



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### MECHANICAL

Issue No. 02	Rev. No: 00	Effective Date: 01-11-2019	SOP/MEC/140
Issued By: M.R		Approved By: HOD-Mechanical	
SOP FOR COAL CRUSHER SEGMENT REPLACEMENT			

**Scope** : This SOP is applicable to Safe working for Coal crusher segment replacement.

**Responsibility** : Section Engineer – Mech

**Accountability** : Section Manager - Mech

**PPE:**

1. Safety Helmet,
2. Safety steel toe shoe,
3. Hand Gloves Cotton/Leather
4. Safety goggles.
5. Nose mask.

**Tools:**

1. 46 mm D- Spanner -2nos
2. Hammer
3. Wire brush

**Hazards:**

**Risks associated**

Body injury  
Cut injury  
Caught in-between

**Mitigating Measures**

Safe and health tools and tackles  
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1. Take the line clearance. Use LOTO system
2. The line clearance paper should be with the people who are working in the site.
3. Use PPE's while working
4. Take the shutdown of top and bottom belt conveyor
5. Open the top door.
6. Initial cleaning of crusher's rotor.



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7. Inspect and mark the worn out segment for replacement.
8. Both side inspection door has to be opened to hold the spanner for removing the segment
9. Loose the segment bolts.
10. Remove worn out segment.
11. Installed new segment with fastener.
12. Initial tighten all nuts
13. Close the side inspection door
14. Remove all tools and tackle.
15. Close the door and take the trial.

### Emergency / Emergency Shut OFF:

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.
2. Isolation Matrix.

### JOB SAFETY ANALYSIS :( JSA)

Job Safety Analysis	Job: Secondary crusher segments changing	Date: 27 – 09 - 2017	Analysis by Section Engineer	Reviewed by: Section Head
Title of employee doing job : Section engineer	Supervisor: Section Engineer	Department: Mech	Section: RMH	Approved by: HOD-Mechanical



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Reqd./recommended PPE's : 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
Open the inspection door	Body injury	Use only proper spanners to avoid slip / shear of bolt and nut during un screwing.	Spanners may slip and hit hands while un screwing. Bolt may shear/cut due to load	Check the condition of the bolt / nut and spanners.
Remove the segment	Hand injury	Use good Tommy bar to shake the segments from its location.	Tommy bar may be in damaged condition	Check the condition of Tommy bar
Fixing the segment	Hand injury	Use good Tommy bars to match the segments.	Tommy bar may be in damaged condition	Check the condition of Tommy bar
Close the inspection door	Body injury	Use only proper spanners to avoid slip / shear of bolt and nut during screwing.	Spanners may slip and hit hands while screwing. Bolt may shear/cut due to load	Check the condition of the bolt / nut and spanners

SL No	Activity	Isolation Type							
		Electrical Energy				Other Energy			
1	<b>Coal crusher Segment changing</b>	<i>Tag /Name of the Equipment</i>	Coal crusher - L11 CR 1 A & B	Belt conveyor - L11 BC 7					
			Belt conveyor - L11 BC 4						