

PRESSURE LABORATORY

Aims and tasks

Aims and Tasks of RBS Pressure Laboratory can be summarized as follows:

1. Custodian of the necessary primary standards for the realization of the international (SI) pressure unit (Pa).
2. Performing calibration of different types of pressure measuring devices to establish the pressure scale in line with the national demands and to transfer it to the sub-level laboratories and to reach a measurement unity within the country.
3. Giving training and advisory services depending on the demand coming from industry.
4. Developing and maintaining new technical methods dealing with the establishment of the pressure scale in line with the national demands to contribute to scientific and technological improvement of Rwanda.

SERVICES

Calibration Services;

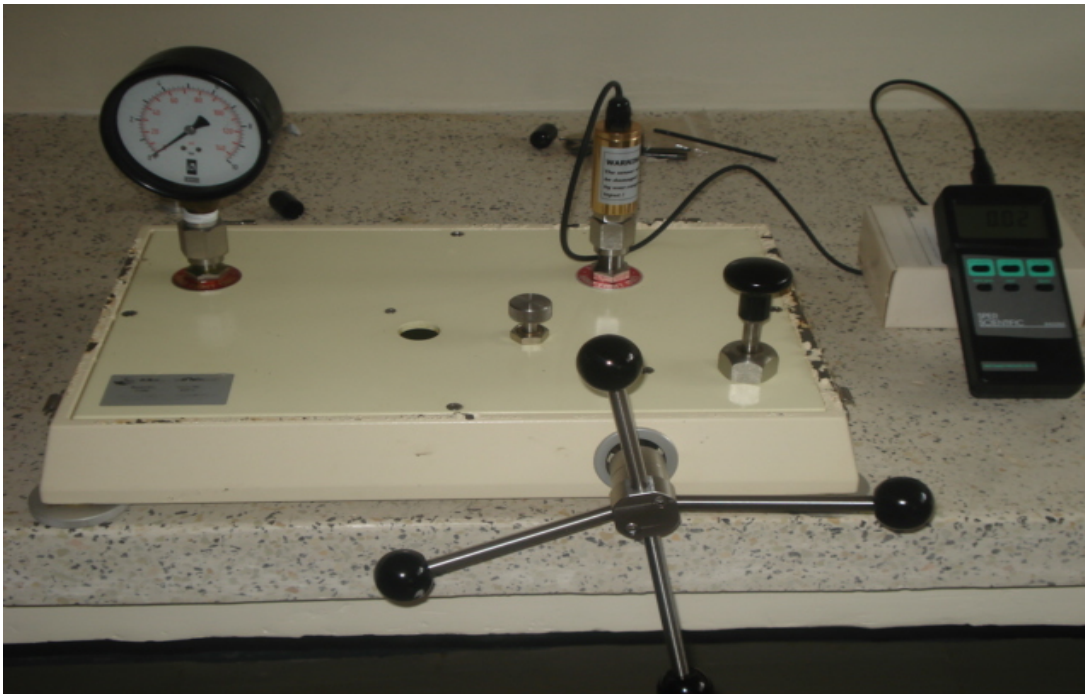
The laboratory has a hydraulic dead weight tester (pressure balance) operating between pressures 0 to 2600 bars and is the national standard.



RBS Hydraulic dead weight tester used for calibration of standard pressure gauges

The laboratory has also the pneumatic dead weight tester (pressure balance) operating between 0 to 120 bars. Both dead weight testers utilize the technique based on applied force to the unit area.

The laboratory has a set of secondary standards (pressure transducers) Used in calibration services as well as ensuring traceability.



RBS Hydraulic test pump used for calibration of industrial pressure gauges

The above instruments give the pressure laboratory the capability of calibrating different types of pressure gauges; analogue as well as digital pressure gauges and pressure transducers

Future developments

- Calibrations of vacuum gauges
- Calibrations of Pressure Balances
- Calibrations of tyre pressure gauges
- Calibration of blood pressure gauges

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