



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### MECHANICAL SOP

|  |             |                             |             |
|--|-------------|-----------------------------|-------------|
| Issue No. 02                                   | Rev. No: 00 | Effective Date: 01.11.2019  | SOP/MEC/075 |
| Issued By: M.R                                 |             | Approved By: HOD Mechanical |             |
| SOP FOR THE REPLACEMENT OF DPC PAN WITH ROLLER |             |                             |             |

**Scope:** To replace the DPC Pan & Roller

**Responsibility:** Engineer.

**Accountability:** Section Head.

**PPE:**

1. Safety helmet.
2. Safety shoe.
3. Mask.
4. Safety goggles.
5. Gloves.
6. Ear plugs.

**TOOLS:**

1. spanner set
2. Crowbar

**Hazard Analysis:**

**Risks associated:**

**Mitigating Measures**

Fall of person

Avoid oil spillage, if spilled clean it immediately.

- Empty of the material from the pans and stop the DPC
- Take the LOTO for the DPC and inlet / outlet feeding drives
- Take the hot work permit.
- Use PPE's (leather hand gloves, hand gloves, goggles, dust mask, safety shoes)
- Allow the persons to work, clean the working place and remove safety guards
- Hang the tested chain block above the bucket; tie the tested wire rope sling to the bucket.



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- Remove the pan holding bolts with proper care and attention.
- Lift the pan with chain block with proper care and attention.
- Remove the pan with rollers with proper care and attention.
- Fixed the new pan with rollers with proper care and attention.
- Tightening the pan holding bolts as per specified torque.
- Release the chain block and cross check the sitting of the roller of the rail.
- Remove the chain block, scrap material, manpower and fix the safety guards.
- If want to replace another bucket LOTO to be cleared and after taking the position take LOTO again follow same steps as above.
- Clear the LOTO and inform to the CCR, operator in local mode and check any abnormality.
- Give the clearance to CCR operator run DPC auto mode.
- After 8 hrs of operation check the bolt condition and refight.

#### **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:**

JSA is enclosed below.



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### JOB SAFETY ANALYSIS :( JSA)

|   |  |                         |  |                                |
|---|--|-------------------------|--|--------------------------------|
| <b>Job Safety Analysis</b>                        | Job: Replacement DPC<br>Bucket or roller | Date: 01 – 09 -<br>2013 | Analysis by:<br>Section<br>Engineer            | Reviewed by:<br>Section Head   |
| Title of employee doing job :<br>Section engineer | Supervisor:<br>Section Engineer          | Department:<br>Mech     | Section: Raw<br>Mill, Cement<br>Mill Coal mill | Approved by:<br>HOD Mechanical |

| Sl. No | Sequence of Basic Job Steps.        | Potential Hazards. | Recommended Safe Job Procedure. | What could go wrong?   | Corrective action.                        |
|--------|-------------------------------------|--------------------|---------------------------------|------------------------|---|
| 1      | Bucket or roller bolts removing.    | Fingers may entrap | Hold at the proper place        | May fall down          | Use lifting tackles                       |
| 2      | Bolts Loosening or tightening       | Hand may entrap    | Work with more comfort          | Dust may fall on eyes. | Clean the spot before start & use Goggles |
| 3      | Rotation in between for positioning | Unexpected run     | Do not compromise of LOTO       |                        |   |