be used	Safety Shoes, Safety Helmet, Nose Mask, Gum Boots, Safety Goggles, Rubber Hand Gloves, Ear Plug						
Tools required	Screw Deriver, spanner set, sliding wrench, pliers and other standard T&P required for the work, Chain pulley block and ladder						
Important Note- While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference.							
SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control Measures adequate to mitigate the risk (Yes/No)	
		Elimination/ Substitution	Engineering	Administrative	PPE		
Cleaning of Equipments, rooms and tanks	Electrical Shock, Contact with moving parts		LOTO and PTW system to be ensured		Rubber hand gloves, safety shoes helmet	Yes	
Cleaning of Sludge from STP Primary settling tanks.	Sewage sludge water will come in contact with the body.			Wash the body with fresh water and soap.	Use of rubber hand gloves, gum boots	Yes	
Dosing of Chemicals	Chemical Hazards		Follow the MSDS instructions available on the site.		Use of rubber hand gloves, gum boots, safety goggles	Yes	
Disposal of sludge / waste.	Sewage sludge will come in contact with the body.			Wash the body with fresh water and soap.	Use of rubber hand gloves, gum boots	Yes	

SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control Measures adequate to mitigate the risk (Yes/No)											
		Elimination/ Substitution	Engineering	Administrative	PPE												
Operation of Valves and Mechanical Controls	Electrical Shock, Contact with moving parts		Follow the Standard operating procedure as mentioned in the manual			Yes											
Cleaning of the working area	Foreign body and dust may strike different parts of the body, snake and reptiles may bite.				Safety ankle shoes must ne worn if grass height is more than 6 feet. <u>Usage of safety</u>	Yes											
Emergency Safety Measures (Rescue / Fire Brigade etc):		Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666															
Overall Job Risk Category- (High/Medium/Low) :	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															