



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



Issue No. 01	Rev. No: 01	Effective Date: 01.01.2016	WI-2(SP-8; AM-7)
Issued By: M.R		Approved By: HOD-INSTRUMENTATION	
CALIBRATION PROCEDURE FOR CO ANALYSER			

1.0 CALIBRATION PROCEDURE FOR CO ANALYSER :

The Instrument engineer takes action as follows, for calibration:

1.1 Calibration of CO analyser consists of establishing zero calibration and span calibration using N₂ & CO standard gases respectively.

1.1.1 Ensure that power is ON at least for one hour before calibration. This helps the instrument to acquire the temperature stability and to avoid condensation.

1.2 ZERO CALIBRATION:

1.2.1 Select manual mode and zero calibration from analyzer panel.

1.2.2 Pass N₂ gas (zero gas) through the analyser at the rate of 50 to 60 lpm for three minutes.

1.2.3 Clear the value which is displaying and then enter 0.000 then press enter.

1.2.4 Check the o/p reading with the help of multimeter it should be 4 mA.

1.3 SPAN CALIBRATION:

1.3.1 Select manual mode and span calibration from analyzer panel.

1.3.2 Pass standard CO gas through the analyser at the rate of 50 to 60 lpm for three minutes.

1.3.3 Observe the displayed value and to be match with standard gas value by entering it.

1.3.4 The output mA reading on multimeter should be corresponding to the amount of CO gas present in the cylinder.

1.4 Repeat the procedure to get consistent readings and record the same in the instrument calibration format F-1/WI-2(SP-8;AM-7)



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2.0 CONNECTED DOCUMENT:

F-1/WI-2(SP-8;AM-7)

CALIBRATION OF CO ANALYSER
CALIBRATION OF KILN INLET CO ANALYSER
CALIBRATION OF PC OUTLET CO ANALYSER

CALIBRATION OF PH OUTLET CO ANALYSER
CALIBRATION OF COAL MILL BH CANALYSER

KILN INLET CO ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value

PC OUTLET CO ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value

PH OUTLET CO ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value

COAL MILL BH CO ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value



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PH STACK CO ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value