



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/160
Issued By: M.R		Approved By: HOD Mechanical	
SOP FOR USING OF FLEX LIFTER FOR BELT CONVEYOR MAINTENANCE			

Scope: Using of Flex Lifter to replace the idlers and CBA maintenance

Responsibility: Fitter/ Welder/ Supervisor

Accountability: Mechanical-Section Engineer / Section Head

PPE:

1. Safety helmet.
2. Safety shoe.
3. Nose Mask.
4. Hand Gloves.
5. Goggles.

TOOLS:

1. M12 Ratchet spanner

Hazard Analysis:

Risks associated:

Mitigating Measures

Slip of tools : Use appropriate tools

Slip of Flex lifter : Use appropriate gloves & lift by at least two persons

SOP FOR S

1. Take all necessary work permits and Loto for using the flex lifter
2. Use ppe's while working.
3. Check the conveyor belt for condition and weak portion
4. Flex lifter should not be used in conveyor belts having weak joints and damaged portion
5. Carry the flex lifter by using a cart to the maintenance place.



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6. Asses the working area for any inclination of conveyor belt
7. Ensure all material is emptied out in belt conveyor to avoid slippage of belt conveyor in return.
8. Lock the conveyor belt in by using belt clamps in head end and tail end side
9. Tight the belt clamps with proper packing between the angle
10. Clean the stinger channel area where flex lifter is going to kept
11. Keep the flex lifter vertically / perpendicular to conveyor belt
12. Adjust the flex lifter base as per width of stringer channel and it shall be loaded on channel
13. Lift by using ratchet spanner
14. Lift the belt for required height only not beyond 300 mm height.
15. Do not keep your head unnecessarily in lifted portion
16. Remove old idler and fix new one for idler replacement / For CBA maintenance, do calibration /cleaning.
17. After finishing the job, lower the belt lifter slowly and take it away
18. Remove the belt clamps in both head end and tail end
19. Clear the work permit and Loto permit
20. Take the trail

Emergency / Emergency Shut OFF:

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



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Records/Annexure:

1. JSA as enclosed below

Job Safety Analysis	Job: Crusher tooth segment hard facing job	Date: 06/05/2019	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Using Flex lifter	Supervisor: Section Engineer	Department: Mechanical	Section: Crusher	Approved by: HOD Mechanical
Req'd/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Keeping the flex lifter in stringer channel	Slippage of flex lifter - Hand /Leg injury	To be lifted by two or more persons	Unbalance / slipping of flex lifter	Sufficient Man power to keep the lifter in stringer frame
Doing the maintenance in vertical lifted portion	Toppling of flex lifter - Head injury	After ensuring the locking of belt, idler to be replaced	If belt slipped by load and running, flex lifter would get toppled and may cause potential fatal /severe injury	Loto to be taken for drive and Belt clamps to be used to lock the belt moving in both head and tail end direction
While lifting the flex lifter	Falling of material (belt) - Hand injury	Usage of flex lifter in weak conveyor belt to be avoided	While lifting in weak conveyor belt, belt may cut and cause severe injury	Check the any weak portion and belt condition before starting the job



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