



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT  
ARIYALUR  
ELECTRICAL MANUAL**

Issue No:02	Rev. No: 00	Effective Date: 01.11.2019	ELEC/SOP/024
Issued By: M.R		Approved By: HOD - ELECTRICAL	
SOP for Trouble shooting in Live Panel			

**Scope** : Trouble shooting in live panel for control scheme only

**Responsibility** : Engineer/Electricians

**Accountability** : Electrical Manager

**PPE:**

1. Nose mask
2. Goggles
3. Safety shoes
4. Safety helmet
5. Rubber hand gloves

**Tools:**

1. Test lamp
2. Insulated tools
3. Multi meter
4. Line Tester

**Hazards:**

**Risk Associated**

Electrical Shock  
Minor body injury  
Electrocution (Fatal)  
Electrical Flash  
Electrical Fire

**Mitigating Measures**

Tested Electrical Rubber Hand Gloves  
Safety shoes, gloves, helmet, goggles  
Re- fresher Training

**Training needs:**

1. Emergency preparedness
2. First aid training
3. First aid including CPR training
4. Electrical safety training

**Procedure:**

1. Use proper PPE.
2. Only Use electrical safety shoes for trouble shooting in live panel and stand on rubber mat.



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3. Use only insulated hand tools.
4. Use tested electrical rubber hand gloves wherever required.
5. Only qualified Technician / Engineer personnel work on live panels.
6. Do not carry out the work in Live Panel if Place / person are in wet condition.
7. Be alert and keep yourself beside the panel during opening the panel cover.
8. After opening the live panel inspect and ensure that there are no bare live power conductor are in exposed. If any power conductor in exposed, take LOTO and do necessary arrangement for cover the same.
9. For testing the control supply are tightening the terminal point use the line tester or connector in straight position, don't put in inclined position.
10. After finishing the Job, close all panel doors / covers properly.

**Emergency / Emergency Shut OFF:**

1. If any injury or electrical shock is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

**Records/Annexure:**

1. JSA as enclosed below.



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**JOB SAFETY ANALYSIS:(JSA)**

<b>Job Safety Analysis</b>	Job: Trouble shooting in live panel	Date:	Analysis by: Section engineer	Reviewed by: Section head
Title of employee doing job: Engineer / Electrician	Supervisor: Section Engineer	Department: Electrical	Section: Plant	Approved by: HOD
Reqd./recommended PPE: Tested Electrical rubber hand gloves, Safety shoes, Safety helmet, Safety Goggle				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Opening of live panel cover	Body injury	Use suitable tools	Tool may be damaged	Inspect before use
	Panel flash over and Burned injury	Keep yourself beside the panel	Not follow the procedure	Tool box talk/Proper Training
		Wear safety Goggles	Damaged goggles/non standard goggles/ Not wearing Goggle.	Periodic replacement/ Proper training
Trouble shooting	Short circuit.	Use Insulated tools	Insulation may damage.	Inspect before use
		Testing tools to be hold straight	Not follow the procedure	Tool box talk/SOP Training
	Panel flash over and Burned injury	Wear safety Goggles / Electrical glove	Damaged goggles/non standard goggles/ Not wearing Goggle.	Periodic replacement/ Proper training
		Power conductor to be covered by shroud	Failed to inspect or cover	Inspect before start the job