

	MEDUPI/KUSILE POWER STATION EXCITATION SYSTEM REPLACEMENT PROJECTS SPECIFIC BASELINE RISK ASSESSEMENT	Template Identifier	240-73416879	Rev	2
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MEDUPI POWER STATION IDENTIFIED HAZARDS AND RISK FOR PROJECT BASELINE RISK ASSESSEMENT						
#	LIST OF ACTIVITIES	HAZARD	RISK			
1	Site establishment	Working in awkward position/Ergonomics	Musculoskeletal disorders			
2	General office activities	Employees spent most of the shift in the office environment and are exposed to artificial illumination.	Fatigue/headaches/eye strain			
3	General office activities	inadequate body posture and position	Fatigue/musculoskeletal disorders			
4	Transportation of the excitation system and other related components.	Mechanical motions	Caught between Collision Knocked/bumped			
5	offloading of excitation system	Mechanical motions	Caught between, Collision, Knocked/bumped			
6	Site acceptance tests and Inspection	Electrical	shock, burns			
6,1	Visual Inspection	Electrical	shock, burns			
6,2		Mechanical	Caught between Collision Knocked/bumped			
7	Disconneting old cables (Low voltage cables and C&I cables)	high ambient temperatures	fatigue, heat exhaustion,			
8	Disconneting AC&DC busbars	high ambient temperatures	fatigue, heat exhaustion,			
9	Remove mounting bolts aorund and inside the excitation using electric/pnuematic tools	high ambient temperatures, Dust, noise	fatigue, heat exhaustion respitory diseases Noise Induced Hearing Loss (NIHL)			
10	Removal of the excitation system panels from the room	high ambient temperatures, Dust, noise	fatigue, heat exhaustion respitory diseases Noise Induced Hearing Loss (NIHL)			
11	Transport the old excitation system to stores	Mechanical motions	Caught between Collision Knocked/bumped			
12	Cleaning of the Excitation room (housekeeping) in preparing to install new excitation panels	high ambient temperatures, Dust, noise	fatigue, heat exhaustion respitory diseases Noise Induced Hearing Loss (NIHL)			
13	Transport of new excitation to the units	Mechanical motions	fatigue			
14	Mechanical installation of excitation	Mechanical motions Dust Noise	fatigue, heat exhaustion respitory diseases Noise Induced Hearing Loss (NIHL)			
15	Connecting of all interfacing cables	Faulty equipment, electrical faults	Equipment failure leading to inaccurate results or hazards			
16	Cold commissioning	Faulty equipment, electrical faults	Equipment failure leading to inaccurate results or hazards			
17	Electrical tests	Faulty equipment, electrical faults	Equipment failure leading to inaccurate results or hazards			
18	Hot commisioning	Faulty equipment, electrical faults, Explosion	Equipment failure leading to inaccurate results or hazards thermal burns, Asphyxiation			
19	Daily routine activites	Use of hand tools/defective hand tools	Hand and finger injuries			
20	Daily routine activites	Slippery surfaces	Falling Sustain servere injuries - fatality			
21	Daily routine activites	Sharp edges	Hand and Finger Injuries			
22	Working at height	Defective FAS equipment	Fall from height sustaining injuries			

23	Working at height	Incompetent personnel	Fall from height sustaining injuries
24	Working at height	Substandard anchor points	Fall from height sustaining injuries
25	Handling and lifting of Equipment	Restricted movement due to space limitation	Various injuries due to Bumping into equipment.
26	Handling and lifting of Equipment	Pinch Point	Hand and finger injuries
27	Handling and lifting of Equipment	Incorrect lifting technique	Serious body injuries and loss of limb
28	Handling and lifting of Equipment	Manual Handling	Musculoskeletal disorders
29	Handling and lifting of Equipment	Slips,trips and falls	Serious body injuries
30	Plant Inspection and Plant Walk Down	Poor Housekeeping	Seriuos body injuries
31	Plant Inspection and Plant Walk Down	Hazards from nature	Snake bite,Bee sting,animal attack
32	Plant Inspection and Plant Walk Down	Falling objects	Serious body injuries
33	Plant Inspection and Plant Walk Down	Poor Illumination	Bump against
34	Plant Inspection and Plant Walk Down	Flaying particles	Eye damages or eye injuries
35	Plant Inspection and Plant Walk Down	Uneven Surface	Slips,trips and falls injuries
36	Plant Inspection and Plant Walk Down	Working in awkward position/Ergonomics	Musculoskeletal disorders

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