



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

Issue No:02	Rev. No: 00	Effective Date: 01.11.2019	SOP/Elect /057
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Issued By:	Approved By: HOD - ELECTRICAL
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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)

Job Safety Analysis	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.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
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.