



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
ELECTRICAL MANUAL**



Issue No. 01	Rev. No: 01	Effective Date: 07.07.2017	SOP/Elect /037
Issued By:		Approved By: : HOD – ELECTRICAL	
SOP For Temporary Lighting arrangement			

Scope/Purpose : This Procedure is to establish and ensure safe method of Temporary Lighting Arrangement

Responsibility : Section Engineer – Electrical

Accountability : Head-Electrical

PPE:

1. Safety shoe,
2. Safety helmet
3. Safety belt

Tools:

1. Insulated tools

Hazard Analysis:

Risks associated

Electric shock
Fall from height
Electrocution (Fatal)

Mitigating Measures

Usage of Trippers & Insulated tools
Usage of ladders, Safety belt & Life line if required

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs
3. First aid including CPR training
4. Electrical safety training
5. Height work training



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Procedure:

1. Get work permit from the concerned Electrical section in-charge.
2. Use 30mA ELCB for the lighting circuit & ensure the tripper operation.
3. Use 24V lamps only for the confined space illumination.
4. Use 24V/230V lamps for outdoor illumination.
5. Ensure proper earthing for 230V lighting circuits.
6. Use ladder & Safety belt for fixing lamps at heights.
7. Ensure the lamp is free from hazards of fall / water entry.
8. Ensure the position of lamp not to glare the work area.
9. Return the Work permit.

Emergency / Emergency Shut OFF:

1. If electrical shock injury or body injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.



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Records/Annexure:

1. JSA is enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Temporary Lighting Arrangement	Date: 01.05.2013	Analysis by: SE	Reviewed by: SH
Title of employee doing job: O&M Electrician	Supervisor: Section Engineer	Department: Electrical	Section: Plant	Approved by: HOD
Req'd/recommended PPE: Safety shoe, Safety helmet, Safety belt& Life line.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Climbing up	Fall from height	Use Good condition Ladder	Slip from ladder/ Damage ladder	Usage of proper ladder. Check ladder before use.
		Use safety belt and maintain three point contact.	Not wearing safety belt/Not checked belt condition.	Ensuring proper lock arrangement/ Height work training/ Check belt condition before use
Lamp fixing & circuit connection	Electric shock	Use electrical gloves / Ensuring proper earthing	Improper earthing	Usage of 30mA ELCB & ensuring Tripper operation
	Tools fall from height / body injury	Ensure barricading underneath the work area. Care to use tools	Not barricading / Not using proper tools	Training thru' pep talk before job startup.



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