

JOB SAFETY ANALYSIS (JSA)

FORMAT NO: ER 5/10– F2.

Department Civil, Main Plant	Equipment BTG AREA	Job description: "Evacuation of Ash from BTG area & disposal followed by depositing at designated area" OPGC-II.		JSA Serial No
Company	Orissa Power Generation Corporation Ltd.	Date of Issue		
Location		Period of work	Reviewed By (T.L): Anjan Sahu Sr. Manager (Civil)	Signature
Analysis By	Name :	Designation:	Signature :	Recommended By (S.O): Signature
Name of associated persons	OPGC: Contractor.....	Approved By (Factory Manager):		Signature
PPE Required	Safety shoes, Helmet, dust mask, safety glass	Revision By :		Signature
Tools Required	Excavator, Hyva, Dozer, Roller, Sprade, crowbar, hosepipe etc.	Date of Rev :		
SEQUENCE OF BASIC STEPS		IDENTIFIED SAFETY, HEALTH & ENVIROMENT HAZARDS	RECOMMENDED SAFE JOB STEPS AND CONTROL PROCEDURE	
1. Loading of ash from silo into vehicle.		1. Blowing of ash. Inhalation of ash.		
(Loading & Transportation of ash from silo to filling area and earth from borrow area to work site.)		2. Air pollution due to fugitive emission. 3. Tilting of excavator. Injury to workmen.	2. Excavation to be done carefully. Rigidity of area soil near excavator post to be ensured.	

<p>2. Transportation of ash to site by Vehicles and unloading the same.</p> <p>3. Reversing the Vehicle on the narrow road.</p>	1. Hitting with the Vehicles/ persons during loading.	1. Loading to be done carefully. No person will be allowed to stay within the swing area of boom of excavator. Vehicles will be fixed with back gear alarms.
	2. Tilting of vehicle as the road is narrow at places.	2. Adequate Supervision to be made.
	3. Road accident	3. All vehicles will have valid documents like R.C. Book, Insurance, Fitness certificate etc.
	4. Blowing of dust due to movement of vehicle.	4. The driver will have valid driving licence and shall not drive in alcoholic condition.
	5. Blockage of road.	5. The vehicle should limit the speed to 10 KM/Hr inside plant.
		6. The driver must be accompanied with an assistant/helper.
		7. Sprinkling of water over the road is to be ensured.
		8. Vehicle should not be parked on the road.
		9. The braking system should be perfect.
	10. Tyre in good condition.	
	11. While parking the vehicle for loading/unloading, stoppers should be provided on both front & rear wheel.	
	12. Safety triangle is to be fitted on the front side of vehicle for distinct visibility.	
	13. The data of the vehicle should be in good condition and there should not be any holes/ cracks/looseness in the body of the data through which ash will come out & fall on the road.	
	14. The ash should be covered with tarpoline/polythene while transporting.	
	15. The vehicles should move on specific route as approved by Engg.-in-charge	
	16. Driver's eye test to be carried out.	
4. Maintenance of vehicles.	1. Oil spillage/ leakage.	1. Defect is to be attended as early as possible.
		2. Spillage of oil is to be contained & cleaned.

5. Review the job while execution	1. Identify while working	1. Take appropriate action.
6. Rolling by Vibro roller.	1 Sliding of roller	1. The roller should not be parked/ kept on the slope
	2. Hiting	2. No worker should be present in the direction of movement of roller
<p>Emergency Safety measure for the job if any: First-Aid box should be kept at site. Emergency telephone No. Fire - 777,222257 and Hospital 600,222243 should be intimated to the workmen. This should be discussed with all. A responsible person should be present throughout the working hours for supervision and carrying out the instruction of Engineer-in-charge at any instant of time. No workmen will be allowed in alcholic condition or without safety PPEs in the working area. Consider hazard during summer drinking water, ORS powder, Rest shed etc. should be provided at site.</p>		