



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17/10/2017	SOP/MEC/102
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Issued By: M.R	Approved By: HOD Mechanical
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TORQUE SUPPORT INSPECTION

SOP FOR VRM TORQUE SUPPORT INSPECTION

Scope : This SOP is applicable to Safe working of Torque support inspection

Responsibility : **Fitter**

Accountability : Section Engineer.

PPE:

1. Safety helmet,
2. Safety shoe,
3. Safety Belt
4. Mask.
5. Asbestos Gloves.

Tools:

1. Box Spanner set
2. Ring Spanner set

Hazards:Risks associatedMitigating Measures

Falling of Men

Wear Safety belt

Training needs:

1. Emergency preparedness
2. Fire Fighting
3. Hydraulic jack operation

Procedure:

1. Take the LOTO for the following.

- a) Mill feed RAL
- b) Mill main drive
- c) Classifier drive
- d) Mill booster fan
- e) Mill fan
- f) Hydraulic tension unit (Ensure the roller position zero before LOTO)
- g) Inlet damper for hot gas entry

2. Before unscrewing the mill manual inspection door the following parameters to be checked.

a) Ensure the CSE permit standards inside the mill3 .Open the mill manual inspection door, scrapper chamber manual door, classifier manual inspection door and torque support buffer cap inspection door.

3 Check the condition of pin and cap. Measure the wear in the cap



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- 4) Check for nitrogen pressure in the buffer
- 5) Check for Bolts in the torque support
- 6) Check for the bullet pin
- 7) Clean the grease which is excess from the flanges
- 8) If any abnormalities, actions to be taken to rectify the same.
- 9) Close all the doors of the mill
- 10) Clear LOTO permit for start the Mill.

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 3108/9750963709/9750963761.

Job Safety Analysis	Job: Torque support removal	Date: 15 – 06 - 2012	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Fitter	Supervisor: Section Engineer	Department: Mechanical	Section: Raw Mill	Approved by: HOD

Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles, Safety Belt & Asbestos Gloves.

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Position of the plat form for torque support Torque support	Leg and hand injury	Use belt slings	Person may fall	1. Check the condition of the ropes and slings

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Isolation Matrix:

S L N o	Activity	Tag / Name of the Equipment									
		Isolation Type									
		Electrical Energy					Other Energy				
1	TORQUE SUPPORT INSPECTI ON	Name and Tag for the Equipme nt	361 MD2 Mill Main Motor	361SR1 Classifi er	361FN3 Mill Fan	361AS1u xiliary drive Chain not to be connecte d					
		Name and Tag for the Equipme nt	331BC1 Mill feed Belt	361FN3/ Booster fan	361 LD4 hot gas inlet louwer damper (In closed Conditio n)						
		Name and Tag for the Equipme nt	361SD2 hot gas inlet shut off damper (Inc losed Conditio n)	361LD5 Raw mill fan Out let Louwer Damper (Closed Conditio n)	Triple flap gate						