



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



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	SOP/INST/015
Issued By: M.R		Approved By: HOD - INSTRUMENTATION	
SOP for Checking of Signals			

**Scope:** To check the signals.

**Responsibility:** Instrumentation technician.

**Accountability:** Instrumentation - Section Engineer.

**PPE:**

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

**Tools required:**

- Multimeter
- Tester
- Screw Driver

**Hazard Analysis:**

Risks associated

Electrocution

Mitigating Measures

Use Insulated hand glove



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**Procedure:**

- 1 Use PPE's hand gloves, nose mask, and goggles.
- 2 Use Multimeter with insulated probes and insulated line tester.
- 3 Ensure the signal interlocks and block the interlock if necessary.
- 4 Switch off the power supply.
- 5 Ensure the cable connections.
- 6 Ensure the field sensors condition.
- 7 Ensure the fuses for healthy condition.
- 8 After confirming the healthy conditions of Point No 5,6 & 7 Switch on the supply.
- 9 Confirm the signal in CCR.
- 10 Retrieve the blocked condition.
- 11 Give the clearance to operation.

**Emergency / Emergency Shut OFF:**

1. If any unconsciousness is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

**Records/Annexure:**

1. JSA as enclosed below.



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**JOB SAFETY ANALYSIS:(JSA)**

<b>Job Safety Analysis</b>	Job: CHECKING OF SIGNALS	Date: 20.09.2017	Analysis by:	Reviewed by:
Title of employee doing job: INST - TECHNICIAN	Supervisor: SECTION ENGINEER	Department: INSTRUMENTATION	Section: CRUSHER,RAWMILL,PYRO,CEMENT MILL &PACKING PLANT	Approved by:
Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES, GOGGLES, DUST MASK, HAND GLOVES				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
1 OPEN THE JUNCTION BOX & BLOWER THE TERMINAL BLOCKS	DUST MAY COME OUT OF THE JUNCTION BOX	WEAR GOGGLES,HAND GLOVES & NOSE MASK BEFORE BLOWING	COUGHING, EYE IRRITATION MAY OCCUR	USE GOGGLES, DUST MASK AND HAND GLOVES
2.CHECK THE SIGNALS BY USING MULTIMETER WITH INSULATED PROBES	LIVE SUPPLY IS EXPOSED AT THE MEASURING POINT NEAR THE PROBE	ENSURE THE PROBE IS PROPERLY INSULATED	RESULT IN ELECTROCUTED	USE INSULATED HAND GLOVES
3. TIGHTEN THE TERMINAL BLOCKS USING	LIVE SUPPLY IS EXPOSED AT THE	ENSURE THE METALLIC PART	RESULT IN ELECTROCUTED	USE INSULATED HAND



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SCREW DRIVER/TESTER	METTALIC PART OF THE SCREW DRIVER/ TESTER.	OF THE TESTER/SCREW DRIVER IS INSULATED PROPERLY.		GLOVES(OR) INSULATE THE SCREW DRIVER/ TESTER USING INSULATION TAPE
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