



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

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/INST/05
Issued By: MR		Approved By: HOD-INSTRUMENTATION	
SOP for Maintenance of Instrument Panels			

**Scope/Purpose** : This SOP is applicable to maintain the Instrument Panels and Equipments

**Responsibility** : Instrument Mechanic / Supervisor

**Accountability** : Section In-Charge

**PPE:**

1. Hand gloves
2. Safety Shoes

**Tools:**

1. Insulated Spanners / Tools
2. Multimeter / Ammeter / Calibrators

**Hazard Analysis:**

**Risks associated**

Electric shock

**Mitigating Measures**

Usage of Insulated tools and Safety shoes

**Training needs:**

1. First aid procedure
2. Calibration procedures

**Procedures**

Routine maintenance of Instrument Panels and Equipments, like external cleaning are to be carried out

Periodical calibration of Instrument Panels and Equipments are to be done

In case the Instrument Panels or Equipments are not working or faulty, proceed as mentioned below

- a) Get clearance for the work from CCR or Section Incharge, if the related process is running.



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- b) Trouble shoot / repair the fault using the user manual as a guide
- c) Replace the faulty Electronic Card / Component
- d) Calibrate the Instrument Panel or Equipment , if any calibration sensitive Electronic Card / Component is replaced.
- e) Inform CCR or Section Incharge about the completion of the work

## **RECORDS**

Register for Maintenance of Instrument Panels and Equipments

## **Emergency / Emergency Shut OFF:**

1. If electric shock is there, First aid will be given and inform to the Instrumentation department or Safety department or Call Emergency number 3108 / 3123 & 9 in case of PA system.

## **Records/Annexure:**

1. Refer Line clearance in Instrumentation department.
2. JSA is enclosed below.



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**JOB SAFETY ANALYSIS: (JSA)**

<b>Job Safety Analysis</b>	Job: Maint. of Instrmn Panels	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Instrument Mechanic	Supervisor: Section Engineer	Department: Instrumentation	Section: Instrument Lab	Approved by:
Req'd/recommended PPE: Insulated Tools, Safety shoes				
<b>Sequence of Basic Job Steps</b>	<b>Potential Hazards</b>	<b>Recommended Safe Job Procedure</b>	<b>What Could Go Wrong</b>	<b>Corrective Action</b>
1.Switch ON the connected circuit	Electric shock	Ensure proper wiring & connections	Wrong connections	Wiring as per the drawing & ensure trip protection
2.Touching the connected probes / instruments	Electric shock	Switch OFF the circuit before touching	Electrostatic discharge / Improper electrical insulation	Discharge time to be maintained for capacitors / Use of proper instruments