



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date: 28.02.2018	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.
- 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:**

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



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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.