



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



Issue No. 01	Rev. No: 00	Effective Date : 25.05.2016	SOP/INST/15
Issued By: S & P		Approved By: HOD - INSTRUMENTATION	
SOP for Calibration of Rotopacker Spout			

Scope: To Calibrate Roto packer spouts

Responsibility: Instrumentation – Section Engineer.

Accountability: Instrumentation - Section Manager.

PPE:

- Safety helmet
- Safety shoe
- Goggles
- Nose mask
- Hand gloves

Tools required:

- Multimeter
- Screw Driver

Hazard Analysis:

Risks associated	Mitigating Measures
Handling Std Weights	Proper lifting method
Hand/Leg injury	Use Hand gloves and shoes

Procedure

1. Clean and check the weighing zone (bag stool) of the spout.
2. Select the toggle switch in the CPU card to calibration mode.
3. Do the Zero calibration and set the tare weight.
4. Check the repeatability of the bag stool and if the repeatability is ok, proceed to step no 6.



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5. If repeatability is not ok then inform mechanical to check the weighing zone.
6. For span calibration, place the test weight on the bag stool and Check the weight in the display.
7. If the weight is matching then check for repeatability and proceed to step 11.
8. If the weight is not matching, then adjust the span potentiometer in the CPU card to match the display with test weight.
9. Then check for repeatability, if repeatability is not ok then inform mechanical to check the weighing zone.
10. After correction of weighing zone, repeat the step no 6 to 8.
11. Select the toggle switch in the CPU card to normal mode from the calibration mode.

Note:

Maintenance has to be carried out on weekly basis.

Emergency / Emergency Shut OFF:

1. If any unconsciousness is there, give First aid and inform to the Safety department or Call Emergency number 222/233/9865155288

Records/Annexure:

1. JSA as enclosed below.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Calibration of Roto packer spouts	Date: =25.05.2016	Analysis by: section Incharge	Reviewed by: section head
Title of employee doing job: INST – SECTION ENGINEER	Supervisor: SECTION MANAGER	Department: INSTRUMENTATION	Section: PACKING PLANT	Approved by: HOD INSTRUMENTATION
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. CLEAN THE WEIGHING ZONE WITH BLOWER	DUST MAY COME OUT FROM THE SPOUT ELECTROCUTION	WEAR GOOGLES, & NOSE MASK BEFORE BLOWERING ENSURE THE FITNESS CERTIFICATION FOR PORTABLE INSTRUMENTS	COUGHING,EYE IRRITATION MAY OCCUR RESULTING ELECTROCUTION	USE GOOGLES AND DUST MASK CHECK THE INSTRUMENTS HEALTHINESS AND FITNESS CERTIFICATE VALIDITY
2. PLACING THE TEST WEIGHT OVER THE BAG STOOL	FOLLOW PROPER LIFTING METHOD.	KEEP YOUR LEG AWAY FROM THE TEST WEIGHT WHILE SHIFTING	LEG INJURY	USE HAND GLOVES AND SAFETY SHOES BEFORE LIFTING THE WEIGHT