



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL

Issue No. 02	Rev. No: 01	Effective Date: 08.07.2022	SOP/MEC/146
Issued By: M.R		Approved By: HOD-Mechanical	
SOP FOR MOBILE CRANE OPERATION			

SOP FOR MOBILE CRANE OPERATION

Scope : This SOP is applicable to Safe working of Mobile crane Operation

Responsibility : Operator

Accountability : Section Engineer.

PPE:

1. Safety helmet,
2. Safety shoe
3. Safety Belt
4. Nose Mask.
5. Hand Gloves.

Training needs:

1. Emergency preparedness
2. Fire Fighting
3. Hydraulic operation

Procedure:

- 1) Complete the check list and start the Vehicle.
- 2) Remove all chock blocks under the wheels.
- 3) Check for loose objects on Runways or road.
- 4) Crane operators shall not engage in any other practice that will divert their attention while operating the equipment.
- 5) Operator must make a complete walk around the equipment to ensure that people are clear of the equipment, all nearby are equipment is in a safe distance
- 6) Check for overhead electrical hazards, safe site conditions, weather and excessive wind.
- 7) Check and Verify that ground conditions at work locations are stable and provide adequate support for out rigger.
- 8) Put Barricades, warning signs or other methods must be used to prevent entry into a lift area or turn radius of the crane.



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- 9) All controls must be tested by the operator prior to operating the equipment.
- 10) All loads must be rigged by a Qualified Rigger and ensure the load must be made free from connections and fittings. Don't try to pull the load without making free from its fittings
- 11) Don't use tools and tackles without color codification.
- 12) Know the weight of the components before attempt a Lifting. Don't lift unknown Weight or equipment's.
- 13) Don't push or pull the lifting objects by using Crain boom or hook.
- 14) Don't bypass the Safety device installed on the crane.
- 15) While fixing Fly jib connect the hook limit switch fixed at fly jib
- 16) Use only ball hook for Fly jib operations.
- 17) Ensure Crane unloaded condition before the Rigger attempt to Remove Slings from Crane.
- 18) After completion of work remove all Barricades & warning signs from that area.
- 19) Park the crane always on the out rigger on a safe place.

Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

1. JSA as enclosed below

Job Safety Analysis:

Job Safety Analysis	Job: Crane Operation	Date:28.2.2018	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Technician	Supervisor: Section Engineer	Department: Mechanical	Section: Cement Plant	Approved by: HOD Mechanical
Required/recommended PPE: Safety helmet, Safety shoe, & Safety belt, goggles				
Sequence of Basic Job	Potential Hazards	Recommended Safe	What Could Go	Corrective Action



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Steps		Job Procedure	Wrong	
Moving the crane	Slip / Fall /caught in between	Use proper lifting tools	Failure of lifting tools	Use tested tools Deploy trained manpower.
Operating the crane	Hand injury	Use correct hydraulic tools.	Failure of hydraulic components	Use tested tools Deploy trained manpower.
Lifting load	Slip / Fall	Use proper lifting tool	Failure of lifting tools	Use tested / Certified (Quarter Color Coded) tools Deploy trained manpower.