



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

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	WI-13 (SP-8; AM-7)
Issued By: M.R		Approved By: HOD-INSTRUMENTATION	
CALIBRATION PROCEDURE FOR DP & FLOW PRESSURE TRANSMITTER			

The Instrument engineer takes action' as follows, for calibration:

- 1.1 Connect the transmitter to DTM through ABB DCS.
- 1.2 Keep open both high side and low side tappings incase of pressure or draught transmitter to the atmosphere and check for zero. If not, adjust it by 'zero alignment' in DTM menu.
- 1.3 Connect the Pressure calibrator/vacuum pump to the either side of the tapping's (high/low tapping) of the transmitter.
- 1.4 Apply the pressure corresponding to the maximum range of transmitter. Read the reference Value in process value field, If it doesn't match, adjust it by high balance point in DTM \ menu.
- 1.5 Record the observations in the instrument calibration format F-1/W-13(SP-8; AM-7)

**2.0 CONNECTED DOCUMENTS:**

F-1/W-13(SP-8; AM-7)                      Calibration of DP & Pressure transmitter.

**RAW MILL DP TRANSMITTER**

**RANGE 0- 60mbar**

Applied Pr in mbar.

Display value in mbar

0.0

0.0

30.0

30.0

60.0

60.0

**RAW MILL OUTLET PR. TRANSMITTER**

**RANGE 0- 100mbar**

Applied Pr in mbar.

Display value in mbar

0.0

0.0

50.0

50.0

100.0

100.0



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RAW MILL INLET PR. TRANSMITTER

RANGE 5- -20mbar

Applied Pr in mbar.

Display value in mbar

-20.0

-20.0

0.0

0.0

5.0

5.0

COAL MILL DP TRANSMITTER

RANGE 0- 60mbar

Applied Pr in mbar.

Display value in mbar

0.0

0.0

30.0

30.0

60.0

60.0

COAL MILL MAIN BH DP TRANSMITTER

RANGE 0- 400mmwg

Applied Pr in mmwg.

Display value in mmwg

0.0

0.0

200.0

200.0

400.0

400.0

COAL MILL OUTLET PR. TRANSMITTER

RANGE 0- 60mbar

Applied Pr in mbar.

Display value in mmwg

0.0

0.0

30.0

30.0

60.0

60.0

PREHEATER FAN INLET PR. TRANSMITTER

RANGE 0- 800mmwg

Applied Pr in mmwg.

Display value in mmwg

0.0

0.0

400.0

400.0

800.0

800.0

PREHEATER FAN OUTLET PR. TRANSMITTER

RANGE -50 - +50mmwg

Applied Pr in mmwg.

Display value in mmwg

-50.0

-50.0



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0.0  
50.0

0.0  
50.0

PH 1st CYCLONE CONE DRAFT TRANSMITTER      RANGE 0- 600mmwg

Applied Pr in mmwg.

0.0  
300.0  
600.0

Display value in mmwg

0.0  
300.0  
600.0

PH 2nd CYCLONE CONE DRAFT TRANSMITTER      RANGE 0- 600mmwg

Applied Pr in mmwg.

0.0  
300.0  
600.0

Display value in mmwg

0.0  
300.0  
600.0

PH 3rd CYCLONE CONE DRAFT TRANSMITTER      RANGE 0- 600mmwg

Applied Pr in mmwg.

0.0  
300.0  
600.0

Display value in mmwg

0.0  
300.0  
600.0

PH 4th CYCLONE CONE DRAFT TRANSMITTER      RANGE 0- 600mmwg

Applied Pr in mmwg.

0.0  
300.0  
600.0

Display value in mmwg

0.0  
300.0  
600.0

PH 5th CYCLONE CONE DRAFT TRANSMITTER      RANGE 0- 500mmwg

Applied Pr in mmwg.

0.0  
250.0  
500.0

Display value in mmwg

0.0  
250.0  
500.0



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**PH CALCINER OUTLET PR. TRANSMITTER**

**RANGE 0- 500mmwg**

Applied Pr in mmwg.

0.0

250.0

500.0

Display value in mmwg

0.0

250.0

500.0

**MAIN RABH DP TRANSMITTER**

**RANGE 0- 600mmwg**

Applied Pr in mmwg.

0.0

300.0

600.0

Display value in mmwg

0.0

300.0

600.0

**KILN HOOD DRAFT TRANSMITTER**

**RANGE -30- +30mmwg**

Applied Pr in mmwg.

-30.0

0.0

30.0

Display value in mmwg

-30.0

0.0

30.0

**COOLER ESP INLET PR. TRANSMITTER**

**RANGE 0- 500mmwg**

Applied Pr in mmwg.

0.0

250.0

500.0

Display value in mmwg

0.0

250.0

500.0

**CEMENT MILL DP TRANSMITTER**

**RANGE 0- 60mbar**

Applied Pr in mbar.

0.0

30.0

60.0

Display value in mbar

0.0

30.0

60.0



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CEMENT MILL OUTLET PR. TRANSMITTER

RANGE 5- -20mbar

Applied Pr in mbar.

Display value in mbar

5.0

5.0

0.0

0.0

- 20.0

-20.0

CEMENT MILL BH DP TRANSMITTER

RANGE 0- 400mmw

Applied Pr in mmwg.

Display value in mmwg

0.0

0.0

200.0

200.0

400.0

400.0