



ODISHA POWER GENERATION CORPORATION LTD

IB THERMAL POWER STATION

BANAHARPELLI

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	Hierarchy of control	Additional control	Control Reference	Residual Risk		
							Legal	Interested party concern	Likelihood	Severity	Risk Level					Likelihood	Severity	Risk Score
1	F/M	Maintenance of 33kV line	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, hemorrhage, 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-00000	1	4	4
			Fall of object	First aid injury, Internal injury, hemorrhage, fatal	Direct	Only tested and certified tools and tackles to be used. Working area shall be cordoned 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-00000	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
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,	N	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, hammoreage, 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	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-00000	1	2	2

			Fall of object	First aid injury, Internal injury, hamorage, 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-00000	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)	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	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
3	F/M	Day-to-day colony electrical maintenance	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, hamorage, 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-00000	1	4	4
			Fall of object	First aid injury, Internal injury, hamorage, fatal	Direct	Only tested and certified tools and tackles to be used. Working area shall be cordoned 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-00000	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 cordoned off. Helmet, safety shoes, goggles, Working area shall be cordoned off.	N	Y	2	4	8	S	NA	Only authorised experienced persons shall work at site.	EM-00000	1	4	4