

VEDANTA LIMITED – VALUE ADDED	Document No:	VL/IMS/PID1/
BUSINESS		INST/WI/08
INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05/01/2022
Work Instructions for Calibration of	Revision No:	07
Portable & Online Co Monitor and high	Page No.:	1 of 1
alarm testing		

CALIBRATION OF PORTABLE & ONLINE CO MONITOR AND CO HIGH ALARM TESTING

Objective: To check the accuracy of CO Monitors

Scope: This procedure is applicable for all Portable & Online CO monitors

Reference

1. Standard CO gas cylinder.

2. Operation manual of Online CO Monitor & Portable CO monitor

3. RISK/INST/17

Performance Criteria: Accuracy of calibration of CO monitor (+/- 1ppm)

Aspect for the Activity: Waste generation, Gas leakage

Identification of Hazards:

Chemical: CO Gas poisoning

Physical: Pressure, Fire

Hazard due to Human Behaviour/Human error: Not adhering to WI/ PPE,

Alcoholism, Use on non-certified tools/equipment

Responsibility: Sr. Engineer Instrumentation/Associate / Inst Technician

Procedure:

All engineers and technicians shall follow this procedure whilst Calibrating CO monitor. Care should be taken to avoid excessive gas usage.

- 1) Make a calibration setup ready which include standard known value CO gas cylinder and regulator in clean air environment with proper vent line.
- 2) Switch on instrument and wait for three minutes then check the zero of CO Monitor. Calibrate the zero in case the deviation exceeds acceptance limits (+/-1ppm)
- 3) If zero is ok, apply standard CO Gas with flow of 40 LPM and compare reading with standard CO.
- 4) In case deviation exceeds acceptance limits (+/- 1ppm), calibrate the Span.
- 5) File the Calibration record.
- 6) After calibration, Install the Online Co Monitor and test the Co high Alarm in PLC as per the approved alarm Setpoint List.

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