



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date : 30.10.2020	SOP/MECH/205
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR Imported shredder blade hard facing			

Scope : This SOP is applicable to Safe working for Imported shredder blade hard facing

Responsibility : **Section Engineer – Mech.**

Accountability : **Section Manager – Mech.**

PPE:

1. Helmet,
2. Safety shoe,
3. Ear plug,
4. Safety goggles.
5. Rubber hand Gloves.
6. Hand Gloves.
7. Nose mask.
8. Welding helmet

Tools:

1. Box Spanner set
2. Ring Spanner set
3. Welding machine with cables (Direct earth).
4. Shaft rotating tools
5. Waste for cleaning



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date : 30.10.2020	SOP/MECH/205
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR Imported shredder blade hard facing			

Hazards:

Risks associated

Electrical shock

Mitigating Measures

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

Training needs:

1. Fire fighting
2. Emergency preparedness
3. Electrical prevention training
4. Assembly procedure

Procedure:

1. Stop the shredder & put in local mode
2. First take the Door opening with hydraulic (local mode operation).lock with mechanical arrangement to lock the door in open condition.
3. Take the Mechanical LOTO for imported shredder
4. Clean the blades & shaft. Remove the all materials



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date : 30.10.2020	SOP/MECH/205
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR Imported shredder blade hard facing			

5. Fix the dummy plate at imported shredder discharge chute
6. Make the accessories ready for hard facing like welding electrodes and cables
7. Take before measurement reading of shredder blades using with template
8. And start the hard facing up to met desired level
9. Then again take a measurement with template based
10. After finishing the one blade then rotate the shaft and same do above welding in other blades.
11. After that, remove all the welding accessories and cables.
12. Remove dummy plate, which fixed already.
13. Remove LOTO
14. Closing the door which operating hydraulic
15. Taking trial run and given clearance.
16. Electrical supply put on OFF of welding mirror. Clamp the pipes as required.
17. Clear the loto for temporarily to take the leakage testing,if the any leakage again same procedure to be followed if not there clear closed the work permits and clear the loto .

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. JSA is enclosed below.



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date : 30.10.2020	SOP/MECH/205
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR Imported shredder blade hard facing			

2. Isolation Matrix.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Imported shredder blade hard facing	Date: 04- 04 - 2021	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Section Engineer	Supervisor: Section Engineer	Department: Mech.	Section: UTILITY	Approved by: HOD Mechanical
Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles, Ear plug, nose mask & Rubber hand Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Door opening	Hand injury	Using correct spanner & lock the door Use proper PPE and use the door opening key and spanner	Tools will be slip Tools will be slip	Ensure door condition. Ensure tools and tackles conditions
HDPE welding Mirror	Electrical shock	Fitness to be taken for the electrical equipments	Earth leakage or shock	Rubber hand gloves to be used
Bit rods	Resource usage	Waste electrodes to be removed by properly (hand over to stores)	Land contamination	clean the area

Isolation Matrix:



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date : 30.10.2020	SOP/MECH/205
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR Imported shredder blade hard facing			

SL No	Activity				Isolation Matrix for Utility & General Equipment.									
					Isolation Type									
					Electrical Energy						Other Energy			
1	Imported shredder blade hardfacing		Name and Tag for the Equipment		Isolate the Related other energy isolation							Isolate or closed the valves		

Isolate the Related other energy isolation

1. 485SR1 &2
2. 485CBC1
3. 485BC3