

# BUBBLE CAP DISTILLATION COLUMN SETUP

## PROCESS DESCRIPTION:

### Objective:

The process setup consists of supply water tank fitted with pump for water circulation. Level transmitter is fitted on transparent process tank. Flow transmitter fitted across orifice meter senses the water flow to the tank. The water flow (secondary loop) to the process is controlled by pneumatic control valve to maintain. Computer P-IV & Compressor is optional.

### Experiments:

1. To study the of P, PI, PD, PID Controllers.
2. Response of Auto, Manual, Direct, Reverse mode of controllers, study of PID tuning parameters.
3. Study of performance of, pressure sensor, RTD, Dosing pumps, level sensor, I/P, Control valves etc...
4. Total seven control loops at one time.

