

DALMIA CEMENT (B) LIMITED – CEMENT PLANT ARIYALUR



CIVIL DEPARTMENT MANUAL

Issue No. 01	Rev. No: 02	Effective Date: 07.07.2017	SOP/CIVIL/002
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Issued By: M.R Approved By: HOD – CIVIL

SOP FOR REINFORCEMENT

Scope : This SOP is applicable to Safe working for placement of reinforcement

work for various heights.

Responsibility : Concern contractor & Workers.

Accountability : Civil-Section In charges.

PPE:

1. Safety helmet,

- 2. Safety shoe,
- 3. Mask.
- 4. Safety harness.
- 5. Hand gloves
- 6. Safety goggles.

Tools:

- 1. Hammer
- 2. Ring Spanner set
- 3. Rebar cutting machine
- 4. Rebar binding& Bending tools
- 5. Nails

Hazards:

Risks associated Mitigating Measures

Fall from heights safety nets

Form work collapse Proper inspection & follow the standards

Electrical hazards. Fit ness of electrical equipments

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Training needs:

- 1. Emergency preparedness
- 2. Work at height
- 3. PPE,s training

Procedure:

Before stating the Fabrication & Fixing of rebar.

- 1. Necessary work permits has to be obtained
- 2. All workmen are wearing safety PPE & awareness
- 3. To ensure proper supervision to be made available
- 4. Adequate staging and platforms is to provide
- 5. Inspection for the form work should be done by section incharge/competend personal
- 6. Rigidness of formwork -
- 7. No nail should protrude from support
- 8. Good for work tag has to be fix
- 9. Necessary stair case arrangement should be made to reach the work place at height
- 10. Rebar cutting &bending to be done with the proper work man
- 11. Shifting and lifting the re bar has to be carried out by proper supervision
- 12. Reinforcement rod has been placed as per drawing
- 13. The reinforcement rods are firmly held in position
- 14. Any reinforcement sharp edge should not project outside or working area.
- 15. The approach area to be clear from all encumbrances and platforms if any, has to have proper handrail as per the standards

Emergency / Emergency Shut OFF:

- 1. If anybody fall from height, inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.
- 2. If any shaking in the form work /scaffolding, then stop the work and inform to the section in charge.
- 3. If any injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761

Records/Annexure:

- 1. Refer pour card.
- 2. ISA as enclosed below.

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SOP FOR REINFORCEMENT

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: This SOP is applicable to Safe working for Fabrication & Fixing of reinforcements(REBAR) for various heights	Date:	Analysis by:S.chandra Bose	Reviewed by: T.vivekanandan
Title of employee doing job: Concern contractor & Workers	Supervisor: Section In charge	Department: Civil	Section: plant area	Approved by: M.Mohamed Ali

Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES, NOSE MASK, safety goggles. Safety harness,				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Re bar fabrication & placing	Collapsing of the scaffolding	To ensure the Good for work tag has to fixed the work place(Green board)	Fall from heights- major injury or fatality	To ensure the competent supervisor /contractor while the time of the job.
			major injury or fatality	Hand rails provided the work place.
	Height fear			Use proper safety Shoe & Hand Glove.
		Vertigo test to be done who is going to do the job.	Major injury	Use safety net and barricade surrounding area of the work place
	Nails	Proper housekeeping at the work place.	Major injury	Use proper safety Shoe & Hand Glove.
	Electrical hazards.	Nails should not be protrude To ensure the fitness of electrical equipment (Re bar cutting & Bending machine) and damaged wires should not used for connection of tools & light fittings etc		Proper supervision.
			Electric shock / fatality	Use safety net and barricade surrounding area of the work place
				Ensure the fit ness for Equipment.
				Ensure the weight limitation.
				Ensure the competent person to engage the lifting work.
	Handling of rebar.	Proper hand Gloves at the time of re bar cutting bending & tieing	Major injury	Ensure the area (Lifting surrounding area) to be barricaded.
	Projection of reinforcement(sharp edge)	To ensure any sharp edge not projected in working area	Major injury	Use safety net around the work place
				Educated the workman through training or PEPTALK and follow the SOP while working.

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