



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



Issue No. 01	Rev. No: 02	Effective Date: 07.07.2017	SOP/Elect /057
Issued By:		Approved By: HOD - ELECTRICAL	
SOP For MICOM RELAY SETTING			

**Scope** : SOP for Micom Relay Settings  
**Responsibility** : Electrical Shift Engineer / Section Engineer  
**Accountability** : Electrical Section Engineer / Head

**PPE:**

1. Safety Helmet.
2. Safety Shoe.
3. LT Gloves.

**TOOLS:**

1. Micom Relay Manual

**Hazard Analysis:**

**Risk associated:**

Flash Over of Panel  
Effect of Shock  
Effect of Eye Irritation

**Mitigation Measures**

Use of Safety Harness  
Suitable Electrical Insulated Gloves  
Use of goggles

**Training needs:**

1. MICOM Relay Setting Knowledge
2. Emergency Preparedness
3. First Aid Training



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**Procedure:**

1. Take Electrical Work permit for MICOM relay settings.
2. Isolate the Power Supply (VCB) and then Rack out with proper Rubber gloves.
3. Note down the Settings to enter in the Micom Relay based on the applications of the HT Feeder (whether Incomer, Motor or Transformer applications)
4. By using Up/Down arrow keys, go to 'Protection G1' Parameter.
5. Scroll down to "Protection G1" to set the following parameters
6. Select the "[50/51] *Phase Overcurrent*" option and enter the required values as per application.
7. Select the "[50N/51N] *Earth fault protection*" option and enter the required values as per application.
8. Select the "*Undercurrent Protection*" option and enter the required values as per application.
9. Select the "*Negative Sequence Overcurrent Protection*" option and enter the required values as per application.
10. Select the "*Thermal Overload Protection*" option and set the required values for Thermal Overload.
11. Cross check the MICOM Relay setting by manually.
12. Rack-In the VCB with proper Rubber gloves.
13. Switch ON the power Supply (VCB).

**Emergency / Emergency Shut OFF:**

1. If electrical shock injury or body injury is 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: Micom Relay Setting	Date: 22.06.2013	Analysis by: Section Engineer	Reviewed by: Section Head
Title of Employee doing job: Engineer	Supervisor: Engineer	Department: Electrical	Section: Load Centre	Approved by: HOD
Required / Recommended PPE: Safety Shoe, Safety Helmet, Gloves.				
<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>
Identification of Micom Relays	Trip of Power due to wrong selection of Meter.	Cross check with Display which is Displayed	Fail to Cross check the Meter Display not Available	Ensure the SOP to be Followed Once in the Year Cross check the Displays.