



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/167
Issued By: M.R		Approved By: HOD Mechanical	
SOP FOR RUNNING DPC INSPECTION AND MAINTENANCE			

Scope: Inspection and maintenance of DPC Pan & Rollers @ Running with Local operation

Responsibility: Engineer.

Accountability: Section Head.

PPE:

1. Safety helmet.
2. Safety shoe.
3. Mask.
4. Safety goggles.
5. Gloves.
6. Ear plugs.

TOOLS:

7. spanner set
8. Crowbar
9. Hammer
10. wrench 1/2-inch drive (Power / Pneumatic)

Hazard Analysis:

Risks associated & Mitigating Measures

Fall of person Avoid spillage, if spilled clean it immediately.

- Take General work permit for DPC pan bolt inspection & tightening work
- While running the DPC, we can stand at tail end for Pan replacement or left side and Right side of DPC at Specified places (Tail end, / both sides of DPC) To observe the pan holding bolt condition and pan condition
- If any abnormality observed, mark or note the pan number
- If required to replace the pan take General & hot work permit.



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- Get local mode from CCR for respective DPC
- After local operation position the pan in designated location for tightening the bolt

PAN BOLT TIGHTENING WORK

- Put the mushroom lock and pull cord switch also to be acted on both side
- Check & ensure trail run at that time DPC should not run
- Use PPE's appropriate for bolt tight / Cutting (hand gloves, goggles,)
- Remove the split type DPC rail guard at bottom sides only
- Working area to be cleaned for free of Spillage clinker if any before starting the job
- Allow the persons to work for tightening the pan bolt on both side. If Bolt found not getting tightened, Cut & replace the Bolt & Nut.
- Remove man & material, tools & tackles.
- Clear the pull cord on both side and clear the mushroom lock
- For positioning the another pan with local operation in designated location
 - The same procedure to be follow from a to i.
 - After completion of Job take of all Tools & tackles from the working area, Fix the Bottom Guard. Clear the LPB & Pull cord and release for operation.

PAN REPLACEMENT

- Take General & hot work permit
- Get local mode from CCR for respective DPC.



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- After local operation position the pan in designated location (Tail end) for Pan replacement work.

- 1) Put the mushroom lock and pull cord switch also to be acted on both side
- 2) Check & ensure trail run at that time DPC should not run
- 3) Use PPE's (hand gloves, goggles, dust mask)
- 4) Inform to Instrument engineer remove the proxy switch in tail end guard / sensor to be blocked for instant. (up to completion of work.
- 5) To remove the tail end guard
- 6) Working area to be cleaned before starting the job
- 7) Remove the pan holding bolts with proper care and attention.
- 8) Lift the pan with proper care and attention
- 9) Refix the new pan with DPC chain
- 10) After fixing the pan and tightened the all the bolts
- 11) Remove man & material, tools & tackles and keep away for run & check further.
- 12) Clear the pull cord on both side and clear the mushroom lock
- 13) For positioning the another pan with local operation in designated location
 - The same procedure has to be follow from 5 to 13
 - After completion of job Give the clearance to CCR operator run DPC auto mode.



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Emergency / Emergency Shut OFF:

If any injury takes place, provide First aid and inform to the Safety department or Call
Emergency number 3108/9865152222

Records/Annexure:

JSA is enclosed below.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Running Inspection of Replacement Bucket or roller / Bolts Tightening.	Date: 01 – 09 - 2013	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Section engineer	Supervisor: Section Engineer	Department: Mech	Section: Raw Mill, Cement Mill Coal mill	Approved by: HOD Mechanical

Sl. No	Sequence of Basic Job Steps.	Potential Hazards.	Recommended Safe Job Procedure.	What could go wrong?	Corrective action.
1	Bucket or roller bolts removing.	Fingers may entrap	Hold at the proper place	May fall down	Use lifting tackles
2	Bolts Loosening or tightening	Hand may entrap	Work with more comfort	Dust may fall on eyes.	Clean the spot before start & use Goggles
3	Rotation in between for positioning	Unexpected run	Do not compromise of LOTO/ Mushroom lock.	Any other person can start	Use Mushroom lock for the working spot LPB
4	Hand trap at Top rail during run inspection	Keep away from the rail with proper position & support while inspection.	Person may slip & hold the rail for support unexpectedly	Finger / hand may Entrap	Ensure not to remove the TOP rail Guard. (Now Guard was split in to two parts)
5	Equipment may run during working as LOTO not applicable as it should be run and Inspect	Ensure Pull cord while working	Other side person may start the equipment for further inspection.	Equipment may start	Use Mushroom Lock at Both sides of the Equipment at working spot