



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



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/Elect /24
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP For Underground cable trench inspection			

Scope/Purpose : This Procedure to establish and ensure safe method of Underground cable trench inspection.

Responsibility : Section Supervisor – Electrical

Accountability : Head-Electrical

PPE:

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

Tools:

1. Insulated tools
2. 24V Lamps

Hazard Analysis:

Risks associated

Electric shock
Presence of Toxic gas
Man entry hole blockage
Presence of insects / snake

Mitigating Measures

Usage of insulated tools
Measurement of Oxygen level.
Alternate man entry hole in good condition.
Minimum 2 trained person should enter the tunnel.

Training needs:

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

Procedure:

- a) Get work permit (CSE Permit) from the concerned Electrical section in-charge.
- b) Illuminate the trench with 24V lamps.
- c) Ensure the ventilation / exhaust fan running for the trench.
- d) Ensure the trench is de-watered properly.



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- e) Enter into the trench through proper entry point only.
- f) Inspect the cables & trays for healthiness.
- g) Fill the check list.
- h) Ensure all opening holes are properly closed after inspection.
- i) 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: Underground cable trench inspection	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
Entry into the trench	Suffocation	Ensuring Oxygen level & proper ventilation	Error in Oxygen level measurement	Usage of good condition and valid tested instruments
Inspection of cables	Electric shock	Usage of Insulated tools. Usage of Hand gloves	Insulation failure in tools	Usage of good condition and valid tested instruments
Checking Trays/cables	Fall from height / Slippery	Usage of ladders	Ladder collapse	Usage of good condition and valid tested instruments
Working in tunnel for cable inspection	Earth material surging and closing the man hole	Man holes to be properly constructed and no temporary man hole to be used.	Edge may collapse	Quality construction to be done.