



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Elect /12
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Capacitor Panel Maintenance			

Scope/Purpose : This Procedure to establish and ensure safe method of Capacitor Panel Maintenance

Responsibility : Section Engineer – Electrical

Accountability : Section Head-Electrical

PPE:

1. Safety shoe,
2. Rubber Gloves

Tools:

1. Spanner Set.
2. Panel Key
3. Earth rod
4. Insulation tester.
5. Multi Meter.

Hazard Analysis:

Risks associated

Electrical shock
Hazardous gas leakage

Mitigating Measures

Proper Isolation and Discharge of Stored energy.
Proper disposal to stores

Training needs:

1. Maintenance of Capacitor bank.
2. Usage of tools and Instrument.
3. Usage of PPEs

Procedure:

- a) Get work permit from the concerned Electrical section in-charge.
- b) Isolate the incoming supply and Proceed LOTO.
- c) Open the Individual capacitor bank covers
- d) Discharge the stored energy in Capacitor terminals.



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- e) Clean the capacitor panel / capacitors.
- f) Clean the bus bars.
- g) Check the capacitors for buckling, Oil leakage, Terminal condition and any physical damage.
- h) Check the discharge resistors.
- i) Check the feeder switchgears and cable for any color change or abnormality.
- j) Check the IR Value of Capacitors with 500 V IR Tester, If found defective the same to be replaced with equivalent capacity.
- k) Remove the discharge rod and ensure all the cubicles and doors are closed.
- l) Return the Work permit.

Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the safety department 523/ 9865177444 or call Emergency number 251 / 254 / 568 /9842994062.

Records/Annexure:

1. Sub- stations register
2. JSA is enclosed below.



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SOP For Capacitor Panel Maintenance

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Capacitor Panel Maintenance	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician	Supervisor: Section Supervisor	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety shoe & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Capacitor checking	Electric shock	Proper discharge method	Un-discharged capacitors	Usage of Earth rods

HEAD E & I

HEAD TECHNICAL