



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM**



Issue No. 01	Rev. No: 00	Effective Date: 01.05.2016	SOP/Elect /40
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Emergency preparedness during electrical power block out			

Scope/Purpose : This procedure to establish Emergency preparedness during electrical power block out.

Responsibility : Shift Supervisor – Electrical

Accountability : Head-Electrical

PPE:

1. Safety shoe/Boot,
2. Safety Helmet
3. Rubber Gloves

Tools:

1. Insulated tools

Hazard Analysis:

Risks associated

Electric shock
Flashover

Mitigating Measures

Ensuring proper SOP & operating tools
Ensuring SOP for switching operations

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs
3. SOP for switching operations

Procedure:

- a) Get first information about the block out from concerned (CPP).
- b) Give information about black out to concerned (HOD-Electrical).
- c) Get concurrence to get start-up supply (EB or DG).
- d) Get concurrence from HOD for switching operations required which are not covered in normal operations but required specifically.
- e) Give information to CPP regarding source start-up supply.
- f) Give information to DG set in-charge to start the DG sets, if required.



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- g) Give Ensure healthiness of required condition of EB & CPP supply sources.
- h) Ensure circuit breaker ON/OFF conditions before getting power supply.
- i) Give power supply to sections based on priority (Kiln, Lift, Colony, etc).
- j) Ensure running conditions of DG sets.
- k) Ensure restoration of CPP supply and synchronize.
- l) Normalize all feeders and after getting CPP supply.
- m) Give clearance to CCR for operations.
- n) Register block out conditions, root cause & switching operations carried out in shift log book.

Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the safety department or call Emergency number 251 / 222 / 555 /9842994062.

Records/Annexure:

1. JSA is enclosed below.



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SOP For Emergency preparedness during electrical power block out

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Emergency preparedness during block out	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician	Supervisor: Shift Supervisor	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety shoe, safety helmet & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Switching operations	Electric shock	Usage of Safe operating procedure & tools	Contact with live parts	Ensure updated SOPs & certified tools are used
	Flashover	Usage of Safe operating procedure	Existence of back feeding supply	Ensure lock mechanism are in-tact
	Breaker handle bouncing	Usage of proper designated tools	Damaged operating tools	Ensure certified tools are used
Start-up of DGs	Flashover	Ensure healthiness of all parameters	Failure of protection circuit	Ensure healthiness of protection circuit
Synchronization	Flashover	Usage of Safe synchronization procedure	Malfunctioning of sync meter	Ensure sync meter is tested with periodicity
Feeders normalization	Electric shock	Usage of Safe operating procedure & tools	Contact with live parts	Ensure updated SOPs & certified tools are used
	Breaker handle bouncing	Usage of proper designated tools	Damaged operating tools	Ensure certified tools are used