



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/109
Issued By: M.R		Approved By: HOD Mechanical	
Bucket elevator boot jam removal due to power cut			

**Scope:** Bucket Elevator Maintenance & Inspection

**Responsibility:** General Fitter

**Accountability:** Mechanical-Section Engineer

**PPE:**

1. Safety helmet.
2. Safety shoe.

**TOOLS:**

1. Box spanner set
2. Ring spanner set
3. Chain Block
4. Wire rope slings
5. Manila / Nylon rope
6. "D" Shackle.
7. Local stop Key.

**Hazard Analysis:**

Risks associated:

Heavy Material

Auxiliary Drive May start

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Mitigating Measures

: Use of Chain blocks & Ropes

: 1) Keep the Auxiliary LPB is visibly locked & controlled.

: 2) Check and conform the Auxiliary derive LPBs (both top & bottom) are working.

**SOP for the Bucket elevator boot jam removal due to power cut**

1. Stop the Bucket elevator & take the Line clearance of the main drive. With LOTO system
2. The LOTO key and line clearance paper should be with the person who responsible for job
3. Take General work area permit from the relevant department.



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4. Use PPE.
5. Engage the B/E Auxiliary drive clutch with the main gearbox.
6. Start the Auxiliary drive in local mode and check the healthy signal of boot level switch.
7. If it is not showing healthy signal open the bottom boot door.
8. Again Start the Auxiliary drive in local mode and check the healthy signal of boot level switch.
9. If it is healthy close the boot door.
10. Clear the Line clearance and take trial.

#### 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. Refer Line clearance certificates.
2. JSA as enclosed below

<b>Job Safety Analysis</b>	Job: <b>Bucket Elevator Maintenance / Inspection</b>	Date: <b>20/10/2012</b>	Analysis by: <b>Section Engineer</b>	Reviewed by: <b>Section Head</b>
Title of employee doing job: <b>Fitter</b>	Supervisor: <b>Section Engineer (Mech.)</b>	Department: <b>Mechanical</b>	Section: <b>Pyro.: RVRM; CVRM; Packing Plant</b>	Approved by: <b>HOD Mech.</b>
Req'd /recommended PPE:				
<b>Sequence of Basic Job Steps</b>	<b>Potential Hazards</b>	<b>Recommended Safe Job</b>	<b>What Could Go Wrong</b>	<b>Corrective Action</b>



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### Bucket elevator boot jam removal due to power cut

		Procedure		
Opening inspection	Material May flush	Ensure the BOOT empty or keep the way to escape from the flushing Material	Material in Boot may release suddenly	Don't open all the bolts of the door, keep some bolts loosen at its place. Empty out without flushing
Open the inspection door	Loose material may fall from top of the Maintenance doo	Tap the casing before opening the inspection door to release loose material	Material may fall on the working personnel	Don't engage anybody at the top(Drive station)
Bucket may fall during handling for replacement.	Fingers trap	Use Suitable tools to handle (Chain Block, slings, etc...)	Slings & chain tightening.	Take care of fingers at nip points

S L N o	Activity	Isolation Matrix							
		Isolation Type							
					<b>Electrical Energy</b>			<b>Other Energy</b>	
1	<b>Bucket elevator internal inspection</b>	Name and Tag for the Equipment	<b>Drive For The Elevator</b>	<b>Feeding Equipment for the Elevator.</b>	<b>Elevator discharge Air RSLIDE FAN</b>	<b>Bag Filter related to the Elevator</b>			