



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



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|-------------------------------------|-------------|---------------------------------|-------------|
| Issue No. 02 | Rev. No: 01 | Effective Date: 22.05.2015 | SOP/INST/02 |
| Issued By: S & P | | Approved By: Elect. & Inst Head | |
| SOP FOR Maint. Of Field INSTRUMENTS | | | |

Scope/Purpose : This SOP is applicable for Maint. Of Field Instruments

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. Emergency preparedness
2. First aid procedure
3. Calibration procedures

Procedures

Routine maintenance of Field Instruments like external cleaning are to be carried out as per the standard instructions.

Periodical calibration of Instruments are to be done as per procedures
In case the Instrument is not working or faulty proceed as mentioned below

- a) Get clearance for the work from CCR, if the process pertaining to that Instrument is running.
- b) For 4 wire Instruments switch off and remove power supply.
- c) Remove process connections and signal wires.
- d) Replace the faulty Instrument with spare Instrument and connect power supply
- e) Calibrate the Instrument as per the relevant Procedure



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- f) Connect process connection and signal wires.
- g) Inform CCR about the completion of the work.

RECORDS

Register for Maintenance of Field Instruments

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 567 / 523/ 98651 77444.

Records/Annexure:

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



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JOB SAFETY ANALYSIS: (JSA)

| Job Safety Analysis | Job: Maint. of Field instruments | 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 | | | | |
| Sequence of Basic Job Steps | Potential Hazards | Recommended Safe Job Procedure | What Could Go Wrong | Corrective Action |
| Switch ON the connected circuit | Electric shock | Ensure proper wiring & connections | Wrong connections | Wiring as per the drawing & ensure trip protection |
| 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 |

HEAD E & I

HEAD TECHNICAL