		Format No: ER 5/1	.0– F2, JOB SA	FETY ANALYSIS (J	SA), IB THERMAL POWER ST	TATION, OPGC			
Serial No.	Department	Department Equipment Location Job description: AMC for Operation and Maintenance of STP, Water Supply and PH Maintenance in IT						& New	
				Infrastructure Area for the Year 2023-2025					
	Facility								
	Management		ITPS Colony		1				
JSA performed by:	Signature	Reviewed &	Signature	Date of Issue	Date of revision			Revision No-	
		Approved by							
			HAZADD TE	TT/TVDE / For rof	I erence to identify the Hazar	rd tuno l	1	<u> </u>	
	PHYSICAL	PHYSICAL		CHEMICAL/	erence to identify the Hazai				
PHYSICAL HAZARDS	HAZARDS	HAZARDS	ELECTRICAL HAZARDS	GAS HAZARDS		OTHERS			
	HAZARDS	HAZARDS		Flammable/					
Noise	Fall from height	Force (Push/Pull)	Shock/ Electrocution	Explosive	Collapse/Sliding	Fire			
				substances					
Radiation	F-II (CI: /T-::)	Caught in/on or between	Static electricity	Inhalation of	Underground live cable damage		Heavy Wind/Rain		
Radiation	Fall (Slip/Trip)			toxic fumes			neavy wind/kain		
Confined space	Fall down/below	Struck by/against	Arcflash/ blast	Ingestion/Abso	ERGONOMICS		Dust exposure		
Commed space	r an down, below	Struck by/ against		rption	ENGONOMICS				
Exposure to	Fall of Objects	Extreme weather		Body/Eye					
pressurised Steam/Air	from height	(Hot/Cold)	BIOLOGICAL HAZARDS	Contact	Poor Posture		Oil spill		
Contact with Hot	Contact with		Snake/Insect						
		Poor illumination	bite/Virus infection	Spillage	Repeatative motion		Human factor		
surface PPEs to be used	moving parts	ty Helmet Hand Glo		oggles gum hoots	L par nlugs wolding full fac	e mask, boiler suit, Safety reflective jacket.			
Tools required						haxsaw, D spanner set, die rachet set			
			der hierarchy of hazard			naxaw, b spanier set, die rachet set			
		1				TEPS / HAZARD CONTROL MEASURES			
					Engineering	Administrative		Are control	
CECHENICE OF BASIC ST	CECUIENCE OF BACIC CTERS		SAFETY, HEALTH & ENVIROMENT					Measures	
SEQUENCE OF BASIC STEPS		HAZARDS		Elimination/ Substitution			PPE	adequate to	
								mitigate the	
								risk (Yes/No)	
Cleaning of Equipments, rooms and tanks		Electrical Shock, Contact with moving parts			LOTO and PTW system to		Rubber hand gloves,	Yes	
01 1 601 1 6	OTD 0 :	Carrage alreades are the carrage and a second a second and a second an			be ensured		safety shoes helmet		
Cleaning of Sludge from STP Primary		Sewage sludge water will come in contact				Wash the body with fresh water and soap.	Use of rubber hand	Yes	
settling tanks.		with the body. Chemical Hazards			Follow the MSDS		gloves, gum boots	Yes	
Dosing of Chemicals		Chemical Hazards					Use of rubber hand	res	
					instructions available on the site.		gloves, gum boots, safety goggles		
Disposal of sludge / waste.		Sewage sludge will	come in contact with		me site.	Wash the body with fresh water and soap.	Use of rubber hand	Yes	
		the body.				and soup.	gloves, gum boots	1.55	
Operation of Valves and	l Mechanical		ntact with moving parts		Follow the Standard		g.o.co, gam boots	Yes	
Controls		,	31.		operating procedure as				
					mentioned in the manual				
Cleaning of the working area		Foreign body and dust may strike different parts of the body, snake and reptiles may					Safety ankle shoes	Yes	
							must ne worn if grass		
		bite.			1		height is more than 6		
					1		feet. Usage of safety		
					1		goggles is to be		
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		SAFE JOB STEPS / HAZARD CONTROL MEASURES						
SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	Are control Measures adequate to mitigate the risk (Yes/No)		
Fixing of Glass Shelf	Falling of glass shelf from the hand and causing injury to body			Take care so as to to avoid slippery surface. Do not work on wet surface or area.	Wear rubber hand gloves to avoid slippage	Yes		
Drilling of holes on walls	Fall of foreign material into the eyes.				Wear Safety Goggles	Yes		
	Electocution		Take power supply from the designated source only.	If power supply source is taken from elsewhere, make the connection from designated electrician only.	Wear rubber hand gloves to avoid slippage.	Yes		
Working on terrace for repairing pipeline	Fall from height			Never work beyond the parapet area. Never sit on the parapet wall.		Yes		
Cutting of threads of G.I pipeline	Cut injury to hands				Wear cotton hand gloves while doing this job.	Yes		
Working at Height	Risk of falling from height		Take permit before work		Use of proper PPE, full body harness, fall protection measure, proper scaffolding, proper ladder to be used as per standard.			
Plumbing work	Injury to hand, falling of tools and tackles				Use of proper PPES Sarety Goggles, nand			
Cleaning of the working area.	Foreign materials and dust may strike the different parts of the body, snakes and reptiles may bite.				gloves, dust masks, and other PPEs must be worn while executing the job. (If grass height more than 6 feet then full ankle gun boots to be			
Final Inspection & House Keeping	Any left out material kept at site				Material should be removed with proper PPEs so that no injury occurs to others.			
Emergency Safety Measures ( Rescue / Fir	e Brigado etc):	Emergency Con	tacts-Main Control Room 2	22, 233,244, Fire- 777, 222257, Ambulance- 2	   18/227 Hospital_666			
Overal Job Risk Category-	High	ILINEI BEILLY COIL	tacts-ivialii Culiti ul Ruulli- 2	, 233,277, File- ///, 22223/, Anibuidite- 24	-0/ 337, позрікаг-000			
Pre Job Briefing (PJB) is applicable to all p		mo offoctively						
Name	I undertake that the JSA is communicated to me effectively  Agency's name  Signature							