	Format N	lo: ER 5/10– F2,	JOB SA	FETY ANALYSIS	(JSA), IB THERMAL POV	WER STATION, OPGC			
Serial No.	Department	Equipment	Location	Job description: Repairing of Roads in ITPS Colony					
			ITPS Colony						
JSA performed by:	Signature	Reviewed & Approved by:	Signature	Date of Issue	Date of revision			Revision No-	
	_				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/Absor ption	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 Shoes, Safety Helmet, Hand Gloves, Dust Mask, safety goggles, gum boots and safety shoes, welding full face mask, boiler suit.								
Tools required	Road Marking Machine, Thermoplastic Paint, Mixer Machine								
Important N	<b>ote-</b> While decidir	ng hazard control	measures, conside	r hierarchy of ha	zard control steps in order	of preference.			
SEQUENCE OF BASIC STEPS SAFETY,		SAFETY, HEALTH	H & ENVIROMENT	SAFE JOB STEPS / HAZARD CONTROL MEASURES			Measures		
		HAZ	HAZARDS		Engineering	Administrative	PPE	adequate to mitigate the risk	
Excavation of Road sides		Contact with live cables, water pip pipelines	_			Take excavation permit from colony maintenace.			
Cleaning of granular vase surfa		Fall of dust into e inhalation of dus	•				Use of dust mask and safety goggles.		

	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Measures
SEQUENCE OF BASIC STEPS		Elimination/ Substitution	Engineering	Administrative	PPE	adequate to mitigate the risk
Carriage of materials from the	Accident of vehicle, fall of man			The speed limit of the		
hot mix plant to the work site	form the vehicle, hit with other			vehicle should be below 30		
	objects			Km/hr. The vehicle should		
				have a proper fitness		
				license and the driver		
				should have a valid driving		
				license. No person should		
				sit on the trolley of the		
				vehicle. The vehicle should		
				have a reverse horn.		
Applying tack coat and primer	Fall of liquid bitumen onto the				The workman should be	
coat on the road surface.	hands and legs of the workmen				with proper handgloves	
					and gum boots and full	
					sleeve shirts and full	
					pants.	
Laying of Bituminous	Fall of materials onto the workers.				The workman should be	
Macadam and SDBC on the					with proper handgloves	
road surface					and gum boots and full	
					sleeve shirts and full	
					pants.	
Compaction of the BM &	Hit by roller from behid.			A signalling marshal shold		
SDBC by road roller.			The road roller should	be provided along with the		
			have a reverse horn.	road roller.		
Pouring of Thermoplastic	Spillage of powder, fall of dust					
Powder into the burner	particles into eyes nose.				Use of safety helmet,	
trolley						Yes
					and safety goggles.	
Blinding road surface with	Fall of sand particles onto the road			No persons should sit on		
sand	surface.			the tractor trolley.	Use of safety helmet,	V
						Yes
					and safety goggles.	

	SAFETY, HEALTH & ENVIROMENT	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Measures
SEQUENCE OF BASIC STEPS	HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	adequate to mitigate the risk
Lighting and cooking of thermoplastic paint.	Gas leakage		ISI quality supply pipe and burner to be ensured and water bucket or fire extinguisher to be ensured.		Use of safety helmet, hand gloves, dust mask and safety goggles.	Yes
Laying of Thermoplastic Paint	Fall of paint onto legs and body of workers				Use of safety shoes & use precaution while working.	Yes
<b>Emergency Safety Measures (</b>	Rescue / Fire Brigade etc):	<b>Emergency Cor</b>	ntacts-Main Control Room- 2	222, 233,244, Fire- 777, 2222	57, Ambulance- 248/337,	Hospital-666
Overal Job Risk Category-	Medium					
JSA Review during PJB:	•					
Pre Job Briefing (PJB) is applic	able to all persons involved with the	e task.				
Pre Job Briefing (PJB) Acknow	ledgement: I undertake that the JSA	A is communicat	ed to me effectively			
Name	Agency's name Signature					