



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/CIVIL/01
Issued By: S & P		Approved By: HOD (CIVIL)	
SOP FOR LAYING REINFORCED CEMENT CONCRETE			

Scope/Purpose : This SOP is applicable to Safe working for laying RCC.

Responsibility : Engineer – civil

Accountability : Deputy General Manager – civil

PPE:

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

Tools:

1. Showel
2. Trowel
3. Plumb bob
4. Spirit level
5. Runner
6. Spade
7. Vibrator

Hazard Analysis:

Risks associated

Cut injury, fall

Mitigating Measures

Use of proper tool

Training needs:

1. Usage of tools
2. Pouring of concrete

Procedure:

1. Use Proper PPE & tools
2. Take proper work permit from safety dept as per the work condition.
3. Before starting of work, civil department personnel should ensure that proper scaffolding and shuttering should be done



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4. The formwork made for concrete must be strong and rigidly braced so that it will not bulge while concreting.
5. If mechanical vibrator is used, the shuttering should be strong enough to withstand the vibrator load.
6. Pans and wheel barrows used for carrying concrete should be in good condition.
7. The cover should be given as per IS standards before concreting.
8. For conveying concrete proper arrangement should be made either by chute or pump.
9. Avoid standing very close to the pit where concrete is to be poured.

Emergency / Emergency Shut OFF:

1. If cut or fall injury is there, First aid will be given and inform to the Safety department or Call Emergency number 523/9865177444/9865195111.
2. If any hose pipe got punctured or busted, then stop conveying the concrete immediately when pumping concrete is done.

Records/Annexure:

1. Refer drawing in civil department.
2. JSA is enclosed below.



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JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: Reinforced Cement Concrete	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Contract labour	Supervisor: Section Engineer	Department: Civil	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
Inspecting the site	Fall injury	Barrication should be done	Sliding may occur	Not to stand near the pit.
Mixing of materials	Cut or body Injury	Use of proper tools	Improper use tools and machine may lead to minor accident	The mixer machine and the tools should be properly maintained & good condition
Shuttering	Cut or body injury	Check the joints for its rigidity	Shutter may gets bulged and fall down	Use of good shuttering materials
Pouring concrete	Body injury	Use of proper conveying arrangement	The pipe or chute may gets damaged	Not to use damaged chute or pipe for pumping

HEAD CIVIL

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