



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



Issue No. 01	Rev. No: 02	Effective Date: 07.07.2017	SOP/Elect /056
Issued By:		Approved By: HOD - ELECTRICAL	
SOP For SEPAM RELAY SETTING CHANGE			

Scope : This Procedure to establish and ensure safe method of SEPAM RELAY SETTING CHANGE.

Responsibility : Section Engineer/Shift Engineer – Electrical

Accountability : Section Head-Electrical

PPE:

1. Safety shoes
2. Safety helmet
3. Rubber Gloves

Tools:

1. Laptop with Communication cables

Hazard Analysis:

Risks associated

Injury
Electric shock

Mitigating Measures

Use of proper Handling tools
Use of Proper Isolating tools

Training needs:

1. Emergency preparedness
2. First aid training
3. SEPAM SETTING Knowledge

Procedure:

1. Take Electrical Work permit for SEPAM relay setting upload and download.
2. Switch OFF the Power Supply (ACB or SFU) and if ACB then Rack out with proper Rubber gloves.
3. Plug the Laptop Communication cable connector in SEPAM Relay communication port.



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4. Communicate the SEPAM relay through Laptop by selecting “connect to front face” Icon in SF2841 software.
5. Click the “Protections” option to set the setting parameters
6. Click the “50/51-1” option and set the required values in Setting Group A, Setting Group B for Phase Overcurrent (1).
7. Click the “50/51-2” option and set the required values in Setting Group A, Setting Group B for Phase Overcurrent (2).
8. Click the “50N/51N-1” option and set the required values in Setting Group A, Setting Group B for Earth Fault (1).
9. Click the “50N/51N-2” option and set the required values in Setting Group A, Setting Group B for Earth Fault (2).
10. Click the “46” option and set the required values for Negative sequence current/unbalance Protection.
11. If require Recloser operation then Click the “79” option and set required values .
12. Upload the setting to SEPAM relay
13. Unplug the Laptop Communication cable connector in SEPAM Relay communication port
14. Cross check the SEPAM Relay setting by manually.
15. Rack in the ACB with proper Rubber gloves.
16. Switch ON the power Supply (ACB or SFU).

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.

Records/Annexure:

1. JSA as enclosed below.

JOB SAFETY ANALYSIS: (JSA)



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Job Safety Analysis	Job: Sepam relay setting upload and download	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Engineer	Supervisor: Section Engineer/ Shift Engineer	Department: Electrical	Section: Plant	Approved by:
Reqd./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
Feeder Rack in/Out	Electrical Shock	Wear Tested Electrical Rubber Hand gloves	Damaged Gloves/ Not checked before use	Periodic replacement/ To check for Damage before use