



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/180
Issued By: M.R		Approved By: HOD-Mechanical	
SOP for Replacement of mill feed flap gate			

Scope: Replacement of mill feed flap gate 361MW01

Responsibility: Section Engineer

Accountability: Mechanical-Section In-charge

PPE:

1. Safety helmet,
2. Safety shoe,
3. Safety harness(Full body)
4. Nose Mask,
5. Hand gloves
6. Safety goggles

TOOLS:

1. Box spanner set.
2. Ring spanner set.
3. Pipe wrench
4. Crowbar
5. Slings
6. D-shackles
7. Manila / Nylon rope.
8. Chain block

Hazard Analysis:

Risks associated

Fall from height,

Hand or Leg slipping

Fall of chain Block

Fall of tools,

Use proper tools and tackles

: Mitigating Measures

Use of safety harness

Locking the movement of flap gate

Use certified chain block as required

Carry the tools in tool box/bag

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1. Take Loto for mill feed belt 331BC01 Electrical energy.
2. Take Loto for mill feed flap gate 361MW01 Pneumatic energy
3. Take Loto for Triple flap gate 361RV01
4. Remove the coating in 331BC01 discharge chute.
5. Close the Air Valve and emptied the pipe line pressure.
6. Take Relevant permits for **Replacement of mill feed flap gate 361MW01**
7. Use ppe's while working
8. Fix the chain blocks in hooks by certified slings.
9. Open the flange bolts.
10. Remove the old flap gate and keep in one side corner.
11. Fix the new flap gate.
12. Fix the flange bolts and tight to required torque as per bolt grade.
13. Check free movement by opening & closing
14. Checking of oil level in FRL unit Lubricator
15. Clear all LOTOs taken for flap gate replacement.
16. Clearance given for operation

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:



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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	Replacement of mill feed flap gate	Name and Tag for the Equipment	Drive for the Feeding Equipment	Drive for the Discharge Equipment					Close the Pneumatic Cylinder operating airline		

Job Safety Analysis	Job: Replacement of mill feed flap gate	Date: 24/04/2020	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor: Section Incharge	Department: Mechanical.	Section: Raw Mill	Approved by: HOD Mechanical.



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Req'd/recommended PPE:

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Open & Close the inspection Door	Hand injury	Use proper tools Lifting tools	Tools may slip	Ensure proper tools & tackles in usage
Remove & Fixing FRL unit	Hand injury	Use proper tools Lifting tools	Tools may slip at that time of pipe line removing & fixing	Ensure proper tools & tackles in usage
Flange bolts removing	Hand and Leg injury	Remove the cutting Pieces with Gloves	Cutting piece fall on Hand and Leg	Use Skilled cutter & Lifting person
Fixing the chain block	Hand and Leg injury	Follow standard work procedure for fixing the chain block	Material may slip during lifting chain block	Ensure the person Lifting the material as per lifting procedure
Removing & Fixing the flap gate	Hand injury	Use proper tools Lifting tools	Flap gate, Tools may slip	Ensure proper tools & tackles in usage
Tight the flange bolts	Hand injury	Use proper tools Lifting tools	Tools may slip	Ensure proper tools & tackles in usage
Remove the chain block	Hand and Leg injury	Follow standard work procedure for removing the chain block	Material may slip during lifting chain block	Ensure the person Lifting the material as per lifting procedure