



DALMIA CEMENT (B) LIMITED – ARIYALUR MECHANICAL DEPARTMENT



Issue No. 01

Rev. No: 02

Effective Date: 17.10.2017

SOP/MECH/062

Issued By: M.R

Approved By: HOD (Mechanical

SOP-JSA FOR WEIGHFEEDER BELT REPLACEMENT

Scope : This SOP is applicable to Safe working for Weigh Feeder Belt Replacement.

Responsibility : **Section Engineer – Mech.**

Accountability : **Section Incharge – Mech.**

PPE:

1. Helmet,
2. Safety shoe,
3. Safety belt,
4. Safety goggles.
5. Asbestos Gloves.

Tools:

1. chain block-1no
2. Web (Nylon) slings-2Nos.
3. Box Spanner set
4. Ring Spanner set

Hazards:

Risks associated

Body injury

Mitigating Measures

safe and tested tools and tackles

Training needs:

1. Fire fighting
2. Emergency preparedness
3. Assembly procedure

Procedure:

1. Planning and informing to CCR for making hopper empty.
2. Use PPE's while working.
3. Closing the hopper pin gates.
4. Ensure to take line clearance for weigh feeder & Hopper Feeding Conveyor.
5. Loose the take up adjustment bolts completely.
6. Remove the skit rubber and top hood.
7. Arrange chain block for hold the weigh feeder.
8. Remove the weigh feeder bottom base supports at one side.
9. Arrange lifting tackle of weigh feeder.
10. Remove old belt manually.
11. Clean the roller with air (Blower).
12. Check all rollers are rotating freely.
13. Insert the new belt sleeve and fix the base supports.
14. Fix the top hood and skit rubber Boards & rubbers.
15. Tension the belt suitably and remove chain blocks.
16. Clear the line clearance for weigh feeder drive.
17. Adjust the belt to run at center of the Head & tail drums.
18. When belt obtain center position weight calibration to be done.



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19. Once the calibration is completed to open the hopper gates Pins, give clearance

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. Refer Line clearance/permit in Mechanical department.
2. JSA is enclosed below.

JOB SAFETY ANALYSIS: (JSA)

| Job Safety Analysis | Job: Weigh Feeder Belt Replacement | Date: 01 – 09 - 2014 | Analysis by: Section engineer | Reviewed by: Section Head |
|--|------------------------------------|---|---|---|
| Title of employee doing job: Site in charge (Shree) | Supervisor: Section Engineer | Department: Mech. | Section: Cement Mill | Approved by: HOD Mechanical |
| Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles & Asbestos Gloves. | | | | |
| Sequence of Basic Job Steps | Potential Hazards | Recommended Safe Job Procedure | What Could Go Wrong | Corrective Action |
| Shifting of Endless Belt To working | Leg and hand injury | Use Hydra to shift the endless belt to the working spot | Endless pipe may rotate/unbalance and may fell down | 1. Use guide rope to control the unbalance of endless belt |
| Removal of Safety guard, Skirt rubber, Side skirt And Support for weigh feeder | Hand injury Leg injury | Use proper lifting tools to lift the material | Material may slip during removing | Ensure the person Lifting the material as per lifting procedure |
| Cutting and Removal of old belt from weigh Feeder | Hand injury | Use proper cutting tool and Hand gloves to cut the belt | Cutting tool may be cut the hand during cutting of old belt | Ensure the person wearing safety hand gloves |
| Position of the chain blocks for lifting the weigh feeder for removing old belt and inserting new belt | Leg and hand injury | Use correct lifting Tackles Teflon/wire rope slings | Chain block may slip and fall while removing and inserting the belt | 1. Check the condition of the ropes and slings 2. Check the correct size of slings to operate/actual capacity and ensure certificate of clearance. |



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Isolation Matrix:

| SL No | Activity | | | | Isolation Matrix for Utility & General Equipment. | | | | | | | |
|-------|--------------------------------|--|--------------------------------|--|---|--|--|--|--------------|-------------------------|--|--|
| | | | | | Isolation Type | | | | | | | |
| | | | | | Electrical Energy | | | | Other Energy | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 1 | Weigh Feeder Belt replacement. | | Name and Tag for the Equipment | | Feed Belt feeding for the same Hopper | | | | | close the Pin Gate PINS | | |