



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



Issue No. 01	Rev. No: 00	Effective Date: 01.04.2016	SOP/Elect /37
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For ESP Electrical Maintenance			

**Scope/Purpose** : This Procedure to establish and ensure safe Maintenance practices in ESP.

**Responsibility** : Section 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  
Fall from height  
High Temperature in Pent house

**Mitigating Measures**

Usage of insulated tools.  
Usage of full body harness.  
Enter after temperature reduction in chamber

**Training needs:**

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

**Procedure:**

- a) Get work permit from section in-charge.
- b) Ensure EIP is intact for Transformers, Space heaters & Rapping motors.
- c) Ensure Transformer HT side is connected with earth.
- d) Check & clean Transformer & its accessories.
- e) Check & clean HT bushing & connecting electrodes.
- f) Check & clean electrodes connecting to ESP fields.



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- g) Check & clean support insulators & space heaters.
- h) Check Rapping motors & supporting insulators.
- i) Fill the check list.
- j) Remove the earth rod from HT side
- k) 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)

<b>Job Safety Analysis</b>	Job: ESP Electrical 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, safety helmet & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Checking Transformer terminals.	Electric shock	Usage of Safe operating procedure	Non de-energised components	Usage of LOTO & Proper Earthing system
Checking HT bushing & electrodes	Electric shock	Usage of Safe operating procedure	Non de-energised components	Usage of LOTO & Proper Earthing system
Checking Rapping motors	Electric shock	Usage of Safe operating procedure	Non de-energised components	Usage of LOTO & Proper Earthing system
Checking Space heaters	Electric shock	Usage of Safe operating procedure	Non de-energised components	Usage of LOTO & Proper Earthing system
Inspection of Insulators	Fall from height	Usage of PPEs	Improper PPE usage	Usage of certified PPEs