



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Elect /20
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Overhead Electrical Insulators cleaning			

**Scope/Purpose** : This Procedure to establish and ensure safe method of Overhead Electrical Insulators cleaning in Substation

**Responsibility** : Section Supervisor – Electrical

**Accountability** : Head-Electrical

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Rubber Gloves
4. Nose mask
5. Safety belt

**Tools:**

1. Cotton cloth/cotton waste

**Hazard Analysis:**

<b>Risks associated</b>	<b>Mitigating Measures</b>
Fall from height	Use of Safety belt

**Training needs:**

1. PEP TALK about Nature of Hazards
2. Awareness about electrical circuits
3. Usage of PPEs

**Procedure:**

- a) Get work permit from the concerned Electrical section in-charge.
- b) Ensure the overhead lines are physically isolated.
- c) Discharge the Overhead lines.
- d) Barricade the cleaning area from others.



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- e) Tool box instruction to be given to the contract workers including contract supervisor before entering the switch yard.
- f) Use ladder to approach the insulators.
- g) Use Hand gloves & Safety belt during cleaning.
- h) Supervisor must present at the site during the work for monitoring the people for safe activities / conditions.
- i) Clean the insulators.
- j) Remove the foreign materials from the work site after cleaning.
- k) Remove the ladder and Barricades.
- l) Remove the Discharge rods.
- m) Return the Work permit.

**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: Overhead Electrical insulators cleaning	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician & Contract helpers	Supervisor: Section Supervisor	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, Rubber Gloves, Nose mask & Safety belt.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Insulator Cleaning	Injury due fall from height	Use of safety belt	Slip during cleaning	Usage of right ladders & fall protection system
Insulator Cleaning	Electric shock due to live circuit	Proper Barricading & physical isolation of live areas	Lack of knowledge about Live circuit	Work permit with LOTO system & Appropriate Tool box instruction

HEAD E & I

HEAD TECHNICAL