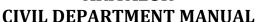


DALMIA CEMENT (B) LIMITED – CEMENT PLANT ARIYALUR





Issue No. 02	Rev. No: 00	Effective Date: 18.02.2022	SOP/CIVIL/19
Issued By: M.R		Approved By: HOD (Civil)	

SOP FOR CONCRETE SLAB CUTTING WORK

Scope : This SOP is applicable to Safe working for concrete slab cutting work at

various heights.

Responsibility : Concern contractor & skilled manpower

Accountability : Civil-Section In charges.

PPE:

1. Safety helmet

- 2. Safety shoe
- 3. Nose mask
- 4. Safety full body harness
- 5. Hand gloves
- 6. Safety goggles
- 7. Gum boot

Tools:

- 1. Concrete breaker machine
- 2. Cutting machineries & consumables like floor saw, wall saw, wire saw, core cutter, etc. as applicable
- 3. Electrical gadgets like approved extension boxes with cables, etc.
- 4. General hand tools like drilling machines, hand cutting tools, spanners, hammers,
- 5. Rigging equipments like chain block, slings, D-shackles, etc. as applicable
- 6. Lifting machineries like hydra, crane, monorail, EOT, etc. as applicable

Hazards:

Risks associated	Mitigating Measures
Fall from heights	Ensure DCBL height work & scaffolding standard with PPEs
Injury to person	Only experienced skilled contractor/manpower shall be deployed
Electrical hazards	Ensure Fitness certificate for all electrical operated equipments



DALMIA CEMENT (B) LIMITED – CEMENT PLANT ARIYALUR



CIVIL DEPARTMENT MANUAL

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SOP FOR CONCRETE SLAB CUTTING WORK

Training needs:

- 1. Emergency preparedness
- 2. Work at height
- 3. Scaffolding

Procedure:

- 1. Necessary work permits have to be obtained
- 2. All workmen shall wear safety PPEs along with its awareness
- 3. Exclusive approved method statement for execution to be followed
- 4. Ensure proper supervision to be made available
- 5. Adequate staging and platforms to be provided
- 6. Necessary stair case /certified ladder arrangement should be made to reach the work place at all heights
- 7. The approach area shall be clear from all encumbrances and platforms if any shall have proper handrails/barricades as per the standards
- 8. Sufficient safe work space shall be available for cutting team with machineries, rigger team, supervisors, etc.
- 9. Slab/beam area to be cut shall be marked as per the approved drawing
- 10. Before initiating the cutting process, the bottom slab/beam area shall be provided with adequate support structures/probes as required
- 11. Beneath the slab/beam cutting area, safety barrication to be ensured to avoid public access
- 12. Before starting the cutting operation, rigging team shall be ready with all equipments, tools & tackles and core-cutting handing supports, etc., for handing the cut pieces of slab/beam
- 13. Step by step cutting shall be done as per approved method statement based on the handling capacities, sizes & cut locations
- 14. After cutting, the cut pieces shall be handled with utmost care & shifted to the boom reachability of lifting machineries
- 15. After completion of cutting & removal of pieces, that opened up area to be barricaded properly with hard barrication until further completion of its intended purpose
- 16. With the support of rigger's team & lifting machineries, cut pieces shall be brought down to the ground level and to be transported / disposed to the earmarked locations
- 17. If required, the cut pieces shall be broken into debris & disposed accordingly
- 18. Finally, good housekeeping to be ensured in both cutting & disposal locations



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SOP FOR CONCRETE SLAB CUTTING WORK

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. JSA as enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: This SOP is applicable to Safe working for	Date: 18.02.2022	Analysis by: M.I. Shameem Sufiyan	Reviewed by: S. Chandra Bose
	Concrete slab cutting work		Junyan	DOSC
Title of employee doing job: Concern contractor & skilled manpower	Supervisor: Section Engineer	Department: Civil	Section: All plant area	Approved by: S. Chandra Bose
Req'd/recommended PPE:	I Safety helmet, Safety shoes, Saf	Tety full body harness, Nose ma	ı sk, Safety goggles, Hand gloves	, Gumboot.
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Procedure	What Could Go Wrong	Corrective Action
1) During cutting operation	Injury to cutting operating / rigger person	Experienced/skilled manpower shall be deployed with approved method statement of execution	May lead to cut injury / fatal	Experienced / skilled manpower to be deployed
2) During cutting/handling process	Person may fall	DCBL Height work & scaffolding standard shall be followed strictly	May lead to injury / fatal	DCBL Height work & scaffolding standard along with proper PPEs to be ensured
3) During cutting/handling process	Free fall of cut material	DCBL Height work & scaffolding standard shall be followed strictly	May lead to injury / fatal	DCBL Height work & scaffolding standard along with proper PPEs to be ensured
6) Electrical equipment's safety	Electrical hazard	Ensuring the fitness of electrical equipment like cutting equipments, extension boxes light fittings & tools. Damaged cables shall not be used	Electric shock / fatality	Ensure the operating condition of all equipments along with fitness certificate before startup of work. Trained operators shall be deployed