



Odisha Power Generation Corporation

Ib Thermal Power Station

Docu 1

Hazard Identification & Risk Assessment (HIRA)

w Date 15.07.2023

OPGC
Power for Progress

Function:	Renovation work of D-type quarters (Phase-1)				
REPRESENTATIVE	NAME	DESIGATION		SIGNATURE	Department
Management					
Worker					
Safety					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SI No	Activities	Normal/Abnormal/ Emergency	Direct / Indirect	Hazard	Risk	Existing Control Measures	level				Hierarchy of Control Proposed control measures(if anv) Prog./Procedure Ref.	Level							
							Legal	Likelihood/ Exposure	Severity	Risk score(8x9x10)		Acceptable (Y/N)	Legal	Likelihood/ Exposure	Severity	Risk score	Acceptable (Y/N)		
Formula line (Please copy formula when lost in subsequent rows)										0	Y	NA	NA	NA	NA	0	0	0	Y
1	Cleaning Activity	normal	direct	Exposure to dust	Respiratory Problems	Use of Dust Mask	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
				Exposure to micro organisms / bacteria during cleaning or repair of toilets / urinals / pipelines	Health hazards due to infection	Use of adequate PPEs (hand globes, gun boot, apron, etc.).	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
2	Concrete / cement Plaster work at height	normal	direct	Fall from height	Injury	Use of Fall protection system	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y

				Exposure to dust	Respiratory problems	Use of Dust Mask	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
				Contact with concrete/ cement plaster	Skin irritation	Use of adequate PPEs (hand globes, apron, etc.).	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
				Exposure to dust (cement)	Eye irritation	Use of Safety glasses	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
3	Excavation of Soil	normal	direct	Collapsing of earth	Injury	use of mechineries for excavation,	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y
				Exposure to dust	Respiratory problems	Use of Dust Mask	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
4	Movement of Dumpers/ Dozers/ tractors/ tankers & other heavy vehicles during working hour	normal	direct	Exposure to noise>85db during running of vehicles	Hearing impaired	Use of adequate PPEs (ear plug).	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
				Exposure to vehicular emission during working of heavy vehicles & machineries	Physical Discomfort, Eye injury	use of mask, eye glasses	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
5	Painting Work	normal	direct	Falling of objects from height	Injury	Adequate PPEs, Fall protection system	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y

				Inhalation of fumes	Respiratory problems	use of mask, eye glasses	NA	3	1	3	Y	NA	NA	NA	NA	3	1	3	Y
				Falling from height	Injury	Adequate PPEs, Fall protection system	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y
				Collapse/failure of scaffolding	Injury	tagging, certified by competent person,	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y
6	Stacking of Construction Materials	normal	direct	Road accident due to dumping of construction material and work on road	Injury	Blocking of Road, site of construction, work to permit at road side	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y
7	Transportation of Debris	normal	direct	Faliure of vehicle due to overloading/ unsafe driving /mechanical failure	Accident	Vehicle Fitness, Driver lisencc,Permit to work, JSA, PJB	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y
8	Work at Height (all type of work like Civil, Plumbing, tree trimming etc)	normal	direct	Fall from height due to failure on use of substandard, untested or damaged ladder	Fatality/ Injury	Fall protection system, adequate PPEs, work to permit, JSA, PJB	NA	1	3	3	Y	NA	NA	NA	NA	1	3	3	Y