



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/001
Issued By: M.R		Approved By: HOD Mechanical	
SOP-JSA for DEEP PAN CONVEYOR			

Scope: Replacement of Rail / Roller for the DPC

Responsibility: Section Engineer

Accountability: Mechanical-Section Incharge

PPE:

1. Safety helmet,
2. Safety shoe,
3. Hand gloves.

TOOLS:

1. Box spanner set.
2. Ring spanner set.
3. ChainBlocks.
4. Wire rope slings.
5. Line dory.
6. Water level.
7. Manila / Nylon rope.
8. "D" Shackle.
9. Puller.

Hazard Analysis:

Risks associated: : Mitigating Measures

Body Injury : Use proper tools and tackles

SOP for the replacement of the DPC Rail & Roller

- a. Empty out the material in the pans and stop the DPC.
- b. Take Electrical Shutdown for the same and for all other Incoming & Out going Equipment.
- c. Attain all the required permits (General / Hot / Height work, The Permit Papers should be with the person (fitter) working at site.
- d. Trained Worker should be engaged for working with related PPE's.
- e. Use Certified Tools & Tackles for the job.



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- f. Hang the Chain block above the bucket, tie wire sling around the buckets.
- g. Lift the buckets with the chain block.
- h. Remove & Re-fix the rail as per the center line of DPC.
- i. Remove the MS locking bolt and take out the roller from the clit with hammering slightly or by using puller.
- j. Fix the new Roller into the clit and fix the MS locking bolt.
- k. Release the chain block and cross check the sitting of the roller on the rail.
- l. Remove the chain block.
- m. Clear all the tools & Material from the spot.
- n. Take a trail run.
- o. Clear the LC and inform to the CCR

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

Records/Annexure:

1. Refer Line clearance certificates.
2. JSA as enclosed below

S L N O	Activity			Isolation Matrix for Utility & General Equipment.							
				Isolation Type							
				Electrical Energy				Other Energy			
7	DPC Maintenance	Name and Tag for the Equipment	Drive for the DPC	Feeding Equipment In closed condition for DPC	Post Equipment for DPC	Close All Pins of the PIN Gate	Slide gates for the feeding Equipment.				



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Job Safety Analysis	Job: Deep Pan Conveyor Maintenance	Date: 01/09/2012	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor: Section Incharge	Department: Mechanical.	Section: Pyro. & Cement Mills	Approved by: HOD Mech.
Req'd/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Remove the safety guards	Leg injury	Use proper tools Lifting tools	Tools / Guard may slip	Ensure proper tools & tackles in usage
Remove or refit the rail – rail gouging	Burn Injury	Keep the working area free from flammable	Sparks may ignite the cloths / flammable material	Ensure the work man is to keep away and ensure the work area free from flammables. Check the availability of fire extinguisher
Removal of old rails	Body injury	Use proper slings	Rail / tools may slip	Use web slings with proper tightness.
Fixing of new rails	Body injury	Hold with supporting rope	Rail / Rope may slip	Hold the rope by using proper rigid support. Ensure the tools condition
Fixing the safety guards	Leg injury	Use proper tools Lifting tools	Tools / Guard may slip	Ensure proper tools & tackles in usage