



ODISHA POWER GENERATION CORPORATION LTD
IB THERMAL POWER STATION
BANAHARPALLI

HAZARD IDENTIFICATION & RISK ASSESSMENT (OCCUPATIONAL HEALTH & SAFETY)

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Sl. No.	Responsible Deptt.	Activity	Description of Hazard	Risk	Direct/ in-direct	Existing Control	Qualitative Criteria		Quantitative Criteria				Significant/Non significant	Acceptable/Not Acceptable	Hierarchy of control	Additional control	Control Reference	Residual Risk		
							Legal	Interested party concern	Likelihood	Severity	Risk Level	Likelihood						Severity	Risk Score	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
		Testing of steel structure	Exposure to noise>85db	Physical discomfort	Direct	SOP / CHP-06,EM4/45,EM-4/ 23	N	N	1	1	1	NS	A	NA	NA	NA	NA	NA		
			Slippage due to oily floor	Injury	Direct	SMP/CHP-05,EM4/25 & EM-4/8	N	N	1	1	1	NS	A	NA	NA	NA	NA	NA		
			Fire due to short circuit in electrical equipments	Burn Injury	Direct	SOP / CHP-11,EM-4/30,EM-4/83	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Fall while walking on the gratings	Injury / fractures	Direct	SOP / CHP-11,EM-4/79,EM-4/25	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Hit with flying broken parts	injury due to striking objects	Direct	EM-4/45,EM-4/25	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA		
			Electrical hazard	Electrocution	Direct	EM-4/30,EM-4/35	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Slip due to water logging on the floor	Injury	Direct	EM-4/25,EM-4/45	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA		
			Fall from height	Injury/Disablement/Fatal	Direct	EM-4/79,EM-4/7,EM-4/35	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Accidents due to poor visibility or poor illumination.	Injury/Fatal	Direct	SOP / CHP-07,EM-4/81	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA		
			Electric shock	Hazards due to electric shock	Direct	EM 4/353, EM 4/30	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Skin contact with oil during maintenance activities.	Skin irritation	Direct	EM-4/45,EM-4/25,EM-4/10	N	N	2	1	2	NS	A	NA	NA	NA	NA	NA		
			Exposure to flying of broken objects / broken parts of rotating equipments.	Injury/Disablement	Direct	SOP / CHP-07,EM-4/82,EM-4/92	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA		
			Hitting of coal lumps.	Injury	Direct	SOP / CHP-07,EM-4/45	N	N	2	1	2	NS	A	NA	NA	NA	NA	NA		

			Trip hazard due to obstruction at entrance of transfer house TH4A by newly laid fire fighting line	Injury	Direct	SOP/CHP-09,EM4/29,EM-4/25	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA	NA
			Snake bite by poisonous snake	Fatal	Direct	EM 4/43,EM-4/25	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Unable to stop Conveyor belt quickly on emergency leading to accident	Fatality/ Injury	Direct	Scheduled Check, Preventive maintenance	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Falling of coal lumps from conveyor belt crossing over the roads /walk way	Serous injury/LTI	Direct	SOP/CHP-07,EM-4/72	N	Y	3	3	9	S	NS	NA	NA	NA	3	1	3
			Breaking/failure of scaffolding	Injury due to falling	Direct	EM 4/7	N	N	2	1	2	NS	NA	NA	NA	NA	NA	NA	NA
		Testing of concrete structure	Collapsing of earth	Injury	Direct		N	N	2	2	4	NS	NA	NA	NA	NA	NA	NA	NA
			Falling into trench	Injury leading to fractures	Direct		N	N	2	2	4	NS	NA	NA	NA	NA	NA	NA	NA
			Falling of dust in eye while concrete cutting	Eye irritation	Direct		N	N	1	2	2	NS	NA	NA	NA	NA	NA	NA	NA
			Exposure to noise>85db	Physical discomfort	Direct	SOP / CHP-06,EM4/45,EM-4/ 23	N	N	1	1	1	NS	A	NA	NA	NA	NA	NA	NA
			Slippage due to oily floor	Injury	Direct	SMP/CHP-05,EM4/25 & EM-4/8	N	N	1	1	1	NS	A	NA	NA	NA	NA	NA	NA
			Fall while walking on the gratings	Injury / fractures	Direct	SOP / CHP-11,EM-4/79,EM-4/25	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Hit with flying broken parts	injury due to striking objects	Direct	EM-4/45,EM-4/25	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA	NA
			Electrical hazard	Electrocution	Direct	EM-4/30,EM-4/35	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Slip due to water logging on the floor	Injury	Direct	EM-4/25,EM-4/45	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA	NA
			Fall from height	Injury/Disablement/Fatal	Direct	EM-4/79,EM-4/7,EM-4/35	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Accidents due to poor visibility or poor illumination.	Injury/Fatal	Direct	SOP / CHP-07,EM-4/81	N	N	1	2	2	NS	A	NA	NA	NA	NA	NA	NA
			Electric shock	Hazards due to electric shock	Direct	EM 4/353, EM 4/30	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Skin contact with oil during maintenance activities.	Skin irritation	Direct	EM-4/45,EM-4/25,EM-4/10	N	N	2	1	2	NS	A	NA	NA	NA	NA	NA	NA
			Hitting of coal lumps.	Injury	Direct	SOP / CHP-07,EM-4/45	N	N	2	1	2	NS	A	NA	NA	NA	NA	NA	NA
			Snake bite by poisonous snake	Fatal	Direct	EM 4/43,EM-4/25	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	3
			Unable to stop Conveyor belt quickly on emergency leading to accident	Fatality/ Injury	Direct	Scheduled Check, Preventive maintenance	N	N	1	3	3	NS	A	NA	NA	NA	NA	NA	NA
			Falling of coal lumps from conveyor belt crossing over the roads /walk way	Serous injury/LTI	Direct	SOP/CHP-07,EM-4/72	N	Y	3	3	9	S	NS	NA	NA	NA	3	1	
			Breaking/failure of scaffolding	Injury due to falling	Direct	EM 4/7	N	N	2	1	2	NS	NA	NA	NA	NA	NA	NA	NA