# **Dalmia**BHARAT CEMENT

### DALMIA CEMENT (B) LIMITED - ARIYALUR



#### **MECHANICAL**

Issue No. 01 Rev. No: 00 Effective Date: 01-09-2017 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 Mitigating Measures

Body injury Safe and health tools and tackles Cut injury Safe and health tools and tackles Caught in-between Safe and health tools and tackles

- 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		
Coal crusher	Tag /Name	Coal crusher - L11 CR 1 A & B	Belt conveyor - L11 BC 7					
1	Segment changing	of the Equipment	Belt					
			- L11 BC 4					