

Format No: ER 5/10– F2, JOB SAFETY ANALYSIS (JSA), IB THERMAL POWER STATION, OPGC							
Serial No.	Department	Equipment	Location	Job description: Cutting and Cleaning of Wild grass inside switchyard, AD Pipeline and			
	Civil	Main Plant					
JSA performed by:	Signature	Reviewed & Approved by	Signature	Date of Issue	Date of revision		Revision No-
HAZARD TEXT/TYPE (For reference to identify the Hazard type)							
PHYSICAL HAZARDS	PHYSICAL HAZARDS	PHYSICAL HAZARDS	ELECTRICAL HAZARDS	CHEMICAL/ GAS	EXCAVATION	OTHERS	
Noise	Fall from height	Force (Push/Pull)	Shock/ Electrocutation	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/A bsorption	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 helmet, gum boots, safety shoe, safety goggles, hand gloves, face shield.						
Tools required	Bush Cutting Machine, Spades, Sickle, Spades.						
Important Note- While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference.							
SEQUENCE OF BASIC STEPS	SAFETY, HEALTH & ENVIROMENT HAZARDS	SAFE JOB STEPS / HAZARD CONTROL MEASURES				Are control Measures adequate to mitigate the risk (Yes/No)	
		Elimination/ Substitution	Engineering	Administrative	PPE		
	1) Fall (Slip/Trip)	N.A	N.A	Inspect the work site properly before starting of work.	N.A	yes	
	2) Snake / insect bite	N.A	Use a long stick and hit it on the bush before entering inside the bush/wild grass area or before cutting.	Spread phenol/bleaching powder in the area of work before start the work.	Use safety goggles, gumboot and dust mask always during working.	yes	

1) Cutting of bush/grass manually and using grass cutting machine	3) Hand injury	N.A	Use correct tools for cutting.	N.A	Use hand gloves.	yes
	4) Contact with electrical equipments	N.A	Keep safe distance from all types of electrical wires, cables, panels, equipments and do not enter the prohibited areas without proper PTW.	N.A	N.A	yes
	5) Hit by with flying objects, small stones etc	N.A	N.A	Ensure no persons are in the nearby vicinity where the grass cutting machine is in operation.	N.A	yes
	6) Cutting of body parts using machine.	N.A	Do not remove the guard of the bush cutting machine while in operation	Deploy trained workmen to using grass cutting machine.	N.A	yes
Housekeeping	Improper Housekeeping	N.A	N.A	Sweep the entire area clean after the grass cutting work and remove at excessive grass the designated disposal place.	N.A	yes
Emergency Safety Measures (Rescue/Fire Brigade etc):		Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance-248/337, Hospital-666				
Overall Job Risk Category- (High/Medium/Low) :	High					
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	Agency's name	Signature				