



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	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:

Mitigating Measures

Heavy Material

: Use of Chain blocks & Ropes

Auxiliary Drive May start

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

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: 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

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



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		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							
					Electrical Energy			Other Energy	
1	Bucket elevator internal inspection	Name and Tag for the Equipment	Drive For The Elevator	Feeding Equipment for the Elevator.	Elevator discharge Air RSLIDE FAN	Bag Filter related to the Elevator			