



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



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/Elect /35
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Issued By: S & P	Approved By: Elect. & Inst Head
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SOP For Maintenance in DG sets

Scope/Purpose : This Procedure to establish and ensure safe Maintenance practices in DG sets.

Responsibility : 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
Starting of Diesel engine

Mitigating Measures

Usage of insulated tools.
Permission should be obtained from Diesel Equipment section.

Training needs:

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

Procedure:

- a) Get work permit & clearance from Elec. and Mech. Incharge's.
- b) Ensure EIP in intact.
- c) Ensure NGR in open condition.
- d) De-energise the generator windings.
- e) Check Generator stator terminals.
- f) Check magnets/diodes in rotor circuit.
- g) Check bearings and oil level.



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CHS Form

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- h) Check AVR panel.
- i) Fill the check list.
- j) Return the work permit.

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: Maintenance in DG sets	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician	Supervisor: Section Supervisor	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
Checking Generator windings	Electric shock	Usage of Safe operating procedure	Non de-energised components	Usage of LOTO & Proper Earthing system
Checking Generator windings	Electric shock due to testing instruments	Usage of proper testing methods	Failure of testing instruments	Usage of Tested instruments
Inspection of Generator windings	Fall of tools/ Measuring instruments inside the generator	Small tools to be tied with cotton rope	Snap of tie	Engaging trained electricians and helper.
Inspection of Bearings / replacement of Bearing	Splash of bearing Lubrication oil.	Proper draining of Lub. oil	Spillage of oil.	Proper and good quality tray / funnel and oil Can to be used.