



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
MECHANICAL**



Issue No. 01	Rev. No: 02	Effective Date: 17.10.2019	SOP/MEC/008
Issued By: M.R		Approved By: HOD-Mechanical	
SOP-JSA FOR AIRSLIDE CLOTH REPLACEMENT			

Scope : This SOP is applicable to Safe working for Airslide cloth Replacement

Responsibility : Section Engineer.

Accountability : Section Head-Mechanical

PPE:

1. Safety helmet,
2. **Safety shoe.**
3. Dust Mask,
4. Hand Gloves
5. Safety Goggles

Tools:

1. 01T chain block-1no
2. Nylon Web slings- 2Nos.
3. Rope-2 nos
4. DE/ Ring Spanner set.
5. Clamp suitable to the width of Air slide cloth.
6. Hole Punch(Hole Bari)

Auxiliaries

1. Cutting Set

Hazards:

Risks associated

Body injury

Mitigating Measures

- 1.Safe and tested tools and tackles
2. on job training

Training needs:

1. Emergency preparedness
2. On job training



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Line Clearance required for:

1. Feeding RALs for the Connecting Equipments.
2. Related air slide blower.

Procedure:

1. Airslide box inside material clean with help of related blowers
2. Take electrical shutdown permit for connecting Equipments,
3. The Permit Paper should be with the person who is attending the job.
4. Trained Worker will be engaged for working with related PPE's.
5. Take General work permit and hot work permit to perform the job.
6. Use ppe's while working.
7. If cloth in damaged condition , Remove the air slide box air chambers
8. Remove the air slide blower connection pipe line
9. Remove the damaged cloth.
10. Replaced the new cloth.
11. Tension the new cloth with approximately 2% elongation in the air chamber with the help of chain block or any tensioning device.
12. Fix the bottom air chamber.
13. Top and bottom chambers covers to be tightened to avoid leakage.
14. Fix the air slide blower connecting pipeline
15. Clear the connecting drive and air slide blower line clearance.
16. Get the line clearance and inform to CCR to run the equipment.



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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/permit in mechanical department.
2. JSA is enclosed below.
3. Isolation Matrix.

SL No	Activity			Isolation Matrix for Utility & General Equipment.							
				Isolation Type							
				Electrical Energy				Other Energy			
4	Air Slide cloth replacement	Name and Tag for the Equipment		Air slide Blower	Feeding RAL for the same			Slide Gate After RAL.			



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Job Safety Analysis	Job: Airslide cloth replacement	Date: 20/09/2012	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Fitter	Supervisor: Section Engineer	Department: Mechanical	Section: Mills	Approved by: HOD-Mechanical
Req'd/recommended PPE: Safety Helmet, Safety shoe, Hand Gloves, Safety goggles. Nose mask.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Air slide box cleaning before starting work	Eye & nose Irritation	Use Nose Mask, Safety goggles' & Hand gloves while cleaning	Dust escape from the box and puffed eyes & nose	Workmen should use proper PPEs before entering the job
Air slide box bottom air champer removing work	Hand & body injury	Lock the airchamper with proper ropes and loosen the bolts with suitable spanner	Rope damaged and the box fall on hand, Spanner slipped and chance to fall	Ropes should be checked and suitable spanner to be used



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Air slide blower connection pipe line removing work	Body injury	Use proper spanners only to avoid slip / shear of bolt and nut during loosen the fasteners	Spanners may slip and chance to fall	Use correct size and condition of spanner(prefer ring spanner)
cloth changing work	Body injury	Use proper chainblocks,ropes, tools required to tension the cloth and fasteners fixing	Chain block slipped and hit the body,	Inspect the condition of lifting equipments. 1. Lifting ropes / Belts 2. Chain block a)Periodical replacement is recommended for ropes b)Use tested(with in the due date) Chain blocks c)Workmen should competent to lift the machines and tools
Air slide box bottom air chamber fixing work	Hand injury	Lift the box with proper ropes	Rope cut and fall on hand	check the Ropes and use min.2ropes



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Air slide box bolt tightening work	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
Air slide blower connecting pipeline re-fixing work	Body injury	Use proper spanners only to avoid slip / shear of bolt and nut during tightening	Spanners may slip and chance to fall downbolt may shear / cut during load	Use correct size and condition of spanner
Old air slide cloth and tools removed from the job location	Body injury	House keeping done after completion of work	Poor House keeping lead fall down	Housekeeping done after completion of work