



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



Issue No. 01	Rev. No: 00	Effective Date : 25.05.2016	SOP/INST/18
Issued By: S & P		Approved By: HOD - INSTRUMENTATION	
SOP for Calibration of Avery Weigh Bridge			

Scope: To calibrate the Avery make weigh bridges

Responsibility: Instrumentation – Section Engineer.

Accountability: Instrumentation - Section Manager.

PPE:

- Safety helmet
- Safety shoe
- Goggles
- Hand gloves

Tools required:

- Multimeter
- Hydraulic Jack
- Screw Driver
- Standard Weight

Hazard Analysis:

Risks associated

Handling Std Weights

Hand/Leg injury

Mitigating Measures

Use fork lift or proper lifting device

Use Hand gloves and shoes




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Procedure

1. Clean the platform and inspect the gap between ramp and weigh bridge platform.
2. Also inspect the gap between stopper bolts and weigh bridge platform.
3. Check load cell for proper contact with platform.
4. Check for zero on the digital display unit, else do zero calibration by pressing -0- button, then the display will show zero.
5. Check the corner points by placing test weight at each load cell point. If the indicated value at all the load cell points are same then proceed to step 7.
6. If any of the indicated value differs, then adjust the corresponding load cell potentiometer in the load cell card, until the value matches with the test weight. Now all the corner points are ok.
7. Now place 1000 Kg STD weight on the platform.
8. Check reading on the digital display unit and note down the reading in the log sheet.
9. If weight difference is more than +/- 10 Kg then do the span calibration.
10. Press  button and enter the password.
11. Go to setup platform and select Rerange and enter the standard weight value and press enter.
12. Now the display will show the standard weight value.
13. Repeat the steps 7 to 13 to check the repeatability of the weigh bridge.



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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.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Checking of Bin weighing system	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: RAWMILL, COAL MILL, CEMENT MILL	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 LOAD CELL & JUNCTION BOX WITH HAND BLOWER.	MAY COME OUT OF THE JUNCTION BOX DUST ELECTROCUTION	WEAR GOOGLES,HAND GLOVES & NOSE MASK BEFORE BLOWERING ENSURE THE FITNESS CERTIFICATION FOR PORTABLE INSTRUMENTS	COUGHING,EYE IRRITATION MAY OCCUR RESULTING ELECTROCUTION	USE GOOGLES, DUST MASK AND HAND GLOVES CHECK THE INSTRUMENTS HEALTHINESS AND FITNESS CERTIFICATE VALIDITY
2. PLACING THE TEST WEIGHT OVER THE WEIGH BRIDGE PLATFORM	CHECK THE FORK LIFT OR OTHER LIFTING EQUIPMENT.	KEEP SUFFICIENT DISTANCE FROM THE TEST WEIGHT WHILE SHIFTING	LEG INJURY	USE HAND GLOVES AND SAFETY SHOES BEFORE LIFTING THE WEIGHT