



## DALMIA CEMENT (B) LIMITED – Ariyalur

### MECHANICAL

|              |             |                           |             |
|--------------|-------------|---------------------------|-------------|
| Issue No. 02 | Rev. No: 00 | Effective Date:01-11-2019 | SOP/MEC/100 |
|--------------|-------------|---------------------------|-------------|

|               |                              |
|---------------|------------------------------|
| Issued By: MR | Approved By: HOD-Mechanical. |
|---------------|------------------------------|

### MAINTENANCE OF VIBRO FEEDER

**Scope:** Maintenance of Vibro feeder

**Responsibility:** Mechanical Section Engineer

**Accountability:** Mechanical-Section Manager

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Mask.
4. Cotton Knitted hand Gloves.
5. Ear Plug
6. Safety belt
7. Goggles

**TOOLS:**

1. Tool Box with Spanner set Both DE & Ring.

**Hazard Analysis:**

**Risks associated:**

**Moving of the Equipment**

**Mitigating Measures**

**Lock the Movement manually & locally while requirement.**

**Training needs:**

1. Usage of tools and Nature of Hazards
2. Usage of PPEs

**Procedure:**

- a. Take electrical shutdown permit with LOTO system.
- b. The Permit Paper should be with the person who is responsible for the job.
- c. Trained Worker will be engaged for working with related PPE's.
- d. Clearing / emptying the hopper and close the door to prevent further fall of material
- e. Use certified Tool and Tackles to lock the chain block to arrest the movement of the vibro feeder.
- f. Remove the damaged/old spring and change the new one.



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- g. Check the hook condition, change if requires
- h. Provide extra certified sling for additional hanging support to vibrofeeder.
- i. Remove the chain block and open the door
- j. Clear the line clearance and trial to be take local mode
- k. Give the clearance to CCR.

#### Emergency / Emergency Shut OFF:

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

#### Records/Annexure:

- 1. JSA is enclosed below.

#### JOB SAFETY ANALYSIS :( JSA)

| Job Safety Analysis   | Job: Maintenance<br>Of Vibro feeder | Date: 01/09/2014                     | Analysis by:<br>Section<br>Engineer   | Reviewed by:<br>Section Manager                        |
|---|-------------------------------------|--------------------------------------|---------------------------------------|--|
| Title of employee doing<br>job: Fitter                            | Supervisor:<br>Section Engineer     | Department:<br>Mechanical            | Section: Plant                        | Approved by: HOD<br>Mechanical                         |
| Req'd/recommended PPE: Safety helmet, Safety shoe, & Safety belt. |                                     |                                      |                                       |  |
| Sequence of Basic Job<br>Steps                                    | Potential<br>Hazards                | Recommended Safe<br>Job Procedure    | What Could Go<br>Wrong                | Corrective Action                                      |
| Close the feed door   | Hand Injury                         | Use proper spanners<br>to avoid slip | Spanners may<br>slip and hit<br>hands | Check the condition<br>of the bolt ,nut and<br>spanner |
| Arrest the Vibro feeder<br>movement                               | Body Injury                         | Use proper tested<br>Chain blocks    | Chain may cut                         | Ensure Test<br>certificate and<br>Arresting Load.      |



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|                            |             |                 |                               |                  |
|----------------------------|-------------|-----------------|-------------------------------|------------------|
| Remove the Damaged Springs | Hand Injury | Use Hand Gloves | Spring may scratch the finger | Use PPE Properly |
| Change the Hook If damaged | Hand Injury | Use Hand Gloves | Hook may scratch the finger   | Use PPE Properly |

| SL NO | ACTIVITY                 |                                | RVRM Isolation matrix         |  |  |  |  |                            |  |  |
|-------|--------------------------|--------------------------------|-------------------------------|--|--|--|--|----------------------------|--|--|
|       |                          |                                | Type of isolation             |  |  |  |  |                            |  |  |
|       |                          |                                | ELECTRICAL ENERGY             |  |  |  |  | OTHER ENERGY               |  |  |
|       |                          |                                |                               |  |  |  |  |                            |  |  |
| 6     | Vibro feeder Maintenance | Name and Tag for the Equipment | Isolate Vibration Motor Drive |  |  |  |  | Isolate the Spring Tension |  |  |