



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



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/Elect /31
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Issued By: S & P	Approved By: Elect. & Inst Head
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SOP For Cable laying in existing cable trays

Scope/Purpose : This SOP for cable laying in existing cable trays.

Responsibility : Section Supervisor – Electrical

Accountability : Section Head - Electrical

PPE:

1. Safety shoe
2. Safety Helmet
3. Nose mask
4. Gloves
5. Goggles
6. Full body harness

Tools:

1. Supporting Jacks.
2. Pulley
3. Wire rope
4. Insulated tools.

Hazard Analysis:

Risks associated

Mitigating Measures

Injury due to electric shock-
existing cable tray.

Ensure using rubber hand gloves while placing cable inside the

Injury due to fall of materials

Ensure proper handling mechanism

Training needs:

1. Usage of tools and procedures how to lay cable in existing cable trays.
2. Usage of PPE's



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Procedure:

- a) Get work permit from the concerned Electrical Section Supervisor.
- b) Check that incoming end and outgoing end feeders are in OFF condition.
- c) Place the cable reeling drum on stand.
- d) Barricade the area where the cable is passing at over heads.
- e) Ensure that all persons are using full body harness while working at above 1.5mts height.
- f) Ensure that all the persons are using rubber hand gloves while laying cable.
- g) While doing cable termination at Incoming and outgoing ends, ensure the power supply is OFF by checking with Multimeter and test-lamp.
- h) Return the work permit to the concerned Electrical section supervisor.

Emergency / Emergency Shut OFF:

1. If any injury is there, inform to the Electrical Shift Engineer (251 / 9842994062) or Safety Department (523) or call Emergency number 9865160055



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Records/Annexure:

1. JSA is enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Lighting Maintenance	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Electrician & Contract Employee	Supervisor: Section Supervisor	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, Safety Belts & Rubber Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Switch Off & Isolation	Electric Shock	By using Hand gloves & Proper tools	Usage of Improper tools	Proper Switch off & Isolation methods
Laying of cable at height	Fall from height	Usage of full body harness.	Hook or rope damage in full body harness	Periodic checking and get tested with concerned departments
Laying of cable at height	Fall from height	Usage of Scuff holding wherever necessary.	Improper Scuff holding	Scuff holding to be certified by competent person.
Laying of cable in the panel cubicle	Electric Shock	Necessary clearance to be obtained from Section head – electrical.	Improper communication.	Permit to be obtained from concerned person