**[WORK INSTRUCTION FOR READING MANOMETER](D:\\d drive\\Paresh\\BF1 173 m3 After Relining\\WI & HIRA\\Temporary Internet Files\\Content.IE5\\M3  MASTER LIST WORK INST Inst..doc)**

**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.

**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.

**Amendement Record**

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| **Date** | **Manual Section Ref. & Para** | **Brief details of Revision** | **New Rev.** |
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| **Prepared By:**  Head Instrumentation PID1 | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Electrical & Instrumentation PID1 |
| **Signature:** | **Signature:** | **Signature:** |
| **Review Date:** 13.09.2023 | **Review Date:** 13.09.2023 | **Review Date:** 13.09.2023 |
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