



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### Mechanical SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/054
Issued By: M.R		Approved By: HOD Mechanical	
BUCKET ELEVATOR JAM REMOVAL			

**Scope:** Becket Elevator Jam Removal

**Responsibility:** Shift Fitter

**Accountability:** Mechanical-Section Engineer / Shift Engineer

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Nose Mask,

**TOOLS:**

1. Box spanner
2. Ring spanner
3. Tool Bag
4. Shovel (MANVETTY)
5. Torch light / Hand Lamp.

**Hazard Analysis:**

Risk associated	Mitigation Measures
Mild rotation of B/E chain / Belt	Don't enter in boot, Use and clean with proper tools only (shovel etc....)
Auxiliary drive may start	Keep the Auxiliary drive Local push button in control of the Fitter only

### SOP for the Bucket elevator jam removal

- 1) Stop the Bucket elevator & take the Line clearance of the drive & Incoming Equipment.
- 2) Remove the B/E discharge inspection doors
- 3) If it is jam Remove the jam inside the discharge chute; Identify the SOURCE for the jam.
- 4) Clear the material in BOOT (By use proper tools), ensure free movement of the Tail station perfectly, and close the inspection door.



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5) Empty the material with Auxiliary drive and ensure liberated rotation

6) Clear the permits grant for operation.

#### **Emergency / Emergency Shut OFF:**

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

SL No	Activity			Tag / Name of the Equipment							
				Isolation Type							
				<b>Electrical Energy</b>						<b>Other Energy</b>	
13	<b>Reject Bucket Elevator</b>	Name and Tag for the Equipment		<b>Elevator Main Motor</b>		<b>Feeding Equipment for B/E</b>		<b>Discharge Equipment for BE</b>			



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<b>Job Safety Analysis</b>	Job: Bucket Elevator jam removal	Date:20/07/2012	Analysis by: Salihamin	Reviewed by: Y.V.N.Sai
Title of employee doing job: Shift fitter	Supervisor: Shift Engineer / Section Engineer	Department: Operation / Mechanical	Section: Applicable for All Bucket Elevators.	Approved by: Mohamed Ali

Req'd/recommended PPE:

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Open the inspection doors.	Material may flush from inspection door.	Don't stay in front of the door during opening	1) Door may open suddenly / forcedly.  2) Material may be in hot condition.	1) Keep some bolts at loosen condition to hold the door until the material flush.  2) Prevent by using proper Hand gloves & leg guards
Clear The Jam Discharge Chute / Boot	Mild rotation / movement of Buckets during cleaning	Use Proper Tools	Material may flush(if it fines)	Attend cleaning activity from sides( make way to escape if required)
Boot cleaning	Material may spill from top	Don't enter in to the Boot	Insufficient access to clean entire Boot	Use long handled Shovels (similar tailor made Tools)
Empty out the elevator	Dust may spared all around	Keep all the doors in close condition before emptying)	-Nil-	