



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



<b>Issue No. 02</b>	<b>Rev. No: 01</b>	<b>Effective Date: 22.05.2015</b>	<b>SOP/Elect /23</b>
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<b>Issued By: S &amp; P</b>	<b>Approved By: Elect. &amp; Inst Head</b>
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**SOP For Lighting Maintenance**

**Scope/Purpose** : This Procedure is to establish and ensure safe Maintenance Practices in Plant outdoor Lighting

**Responsibility** : Section Supervisor – Electrical

**Accountability** : Head-Electrical

**PPE:**

1. Safety helmet
2. Safety shoe
3. Rubber Gloves
4. Safety Belt
5. Nose Mask

**Tools:**

1. Insulated tools
2. Air Blower
3. Screw Driver
4. Cutting-Plier
5. Spanner set
6. Test Lamp
7. Fuse Puller
8. Ladder

**Hazard Analysis:**

**Risks associated**

Electrical shock  
Fall from Height

**Mitigating Measures**

Use of insulated tools & proper discharging methods  
Use of Ladder & Safety belt

**Training needs:**

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



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**Procedure:**

- a) Get work permit from the concerned Electrical section in-charge.
- b) Barricade the working area.
- c) Place the Ladder to approach Light fitting.
- d) Check & Ensure the Ladder is locked for that position.
- e) Wear safety belt and climbing up in ladder.
- f) Lock the Safety belt during maintenance work.
- g) Use Hand gloves & Insulated Tools during Maintenance work.
- h) Clean the Light fitting.
- i) Arrange Temporary supply & Check the Light fitting.
- j) Replace the failure components.
- k) Normalize the Light fitting in original position.
- l) Remove the ladder.
- m) Clear 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)**

<b>Job Safety Analysis</b>	Job: Lighting Maintenance	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician & Contract Employee	Supervisor: Section Supervisor	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, Safety Belts & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Switch Off & Isolation	Electric Shock	By using Hand gloves & Proper tools	Usage of Improper tools	Proper Switch off & Isolation methods
Maintenance Activities	Electric shock due to un-discharged components (or) Temporary power supply	Proper Discharging methods / Usage of Circuit Tripper	Live circuit / Usage of Improper tools / Tripper failure	Proper discharge methods / Ensuring Tripper operation
Maintenance Activities	Fall from Height	By using Safety belts	Slip / Fall of Ladder	Usage of Safety belts & Ensuring Ladder is locked.

HEAD E & I

HEAD TECHNICAL