**PH CONTROL TRAINER**

**pH Control System is designed to teach basic principle of pH transmitter which includes the basic nature of the Acid and Base solution.**

**PROCESS DESCRIPTION:**

**Objective**:

The process setup consists of two tanks for Acidic & Basic solutions and one Product tank which is connected to the ph, Sensor & transmitter, the basic solution is controlled by the hand valve and the acidic solution is controlled thorough pneumatic vale through the PID controller. Computer P-IV & Compressor are optional

**Experiments**:

1. To study the response of the P, PI, PD, PID Controllers.

2. Study of Level, Flow & Temperature control in one time.

3. Study of Cascade, Feedback, feed forward, Ratio and On/Off Controllers in single system.

4. Response of Auto, Manual, Direct, Reverse mode of controllers, study of PID tuning parameters.

