DalmiaBHARAT CEMENT

DALMIA CEMENT (B) LIMITED - ARIYALUR

MECHANICAL SOP

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/067

Issued By: M.R Approved By: HOD Mechanical.

BELT CONVEYOR

Scope: <u>Idler / Pulley Replacement</u>

Responsibility: Shift Fitter

Accountability: Mechanical-Section Engineer / Shift Engineer

PPE:

1. Safety helmet.

- 2. Safety shoe.
- 3. Hand Gloves.
- 4. Safety Goggles.

TOOLS:

- 1. Box spanner set
- 2. Ring spanner set
- 3. Chain block
- 4. Belt clamp with bolt & nut
- 5. Sling & D shackle.

SOP FOR IDLER/PULLEY REPLACEMENT

- 1. Empty out the belt if the material is inside the belt.
- 2. Take line clearance for the drives.
- 3. Use PPE's while working.
- 4. Any material spillage is their put it inside the circuit.
- 5. Lift or lose the take-up to reduce the belt tension.
- 6. Take height work permit if it required.
- 7. Remove the old idler or pulley.
- 8. And fix the same in the center line of the conveyor.
- 9. Make the belt tension by take-up.
- 10. Use manual pumps or funnel for filling or draining the oil to reduce the oil spill.
- 11. Clear the LC, Return the work permit.
- 12. Take trail for the belt.



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BELT CONVEYOR

Emergency / Emergency Shut OFF:

1. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

- 1. Refer Line clearance in Process department.
- 2. JSA is enclosed below.

Isolation Matrix:

SL Activity			Isolation Matrix for Utility & General Equipment.						
No Activity				Isolation Type					
				Electrical Energy			Other Energy		
1	Conveyor Idler/Pulley Replacement	Name Tag i the Equipn	for	Drive for the Equipment	Feeding Equipment.				

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Belt Conveyor Idler/Pulley Replacement	Date: 01 – 09 – 2014.	Analysis by: Section Engineer.	Reviewed by: Section Head.
Title of employee doing job: Shift fitter	Supervisor: Shift Engineer / Section Engineer	Department: Operation / Mechanical	Section: Applicable for All Belt conveyors	Approved by: HOD- Mechanical.

Reg'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles & Cotton hand Gloves.

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
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Lifting the take up	Hand injury	Use good Chain	Chain blocks/	Check the condition
Litting the take up	Tiana injury	blocks/slings/ D shackle to lift the take up.	slings/D shackle may be in damage condition	of lifting tools.
Tightening the Belt clamp.	Hand injury.	Use proper spanners only to avoid slip / shear of bolt and nut during tightening.	Spanners may slip and chance to fall bolt may shear / cut during load.	Use correct size and condition of spanner.
Removing & Fixing the Idler/pulley	Hand injury	Use proper Zugard for holding or lifting idler/pulley while fixing	Holding pipe may slip during fixing	Use correct holding pipe or Zugard.
Removing the clamp	Body injury	Use proper spanners only to avoid slip / shear of bolt and nut during opening.	Spanners may slip and hit hands while opening. bolt may shear / cut during load	Check the condition of the bolt / nut and spanner
Releasing the take up.	Hand injury.	Use good Chain blocks/slings/ D shackle to down the take up.	Chain blocks/slings/D shackle may be in damage condition	Check the condition of lifting tools