



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM**



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/Elect /33
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Start/Stop Operation of DGs			

Scope/Purpose : This Procedure to establish and ensure safe Operation during Start/Stop of DGs.

Responsibility : Shift in-charge/ Section Supervisor – Electrical

Accountability : Head-Electrical

PPE:

1. Safety shoe/Boot,
2. Safety Helmet
3. Rubber Gloves

Tools:

1. Insulated tools

Hazard Analysis:

Risks associated

Electric shock

Mitigating Measures

Usage of insulated tools

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs

Procedure:

- a) Get clearance from concerned person to start the DG.
- b) Inform Mechanical dept. to make ready the DG set.
- c) After getting clearance from mechanical for auxiliaries run, start the DG as per SOP.
- d) Synchronise the DG with existing power sources as per synchronizing steps.
- e) Increase/decrease the generation based on load availability.
- f) Inform mechanical regarding alarms during operation.
- g) Stop the DG sets as per sequence after getting approval to stop the DG.



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h) Take energy meter & hour meter readings at the time of stopping DG.

Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the safety department or call Emergency number 251 / 254 / 568 /9842994062.

Records/Annexure:

1. JSA is enclosed below.



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JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Start/Stop operation of DGs	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician	Supervisor: Section Supervisor/Shift Engineer	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety shoe, safety helmet & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Starting DG	Electric shock	Ensuring recommended SOP for start-up	Failure of auxiliaries	Usage of Tested instruments
Synchronizing DG	Flashover/Electric shock	Ensuring recommended synchronizing procedure	Manual mistake	Usage of Proper interlocks & auto synchronizing steps