



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
INSTRUMENTATION DEPARTMENT**



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	INST/SOP/009
Issued By: M.R		Approved By: HOD (INSTRUMENTATION)	
SOP for checking Kiln and Cooler camera			

Scope : This SOP is applicable for Safe working in Kiln and cooler camera.

Responsibility : Instrument Technician.

Accountability : Instrument -Section Engineer.

PPE:

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

Tools:

1. Cleaning Brush

Hazards:

Risks associated

Back pressure at Kiln hood

Mitigating Measures

Ensure the Inspection doors are closed.

Inform CCR to maintain the hood draught at negative.

Training needs:

1. People have knowledge to work in Pneumatic cylinders.
2. Emergency procedure.

Procedure:

- 1 Use PPE's .
- 2 Ensure kiln out let inspection doors are closed or/not while attending the cleaning work of the camera.
- 3 Note down the temperature, it should be less than 80deg c when camera inside.



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- 4 Check and ensure the Panel incoming Compressed air pressure, it should be >5kg.
- 5 Check and ensure the cleaning air pressure, it should be > 4 Kg.
- 6 Check and ensure the camera cooling air pressure >2 to <4 Kg.
- 7 Check and ensure camera rail should be clean and free from dust.
- 8 Check and ensure the camera view area is free from collection of material.
- 9 Check and ensure the camera retraction by closing the compressed air valve and normalize.
- 10 Check and ensure the camera retraction by removing the temperature sensor cable and normalize.
- 11 Check and ensure the camera retraction by switch off the power supply and normalize.
- 12 If any Air hoses to be replaced, incoming air valve should be closed and camera should be outside.



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Records/Annexure:

1. JSA as enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Camera checking	Date: 20.09.2017	Analysis by: Section Head	Reviewed by: HOD
Title of employee doing job: INST - TECHNICIAN	Supervisor: Section Engineer	Department: Instrumentation	Section: Pyro	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, Nose Mask, Asbestos gloves & Goggles,				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Working near to camera	Back pressure	Ensure the inspection doors closed condition.	Burn Injury.	Inform CCR to maintain hood at negative side.
Cleaning the Retraction Rails.	Dust may come While cleaning the rail pneumatic cylinder may operate and may hit the body or fingers.	Use Nose mask and goggles. While cleaning, person should not stand straight to the camera, person should clean rail from side only. (Or) camera should take out and supply should switch off.	Cough, eye Irritation may occur. Minor injury to the person.	Use Proper PPE's. Use proper PPE and follow procedure.
Check for air pressure it should be >4kg.	While checking any aeration hose may get damage.	Use goggles and keep some distance while noting.	Body Injury due to compressor air	Use proper PPE
Check lens cooling air pressure >2 to <4 Kg.	While checking any aeration hose may get damage.	Use goggles and keep some distance while noting	Body Injury due to compressor air	Use proper PPE
Ensuring the camera view area clean	Back pressure Dust may come	Ensure the inspection doors closed condition. Use Nose mask and goggles.	Burn Injury. Cough, eye Irritation may occur	Inform CCR to maintain hood at negative side. Use Proper PPE's.
Replace the damaged hose.	Compressed air may hit on the body.	Close the valve and release the air pressure.	Body Injury due to compressor air	Check and ensure the Compressed air is zero in pressure gauge.



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