DalmiaBHARAT CEMENT

DALMIA CEMENT (B) LIMITED - Ariyalur



MECHANICAL.

Issue No. 01	Rev. No: 02	Effe	ctive Date: 17.10.2017	SOP/MEC/33
7 ID 1/D			4 10 1100 15 1	

Issued By: M.R Approved By: HOD-Mechanical.

SOP FOR V-BELT REPLACEMENT

<u>Scope:</u> To replace V-belts <u>Responsibility:</u> Engineer/SH

PPE:

1. Safety helmet

- 2. Safety shoe
- 3. Mask
- 4. Safety goggles
- 5. Hand Gloves

TOOLS:

- 1. Screw driver
- 2. spanner set
- 3. Hydraulic jack

Hazard Analysis:

Risks associated: Mitigating Measures

Struck on rotor Use correct methods to remove

Fall of tools, Carry the tools in tool bags

Procedure:-

- a. Take the LOTO for the drive as per Isolation Matrix.
- b. The Work permit paper should be with the person who is working in the site.
- c. Removal of the drive guard.
- d. Loosen the Motor Base bolts & shift the motor by loosen the jack bolts to release the tension of the belts.
- e. Remove the V-Belts from small pulley.(For LS Crusher remove the Jack shaft bearing housing bolts, Coupling bolts & lift the Jack shaft)

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- f. Remove the V-belt from big pulley also.
- g. Clean the V-groves of both pulleys.
- h. Ensure length of the V-belts in a new set must be equal.
- i. Place the belts on Large & small pulleys.
- j. Fix the bearing Housing & coupling bolts for LS crusher Jack shaft.
- k. Give tension to the new belts by shifting motor & align the both pulleys.
- I. Tighten the motor base bolts.
- m. Place the Drive guard & take Trail after clearing the permits.

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:

Refer LOTO standards/permit & JSA is enclosed below.

JOB SAFETY ANALYSIS : (JSA)



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Job Safety Analysis	Job: V-Belt replacement	Effective Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head	
Title of employee doing job : Section engineer	Supervisor: Section Engineer	Department: Mechanical	Section: Utility & LSC	Approved by: HOD- Mechanical.	

Reqd./recommended PPE's : Safety Helmet, Safet shoe, Hand Gloves, Safety goggles. Nose mask.

SI. No	Sequence of Basic Job Steps	Potential Hazards	Corrective action		
1	Removal of Drive guard	Major Injury	Use proper PPE	Slip/fall of guard	Allot trained workers
2	Removal of V belts	Hand injury	Use proper tools	Struck of hand	Remove from small pulley first by loosening the motor base.
3	Fixing of V-Belts	Hand injury	Use proper tools & PPE	Cut/Struck of hand	Ensure V- grove sharp edges & deploy trained man power.
4	Lifting of Jack shaft	Major injury	Use proper tested hydraulic jack & PPE	Injury by slip of jack	Allot trained workers



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Isolation Matrix:

S. N o	Activity	Tag / Name of the Equipment							
		Isolation	Isolation Type						
		Electrical Energy	Other Energy						

1	V-Belt replac	Name and Tag for the Equipment	371 LP1 & 2 DIESEL PAUMP	371BL1 COAL BLOWER	371FP1 FK PUMP			
	ement							
			371 SD1 outlet damper	371SG1 Knife gate				