

DALMIA CEMENT (B) LIMITED - CEMENT PLANT ARIYALUR

INSTRUMENTATION DEPARTMENT

Issue No. 02 **Rev. No: 00 Effective Date: 01.11.2019** | **INST/SOP/024**

Issued By: M.R **Approved By: HOD - Instrumentation**

CHECKING OF DENSE PHASE SYSTEM AIR LIMIT SWITCH

Scope: SOP for Checking of Dense phase system air limit switch.

Responsibility: Instrumentation technician.

Accountability: Instrumentation - Section Engineer.

PPE:

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

Tools required:

- Insulated tools
- Multimeter
- Screw driver

Hazard Analysis:

Mitigating Measures Risks associated

Use of insulated hand gloves. Electrocution



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1.0 Procedure for Checking of Dense Phase system Air limit switch

- 1) Use proper PPEs.
- 2) Check the leakage in the seal air line pressure line tube.
- 3) If so close the incoming airline & change the tube.
- 4) Change the system in local mode by using Local/Auto switch.
- 5) Open the pressure switch cover & blower the inside terminals.
- 5) Check the air limit pressure switch contacts using multimeter with insulated probes.
- 6) In case any problem with pressure switch, close the incoming air line to the solenoid valve through manual valve.
- 7) Change the pressure switch
- 6) Operate the solenoid valve manually through the Solenoid valve knob.
- 7) Confirm the signal in CCR.
- 8) Change the solenoid valve in to Auto position.
- 9) Repeat Step No.7
- 10) Change system in Auto mode by using Local/Auto switch.
- 11) Give clearance to the CCR operator.

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.



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Records/Annexure:

1. JSA as enclosed below.

Job Safety Analysis	Job: Checking of Dense phase system Air Limit switch	Date:20.09.20 17	Analysis by:	Reviewed by:
Title of employee doing job: Inst-Technician	Supervisor: Section Engineer	Department: Instrumentati on	Section: RM/CM	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
1.0PEN THE PRESSURE SWITCH COVER & BLOWER THE TERMINAL BLOCKS 2. INCASE ANY PROBLEM WITH THE PRESSURE SWITCH, MANUALLY CLOSE THE	DUST MAY COME OUT OF THE JUNCTION BOX & LIMIT SWITCHES SUDDEN PRESSURE MAY COME OUT OF THE TUBINGS.	WEAR GOOGLES,HAND GLOVES & NOSE MASK BEFORE BLOWERING ENSURE THE PRESSURE IS ZERO FROM THE INCOMING PRESSURE GUAGE	COUGHING,EY E IRRITATION MAY OCCUR INJNURY MAY OCCUR	USE GOOGLES, DUST MASK AND HAND GLOVES OPERATE THE SOLENOID VALVE MANUALLY TO RELEASE THE PRESSURE.



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INCOMING AIR LINE & CHANGE THE PRESS. SWITCH 3.CHECK THE PRESSURE SWITCHES BY USING MULTIMETER WITH INSULATED PROBES	LIVE SUPPLY IS EXPOSED AT THE MEASURING POINT THROUGH THE PROBE.	ENSURE THE PROBE IS PROPERPLY INSULATED	RESULT IN FATAL	USE INSULATED HAND GLOVES
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