

VEDANTA LIMITED – VALUE ADDED	Document No:	VL/IMS/PID1/
BUSINESS		INST/WI/07
INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05/01/2022
Work Instructions for Deading Monameter	Revision No:	05
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WORK INSTRUCTION FOR READING MANOMETER

Objective: To Read the manometer for transmitter calibration/checking of pressure/Pressure measurement.

Scope: This procedure is applicable for manometer reading during transmitter Calibration.

Reference: Operating manual of Manometer.

Standard used: Analog/Digital Manometer Model: HD700

Performance Criteria: Accuracy of measurement of Pressure TX as mentioned in

MMTE

Reference: RISK /INST/17

Aspect for the Activity: Waste generation

Identification of Hazards:

Physical: Pressure, Honeybee/snake bite, Noise

Mechanical: Trip & Fall

Chemical: CO Gas poisoning, Dust, Graphite **Ergonomics:** Insufficient work practices

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

Alcoholism, Use on non-certified tools/equipment.

Responsibility: Sr. Engineer Instrumentation/Associate / Inst Technician

Procedure:

All engineers/technicians should follow this procedure while isolating and removing instrument for calibration, re-installation and commissioning. Care must be taken while removing and refixing to avoid contact with hot areas, gas & steam leakages. While keeping the manometer care should be taken to keep it safely so as not to fall down.

U tube manometer:

- 1) Ensure that water is clean and does not stick to glass tube.
- 2) Connect flexible PU tube to one end of U tube taking care that there is no leak in the connection.
- 3) Adjust tripod so that manometer is in vertical plane and water is at '0' in both arms of 'U' tube.
- 4) Connect pressure point at other end of PU tube
- 5) Record difference in the level of water in the arms in millimeters.



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Well type manometer:

- 1) Ensure that water is clean and does not stick to glass tube.
- 2) Connect flexible PU tube to well type manometer taking care that there is no leak in the connection.
- 3) Adjust tripod so that manometer is in vertical plane and water is at '0'.
- 4) Connect pressure point at other end of PU tube.
- 5) Note down the reading, Record difference in the level of water (i.e. reading when pressure applied 0) in millimeters.

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