



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Elect /01
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Issued By: S & P	Approved By: Elect. & Inst Head
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SOP for HT Motors Maintenance

Scope/Purpose : This Procedure to establish and maintenance of HT Motors

Responsibility : Section Engineer – Electrical

Accountability : Head-Electrical

PPE:

1. Safety helmet,
2. Safety shoe,
3. Rubber Gloves.

Tools:

1. Tester
2. Megger

Hazard Analysis:

Risks associated

Electric Shock

Mitigating Measures

Use of proper tool, Rubber Gloves

Training needs:

1. Usage of tools and Nature of Hazards

Procedure:

DO'S

1. Switch OFF the respective motor breaker / isolator and remove the mechanical inter lock castel key at double bus bar panel before start working in the motor.
2. Ensure for the physical isolation of all the three phases after switching OFF both the isolators (EB and DG side) at DBB panel, wherever possible.



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3. Discharge the stator terminals / cable using earth rod.
4. Switch OFF and LOCK at LCS near motor.
5. Display the caution board at the breaker / isolator panel
6. Discharge the motor / cable after HT megger test.
7. While conducting no load trial (without coupling bolts), confirm the clearance is adequate between motor coupling and the driven equipment coupling.
8. Ensure similar adequate safety instructions are followed while working on LRS / LRR / GRS / HT CAPACITORS.

DON'TS

1. Don't force to close the isolator without properly fixing the Mechanical interlock castal key.
2. Don't run the motor without connecting adequate size two distinct earth connections.
3. Don't forget to remove the motor heater fuses while disconnecting the motor connection.
4. Don't touch the motor terminals before discharging.



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Emergency / Emergency Shut OFF:

1. If any injury is there, first aid will be given and inform to the safety department or call Emergency number 523 / /9865177444/9865195111.

Records/Annexure:

1. Register for Maintenance of HT Motors
2. JSA is enclosed below.

JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: HT Motors Maintenance	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Permanent/ Contract labour	Supervisor: Section Engineer	Department: Electrical	Section: Plant	Approved by:
Req'd/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
Discharge the Motors after Megger Test	Electirc Shock	Proper Discharging methods	Un discharged components	Use proper Tools and Discharge rod

HEAD E & I

HEAD TECHNICAL