



**DALMIA CEMENT (B) LIMITED
DALMIAPURAM
INSTRUMENTATION DEPARTMENT**



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	INST/SOP/04
Issued By: S & P		Approved By: Elect. & Inst Head	
SOP for Calibration of Oxygen Analyzers			

Scope: Checking and Maintenance of kiln Inlet & PC Gas Analyzers.

Responsibility: Instrumentation technician.

Accountability: Instrumentation - Section Engineer.

PPE:

- Safety helmet
- Safety shoe
- Mask
- Goggles
- Hand gloves

Tools required:

- Multimeter
- Tester
- Screw Driver
- Ring spanner
- Cylinder Key

Hazard Analysis:

Risks associated

Electrocution

Mitigating Measures

Use Insulated hand glove and Tools



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Procedure

1. Remove process connection and apply zero gas and maintain required flow rate of gas. Note the reading.
2. Close the zero gas and apply the span gas at required flow rate of gas. Note the reading.
3. Close the span gas and apply zero gas. Adjust “Zero” pot to read 4 mA.
4. Close zero gas and apply span gas. Adjust “SPAN” pot to read span ,mA.
5. Repeat the steps 3 & 4 to conform the repeatability.
6. Note the reading in the log sheet.
7. Restore the process connection.

Emergency / Emergency Shut OFF:

1. If any unconsciousness is there, give First aid and inform to the Safety department or Call Emergency number 9865177444/9865165926/9865155288

2.

Records/Annexure:

1. Refer Line clearance certificates.
2. JSA as enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Calibration of Oxygen analyzer	Date: 01.03.2013	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, Mask, goggles & insulated Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action



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Apply the zero and Span gas.	While applying zero and span gas Cylinders to be moved near panel may fall on leg	Use safety shoes and stand clear and ensure cylinders placed on plain surface with proper support	Cylinder may fall on leg and injury may happen	Use Safety shoes and stand clear during work
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HEAD E & I

HEAD TECHNICAL