



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



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	SOP/INST/35
Issued By: M.R		Approved By: HOD - INSTRUMENTATION	
SOP for Checking and Maintenance of Weigh bridges			

Scope: Checking and Maintenance of Weigh Bridge

Responsibility: Instrumentation technician.

Accountability: Instrumentation - Section Engineer.

PPE:

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

Tools required:

- Multimeter
- Insulated Screw Driver
- Hand Blower
- Ring spanner

Hazard Analysis:

Risks associated

Electrocution

Hand injury

Mitigating Measures

Use Insulated hand glove and Tools

Use proper tools & tackles, Hand gloves



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Procedure:

1. Use PPE's like nose mask, goggles.
2. Before starting the job, take the work permit.
3. Before starting the Maintenance inform to the weigh bridge Operator and ensure the truck movement stopped.
4. Keep the Man working Sign Board towards the vehicle Entry.
5. Remove the inspection plates for checking the Load cells.
6. Clean the load cells and mounting pads with help of blower.
7. Check the load cell cable condition and if there is any twist in the cable release the same by removing the load cell.
8. Before removing the load cell Use proper capacity Jack and wooden slipper plates for lifting/locking the weighbridge platform.
9. Check the Grease retainer cup condition and fill the grease while removing the cups.
10. Check the load cell mounting buttons condition and replace if there is any wear and tear.
11. After lowering the platform, check the platform movement and it should oscillate with touching the stationary parts.
12. Clean the load cell JB and Controller with blower.
13. Check the Load cell earthing cable tightness and measure the Resistance values between platform and earth pit. It should be near to zero.
14. Check the tightness of the connections with proper insulated tools.
15. Return the work permit after job completion.
16. Give the clearance for the weighbridge operation.



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Emergency / Emergency Shut OFF:

1. If any requirement of First aid during the work, inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

Records/Annexure:

1. JSA as enclosed below.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Checking and Maintenance of Instrumentation panels	Date:20-09-2017	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: INST - TECHNICIAN	Supervisor: SECTION ENGINEER	Department: INSTRUMENTATION	Section: Crusher And Packing Plant	Approved by: HOD
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
Place the Men Working Board.	Fall on Leg	Wear Safety Shoes	Leg Injury	Ensure the PPE Conditions before Wear
Removing of Inspection Plate	Fall on Leg and Finger injury	Lift the Plate Safely with Hand gloves and Safety Shoe	Finger and Leg injury	Ensure the PPE Conditions before Wear
	Tools Slip	Use proper Tools with Exact Size	Tools may damage	Inspect the Tools before use
Blower the Load cell and Load cell mounting Pads	Dust may come from the load cell Area	Wear Goggles and Hand glove	Cough, Eye irrigation may occur.	Use Goggle dust mask and Hand gloves
Lift the Platform for removing the Load cell	Platform may fall down	Use Proper Capacity of Jack and wooden Planks	Hydraulic Jack may Fail due to oil seal leak	Ensure the Healthiness of the Jack by periodical inspection and Check the Fitness Certificate before start the job.



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