	Format No	o: ER 5/10- F2,	JOB SA	FETY ANALYSIS	S (JSA), IB THERMAL POWER STATION, OPGC				
Serial No.	Department	Equipment	Location	Job description: Repairing of Roads inise Main Plant & Warehouse Area at ITPS					
			Main Plant						
JSA	Signature	Reviewed &	Signature	Date of Issue	Date of revision		Revision No-		
performed		Approved by:							
by:									
	_				reference to identify the Hazard type)		_		
PHYSICAL	PHYSICAL	PHYSICAL	ELECTRICAL	CHEMICAL/ GAS	EXCAVATION	OTHERS			
HAZARDS	HAZARDS	HAZARDS	HAZARDS	HAZARDS					
Noise	Fall from height	Force (Push/Pull)	Shock/	Flammable/ Explosive	Collapse/Sliding	Fire			
			Electrocution	substances	conapse, snamg				
Radiation I	Fall (Slip/Trip)	Caught in/on or	Static electricity	Inhalation of	Underground live cable damage	Heavy Wind/Rain			
	raii (Siip/ 111p)	between	Static electricity	toxic fumes	Onderground live caste damage	neavy wind/Kain			
Confined	Fall down/below	Struck	Arcflash/ blast	Ingestion/Abso	ERGONOMICS	Dust exposure			
space .	· ·	by/against	·	rption		•			
Exposure to	Fall of Objects			Body/Eye	Poor Posture	Oil spill			
pressurised Steam/Air	from height			Contact	Poor Posture				
	C	Poor illumination	Snake/Insect		Repeatative motion	Human factor			
Contact with	Contact with		bite/Virus	Spillage					
Hot surface	moving parts		infection						
PPEs to be	Safety Shoes, Safety Helmet, Hand Gloves, Dust Mask, safety goggles, gum boots and safety shoes, welding full face mask, boiler suit.								
used									
Tools	David Marking Marking. The superplantic Daint. Misser Marking.								
required	Road Marking Machine, Thermoplastic Paint, Mixer Machine								
Important N	ote- While decidi	ng hazard contro	l measures, consid	ler hierarchy of	hazard control steps in order of preference.				
SAFETY, HEALTH & ENVIROMEN		1 & FNVIROMENT	SAFE JOB STEPS / HAZARD CONTROL MEASURES						

	SAFETY, HEALTH & ENVIROMENT	SAFE JOB STEPS / HAZARD CONTROL MEASURES				
SEQUENCE OF BASIC STEPS	HAZARDS	Elimination/ Substitution	Engineering	Administrative	PPE	adequate to mitigate the risk
Cleaning of granular vase	Fall of dust into eyes and				Use of dust mask and	
surface	inhalation of dust matter.				safety goggles.	
Carriage of materials from	Accident of vehicle, fall of man			The speed limit of the		
the hot mix plant to the work	form the vehicle, hit with other			vehicle should be below 20		
site	objects			Km/hr inside Main Plant		
				Area. The vehicle should		
				have a proper fitness		
				license.Driver should have		
				a valid driving license.		

	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				
SEQUENCE OF BASIC STEPS		Elimination/ Substitution	Engineering	Administrative	PPE	adequate to mitigate the risk
Applying tack coat and	Fall of liquid bitumen onto the				The workman should be	
primer coat on the road	hands and legs of the workmen				with proper handgloves	
surface.					and gum boots and full	
					sleeve shirts and full	
					pants.	
Laying of Bituminous	Fall of materials onto the				The workman should be	
Macadam and SDBC on the	workers.				with proper handgloves	
road surface					and gum boots and full	
					sleeve shirts and full	
					pants.	
Compaction of the BM &	Hit by roller from behid.		The road roller should have a reverse horn.	A signalling marshal shold		
SDBC by road roller.				be provided along with the		
				road roller.		
Pouring of Thermoplastic	Spillage of powder, fall of dust				Use of safety helmet,	
Powder into the burner	particles into eyes nose.				· · ·	Voc
trolley					hand gloves, dust mask	res
					and safety goggles.	
Blinding road surface with	Fall of sand particles onto the			No persons should sit on	Use of safety helmet,	
sand	road surface.			the tractor trolley.	hand gloves, dust mask	Voc
					and safety goggles.	res
					and safety goggles.	
Lighting and cooking and	Gas leakage, Fall of paint onto		ICI quality supply pipe and			
laying of thermoplastic paint.	legs and body of workers		ISI quality supply pipe and burner to be ensured and		Use of safety Shoe,	
					helmet, hand gloves,	Voc
			water bucket or fire		dust mask and safety	Yes
			extinguisher to be		goggles.	
			ensured.			
Emergency Safety Measures	(Rescue / Fire Brigade etc):	Emergency Co	ntacts-Main Control Room-	222, 233,244, Fire- 777, 222	2257, Ambulance- 248/3	37, Hospital-
Overal Job Risk Category-	Medium	•				
JSA Review during PJB:						
Pre Job Briefing (PJB) is appli	cable to all persons involved with t	the task.				
Pre Job Briefing (PJB) Acknow	vledgement: I undertake that the J	SA is communi	cated to me effectively			
Name	Name Agency's name Signature					
	•	•				