

ODISHA POWER GENERATION CORPORATION LTD

IB THERMAL POWER STATION

BANAHARPALLI

HAZARD IDENTIFICATION & RISK ASSESSMENT (OCCUPATIONAL HEALTH & SAFETY)

FORMAT NO: ER 5/10-F1 FORMAT REVISION NO: 02/00 **DOCUMENT REVISION STATUS: R-21 DOCUMENT REVISION DATE : 20.05.2016** alitative Crit **Quantitative Criteria Residual Risk** Significant/Non significant concern Hierarchy of control **Control Reference** Responsible Description of Additional control SI. No. Activity Risk Existing Control Interested party Deptt. Hazard Direct/ in-direct Likelihood **Risk Score** Likelihood Risk Level Severity Severity Legal 6 7 8 12 13 14 15 16 17 18 19 1 2 3 4 5 9 10 11 Proper supervision.Isolation Licensed and with LOTO provision, EM-00000 experienced Local earthing using Maintenance Shock.Burn 1 F/M Electrocution Direct Ν Υ 2 4 8 S NA workforce to be 1 4 4 of 33kV line injury,Fatal discharge rod, HT arc engaged for flash suit, HT gloves, specific job helmet, safety shoes, insulation mat, goggles Proper supervision.FRP Experienced ladder with rubber toe, workforce to be Full body harness with engaged for double lanyard and specific job. Only medically fit persons shall be First aid injury, shock absorber, fall Ν Υ S NA Fall from height Internal injury, Direct 2 4 8 1 4 4 arrester, helmet, safety hammorage, fatal shoes, gloves, goggles, engaged without 3-point contacts to be influence of drugs maintained throughout or alcohol. the work Only tested and certified tools and tackles to be used. Working area shall Only authorised EM-00000 First aid injury, be cordened off. Pole experienced Fall of object Internal injury, Direct Ν Υ s NA 2 3 6 1 3 3 verticality must be persons shall hammorage, fatal ensured throughout the work at site. work. Helmet, safety shoes, goggles

			Slip/trip	First aid injury, Internal injury		Safety shoes, helmet, hand gloves, goggles	N	Y	2	2	4	NS	NA	Only authorised experienced persons shall work at site.	EM- 00000	1	2	2
			Extreme/ Unhealthy condition (Rain,thunderstorm ,heavy wind,high temperature, poor illumination)	Electrocution,Fall of object, Lightening , strike, Sunstroke, slip/trip, first aid injury, internal injury, fatal	D	Safety shoes, helmet, hand gloves, goggles	N	Y	2	4	8	S	NA	Check weather forecast before starting job	EM-00000	1	2	2
			Biohazard (Snake, Monkey, insect and other wild creatures)	First aid injury, Internal injury,fatal		Safety shoes, helmet, hand gloves, goggles, gum boots, high beam torch	N	Y	2	3	6	S	NA	Housekeeping of all working areas on regular basis. 360° inspection of the area prior to work.	EM-00000	1	3	3
			Caught in between (Pinch, Cut by sharp edge, Bruise)	First aid injury, Internal injury	D	Proper supervision.Only tested and certified tools and tackles to be used. Working area shall be cordened off. Helmet, safety shoes, goggles, Working area shall be cordened off.	Ν	Y	2	4	8	S	NA	Only authorised experienced persons shall work at site.	EM-00000	1	4	4
2	F/M	Maintenance of Street light	Electrocution	Shock,Burn injury,Fatal	Direct	Proper supervision,zero voltage to be ensured during work,gloves, helmet,safety shoes,goggles,	Z	Y	2	4	8	S	NA	Licensed and experienced workforce to be engaged for specific job. Movement of ladder near overhead power line to be done keeping safe ground clearance.	EM-00000	1	4	4
			Fall from height	First aid injury, Internal injury, hammorage, fatal	Direct	Proper supervision.FRP ladder with rubber toe, Full body harness with double lanyard and shock absorber, fall arrester, helmet, safety shoes, gloves, goggles, 3-point contacts to be maintained throughout the work	Z	Y	2	4	8	S	NA	Manlifter to be used. Experienced workforce to be engaged for specific job. Only medically fit persons shall be engaged without influence of drugs or alcohol.	EM-	1	2	2

			Fall of object	First aid injury, Internal injury, hammorage, fatal	Direct	Pole verticality must be ensured throughout the work. Helmet, safety shoes, goggles, gloves	N	Y	2	3	6	s	NA	Manlifter to be used. Only authorised experienced persons shall work at site.	EM-0000	1	2	2
			Slip/trip	First aid injury, Internal injury	D	Safety shoes, helmet, hand gloves, goggles	N	Y	2	2	4	NS	NA	Only authorised experienced persons shall work at site.	EM-00000	1	2	2
			Extreme/ Unhealthy condition (Rain,thunderstorm ,heavy wind,high temperature, poor illumination)	of object, Lightening ,	D	Safety shoes, helmet, hand gloves, goggles	Ν	Y	2	4	8	S	NA	Check weather forecast before starting job	EM-0000	1	2	2
			Biohazard (Snake, Monkey, insect and other wild creatures)	First aid injury, Internal injury,fatal	D	Safety shoes, helmet, hand gloves, goggles, gum boots, high beam torch	N	Y	2	3	6	S	NA	Housekeeping of all working areas on regular basis. 360° inspection of the area prior to work.	EM-00000	1	3	3
			Caught in between (Pinch, Cut by sharp edge, Bruise)	First aid injury, Internal injury	D	Proper supervision.Only tested and certified tools and tackles to be used. Working area shall be cordened off. Helmet, safety shoes, goggles, Working area shall be cordened off.	Ν	Y	2	4	8	s	NA	Only authorised experienced persons shall work at site.	EM-0000	1	4	4
3	F/M	Day-to-day colony electrical maintenanc e	Electrocution	Shock,Burn injury,Fatal	Direct	Proper supervision.Isolation with LOTO provision, Local earthing using discharge rod, HT arc flash suit, HT gloves, helmet, safety shoes, insulation mat, goggles	N	Y	2	4	8	s	NA	Licensed and experienced workforce to be engaged for specific job	EM-00000	1	4	4

	Fall from height	First aid injury, Internal injury, hammorage, fatal	Direct	Proper supervision.FRP ladder with rubber toe, Full body harness with double lanyard and shock absorber, fall arrester, helmet, safety shoes, gloves, goggles, 3-point contacts to be maintained throughout the work	N	Y	2	4	8	S	NA	Experienced workforce to be engaged for specific job. Only medically fit persons shall be engaged without influence of drugs or alcohol.	EM-00	1	4	4
	Fall of object	First aid injury, Internal injury, hammorage, fatal	Direct	Only tested and certified tools and tackles to be used. Working area shall be cordened off. Pole verticality must be ensured throughout the work. Helmet, safety shoes, goggles	N	Y	2	3	6	S	NA	Only authorised experienced persons shall work at site.	EM-00000	1	3	3
	Slip/trip	First aid injury, Internal injury	D	Safety shoes, helmet, hand gloves, goggles	N	Y	2	2	4	NS	NA	Only authorised experienced persons shall work at site.	EM-00000	1	2	2
	Extreme/ Unhealthy condition (Rain,thunderstorm ,heavy wind,high temperature, poor illumination)	Electrocution,Fall of object, Lightening , strike, Sunstroke, slip/trip, first aid injury, internal injury, fatal	D	Safety shoes, helmet, hand gloves, goggles	N	Y	2	4	8	S	NA	Check weather forecast before starting job	EM-0000	1	2	2
	Biohazard (Snake, Monkey, insect and other wild creatures)	First aid injury, Internal injury,fatal	D	Safety shoes, helmet, hand gloves, goggles, gum boots, high beam torch	N	Y	2	3	6	S	NA	Housekeeping of all working areas on regular basis. 360° inspection of the area prior to work.	EM-00000	1	3	3
	Caught in between (Pinch, Cut by sharp edge, Bruise)	First aid injury, Internal injury	D	Proper supervision.Only tested and certified tools and tackles to be used. Working area shall be cordened off. Helmet, safety shoes, goggles, Working area shall be cordened off.	N	Y	2	4	8	S	NA	Only authorised experienced persons shall work at site.	EM-00000	1	4	4