



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



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/Elect /32
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Managing/Handling power distribution system			

Scope/Purpose : This Procedure to establish Safe practices of managing/handling power distribution system.

Responsibility : Shift supervisor/Engineer – Electrical

Accountability : Head-Electrical

PPE:

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

Tools:

1. Insulated tools
2. Proper operating tools

Hazard Analysis:

Risks associated

Electric shock

Mitigating Measures

Usage of insulated tools

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs

Procedure:

- a) Get the details of feeder conditions from present SLD / Shift log book of various plant feeders.
- b) Get the Generation / Load details of CPP, DG sets and Plants.
- c) Get the details of TNEB export/import mode of operation for the day/time.
- d) Inform CPP/CCR for load/generation variations accordingly.
- e) For any switching operation, get the details from respective panel/feeder.



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- f) For switching operation, use respective interlock keys and proper operating tools.
- g) Verify EIP with CCR before permitting for any LOTO at feeders.
- h) For major switching operations, get clearance from shift head/HOD.
- i) Fill the log book with proper details of all switching & LOTO activities.

Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the safety department or call Emergency number 251 / 254 / 568 /9842994062.

Records/Annexure:

1. JSA is enclosed below.



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JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Managing/Handling power distribution system	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician/Shift engineer	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 operation	Electric shock	Ensuring safe operating procedures for switching operation	Mismatch in Sequence of operation	Proper interlock system
Load management	Black out	Usage of Proper load tracking system	Mis-communication	Generation/Load tracking system on continuous basis.
Usage of Spare breaker / Contactors / Elec. Switchgears	Electric shock	Ensure the spare is ready and tested.	Connection may go wrong.	Proper marking of power and control terminals is required.
Online measuring of Current.	Electric shock	Hand gloves to be used.	Disturbance of power terminals.	Proper minimum Spacing to be maintained.
Online checking of control circuits.	Electric shock	Usage of proper Measuring instruments.	Faulty Measuring instruments.	Usage of good quality Measuring instruments.
Online inspection of MCC feeder Power terminals	Electric shock	Maintaining proper minimum distance from the power terminals	Knowledge on minimum distance	Proper training



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Issuing / Restoring of EIP for the Feeders.	Electric shock	Switching ON/OFF operation using the Switch gear handles and standing in the rubber mat.	Handle failure Rubber mat not in position	Failed handles to replaced and rubber mat to be in position at all situations.
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