



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



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	INST/SOP/027
Issued By: M.R		Approved By: HOD- INSTRUMENTATION	
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 ( Electrical)
4. Safety helmet
5. Rubber hand gloves

**Tools:**

1. Test lamp
2. Insulated tools
3. Multimeter
4. Line Tester

**Hazards:**

Risk Associated

Electrical Shock

Minor body injury

Mitigating Measures

Electrical Safety Gloves

Safety shoes, gloves, helmet, goggles

**Training needs:**

1. Emergency preparedness
2. First aid training

**Procedure:**

1. Use proper PPE.
2. Only Use electrical safety shoes for trouble shooting in live panel and stand on rubber mat.
3. Use only insulated hand tools.
4. Use electrical hand gloves wherever required.
5. Only qualified Technician / Engineer personnel work on live panels.



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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 injuries or electrical shock are there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.



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**Records/Annexure:**

1. JSA as enclosed below.

**JOB SAFETY ANALYSIS:(JSA)**

<b>Job Safety Analysis</b>	Job: Trouble shooting in live panel	Date: 20.09.2017	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
<b>Sequence of Basic Job Steps</b>	<b>Potential Hazards</b>	<b>Recommended Safe Job Procedure</b>	<b>What Could Go Wrong</b>	<b>Corrective Action</b>
Opening of live panel cover	Body injury	Use suitable tools	Tool may be damaged	Inspect before use
Trouble shooting	Panel flash over and Burned injury	Keep your self beside the panel Wear safety Goggles	Not follow the procedure Damaged	Tool box talk Periodic replacement
	Short circuit.	Use Insulated tools	Insulation may damaged	Inspect before use
		Testing tools to be hold straight	Not follow the procedure	Tool box talk
	Panel flash over and Burned injury	Wear safety Goggles Power conductor to be cover by shroud.	Damaged Failed to inspect or cover.	Periodic replacement Inspect before start the job.



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