Content Cont	Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC												
Civil Road section Signature Revision Signature Revision Signature Revision Revis	Serial No.	Department	Equipment Location Job description:										
Signature Approved by Signature Approved by P.B.Mohanta B.Padhy		Civil	Road section	СНР	"Construction of Road from DAV,Odia School to Adapada BM Road"								
HAZARD EXT/TYPE [For reference to identify the Hazard type] PHYSICAL NAZARDS PHYSICAL	JSA performed by:		Reviewed &	Signature	Date of Issue Date of revision				Revision No-				
PHYSICAL HAZARDS Noise Fall from height Force (Push/Push) Shock/ Fall circultum Fall circultum	P.B.Mohanta		B.Padhy										
MAZARDS MAZARDS MAZARDS MAZARDS MAZARDS MAZARDS MAZARDS MAZARDS MAZARDS Mazard Mazards Mazar													
Radiation Fall (Silp/frip) Capts Inform Regint Force (Purs)/Pull Electrocution substances Collapse/Shilling Fire Collapse/Shilling Fire Collapse/Shilling Fire Collapse/Shilling Fire Collapse Fire Collapse/Shilling Fire Collapse/Shilling Fire Collapse Fir	PHYSICAL HAZARDS	PHYSICAL HAZARDS						OTHERS					
Struck by/against Stru	Noise	Fall from height	Force (Push/Pull)					Fire					
Exposure to pressurised Steam/Air Elian of Objects from Raize (Hot/Cold) Enghand Port (Hot/Cold) Engha	Radiation	Fall (Slip/Trip)				Underground live cable damage		Heavy Wind/Rain					
Management Meta/Cold Mazards Sandar Meta/Cold Mazards Sandar Meta/Cold Mazards Sandar Meta/Cold Mazards Sandar Meta/Cold	Confined space	·	Struck by/against Arcflash/ blast		Ingestion/Absorption	ERGONOMICS		Dust exposure					
Contact with Hots surface Contact with Hots surface Por Illumination ports Intection press to be used Safety helmet, shoe, hand gloves, earplug, dustmask, googles, leather haand gloves, appron, face shield etc Tools required Jhadu, Belcha, Phowrah, Gambla etc.	Exposure to pressurised Steam/Air			HAZARDS	Body/Eye Contact	Poor Posture		Oil spill					
Tools required Jhadu, Belcha, Phowrah, Gambla etc.	Contact with Hot surface		Poor illumination	bite/Virus	Spillage Repeatative motion		Human factor						
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	PPEs to be used	Safety helmet, shoe, har	nd gloves, earplug,	dustmask, google	s, leather haand glov	es, appron, face shield et	C						
SEQUENCE OF BASIC STEPS SAFETY, HEALTH & ENVIROMENT HAZARDS 1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 1) Cutting of hand/Hand injury 2) Dressing of pot holes SAFETY, HEALTH & ENVIROMENT HAZARD CONTROL MEASURES Emimitation/Substitution Ensure proper license of driver. Speed limit should me 10 km/hr during transporting in loading condition. Yes 1) Cutting of hand/Hand injury 1) Cutting of hand/Hand injury 1) Cutting of hand/Hand injury 2) Dressing of pot holes SAFE JOB STEPS / HAZARD CONTROL MEASURES Administrative PPE Are control Measures adequate the ensk (Yes/No) Emimitation/Substitution Ensure proper license of driver. Speed limit should me 10 km/hr during transporting in loading condition. Yes 1) Cutting of hand/Hand injury na Use correct and tested tools. Use traffic one to control traffic hazard. 2) Traffic hazard/Road accident na na Use nose mask and Ves													
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1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 1) Failure of vehicle due to overloading is strictly prohibited. 1) Failure of vehicle due to overloading is strictly prohibited. 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle periodically. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 1) Failure of vehicle due to overloading is strictly prohibited. 2) Struck by/against 2) Failure of vehicle due to overloading is strictly prohibited. 2) Failure of vehicle due to overloading is strictly prohibited. 2) Failure of vehicle due to overloading is strictly prohibited.					SAFE JOB STEPS / HAZARD CONTROL MEASURE			RES					
1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 1) Failure of vehicle due to overloading/unsafe driving/mechanical failure. 1) Transportation of materials 2) Struck by/against 1) Cutting of hand/Hand injury 2) Dressing of pot holes 1) Failure of vehicle due to overloading the fitness of the vehicle periodically. Over loading is strictly prohibited. 1) Country by/against 1) Country by/against 1) Cutting of hand/Hand injury 1) Cutting of hand/Hand injury 1) Country by/against 1) Cutting of hand/Hand injury 1) Use correct and tested tools. 1) Use traffic one to control traffic hazard. 2) Dressing of pot holes 3) Contact with dust particles and a page of the periodically. Over loading is strictly and by/against and license of driver. Speed limit should me 10 km/hr during transporting in loading condition. Yes 1) Cutting of hand/Hand injury 1) Use correct and tested tools. 1) Use traffic one to control traffic hazard. 2) Traffic hazard/Road accident 1) Contact with dust particles and page of the periodically. 2) Use nose mask and the very by/against and the very b						Engineering	Administrative	PPE	Are control Measures adequate to mitigate the risk (Yes/No)				
1) Cutting of hand/Hand injury na Use correct and tested tools. 1) Cutting of hand/Hand injury na Use correct and tested tools. 2) Traffic hazard/Road accident na na Use traffic one to control traffic hazard. 2) Dressing of pot holes 3) Contact with dust particles na na na Use nose mask and Ves	1) Transportation of materials		overloading/unsafe		na	vehicle periodically. Over loading is strictly	license of driver. Speed limit should me 10 km/hr during transporting in loading		Yes				
2) Dressing of pot holes 2) Traffic hazard/Road accident na na used. 2) Dressing of pot holes 3) Contact with dust particles na na na used. 4 Use traffic one to control traffic na Yes hazard. Use nose mask and Yes na na na use na na use			2) Struck by/against		na	Work carefully.	Keep distance from the working area.	na	Yes				
2) Traffic hazard/Road accident na na control traffic na Yes 2) Dressing of pot holes 3) Contact with dust particles na na na na Use nose mask and Yes			1) Cutting of hand/Hand injury		na		na		Yes				
3) Contact with dust particles na na na na Ves	2) Draceing of not holes	2) Traffic hazard/Road accident		na	na	control traffic	na	Yes					
	2) Diessing of poetioies		3) Contact with dust particles.		na	na	na		Yes				
4) Struck by against na Work carefully. na na Yes		4) Struck by against		na	Work carefully.	na	na	Yes					
Take hot work permit before start the hot work. Deploy a fire watcher. Fire extinguisher and water bucket shall be kept at site. Yes			1) Fire / Burn haz	ard	na	before start the hot	watcher. Fire extinguisher and water bucket shall	na	Yes				

Preparation of premix, seal coat and spreading them after transporting to the road followed by Hot work and rolling.	2) During mixing/fueling/transporting/loadin g hot mix may come and contact with any body parts.	na	Work very cautiosly during working with hot bitumen. Try to wear	Experienced	Use safety helmet, shoe/gum boot, leather hand gloves, googles and dust mask.	Yes					
	3) Traffic hazard	na	na	Barricade the working road area.	na	Yes					
	4) Contact with dust & bitumen fume.	na	na	na	Use safety googles and nose mask properly.	Yes					
	5) Foreign material may come and stricke to body.	na	na	Barricade the working road area.	na	Yes					
Emergency Safety Measures (Rescue/Fire Brigade etc):			Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666								
Overal Job Risk Category- (High/Medium/Low):											
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	Name Agency's name Signature										
	+										