



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



Issue No. 01	Rev. No: 01	Effective Date: 01.01.2016	WI-5 (SP-8; AM-7)
Issued By: M.R		Approved By: HOD-INSTRUMENTATION	
CALIBRATION PROCEDURE FOR NOX ANALYSER			

CALIBRATION PROCEDURE FOR NOX ANALYSER:

The Instrument engineer takes action as follows, for calibration:

- 1.1 The calibration of NOX analyzer consists of zero and span calibration by using N2 and NOX standard gases respectively.
 - 1.1.1 Preparation.
 - 1.1.2 Ensure that NO2 / NO converter is on condition.
 - 1.1.3 Ensure that converter temperature is very near to 220°C.
 - 1.1.4 Ensure that power is ON at least one hour before calibration for temperature stability and to avoid condensation.
 - 1.2 ZERO CALIBRATION:
 - 1.2.1 Select manual and zero calibration from analyzer panel.
 - 1.2.2 Pass standard N2 gas through analyzer at the rate of 50 to 60 lph 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 multi meter it should be 4 mA.
 - 1.3 SPAN CALIBRATION:
 - 1.3.1 Pass standard NOX gas through analyzer at the rate of 50 to 60 lph for three minutes
 - 1.3.2 Ensure that NO2 / NO converter is on condition.
 - 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 should be corresponding to the amount of standard NOX 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-5(SP-8; AM-7)



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2.0 CONNECTED DOCUMENT:

F-1/WI-5(SP-8; AM-7)

CALIBRATION OF NOX ANALYSER

KILN INLET NOX ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value

PH STACK NOX ANALYSER

RATE 50 to 60 lph

Applied Gas.
As per standard gas

Calculated value
As per standard gas value