



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Elect /18
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Testing of Transformer Oil			

**Scope/Purpose** : This Procedure to establish and ensure safe method of Testing of Transformer Oil

**Responsibility** : Section Supervisor – Electrical

**Accountability** : Head-Electrical

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Rubber Gloves.

**Tools:**

1. Insulated tools
2. Oil test kit

**Hazard Analysis:**

**Risks associated**

Electrical shock  
Slippery due to Oil spillage

**Mitigating Measures**

Use of proper tools  
Proper Handling methods

**Training needs:**

1. Usage of tools and Nature of Hazards
2. Fire fighting training
3. Usage of PPEs

**Procedure:**

- a) Get work permit from the concerned Electrical section in-charge.
- b) Clean the sampling bottle.
- c) Take sample through sampling valve only.
- d) Use Hand gloves during sampling.
- e) Use Insulated tools for Sampling & Testing.



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- f) Ensure presence of Fire fighting equipments near to testing place.
- g) Ensure Tripping protection of Test Kit.
- h) Switch off the Test kit before keep / remove oil sample in electrode.
- i) Check sample oil in Test kit as per Testing Procedure.
- j) Stay away from test kit During Testing.
- k) Dispose the tested oil / waste oil as per proper disposal methods.

**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. Testing of Transformer Oil
2. JSA is enclosed below.



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## JOB SAFETY ANALYSIS: (JSA)

<b>Job Safety Analysis</b>	Job: Testing of Transformer oil	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 helmet, Safety shoe & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Sampling	Injury due to oil spillage / over through	Proper sampling method	Slip / broken valves during sampling	Proper sampling method & Usage of hand gloves
Testing	Electric shock	Proper Testing procedure	Live circuit / Usage of Improper tools	Switch off the test kit & Usage of proper tools
Testing	Oil splash / Oil burning	Proper Testing method	Oil splash / Oil overheat due to Faulty Trip circuit	Ensuring protection circuit for Proper tripping
Testing	Unconsciousness	Proper Testing method	Release of Toxic gases due to oil overheat / burn	Use of PPEs & Stay away from test kit

HEAD E & I

HEAD TECHNICAL