

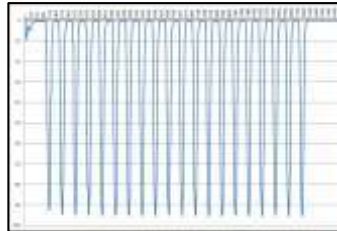
Fischer Tropsch Reactor System



Recent upgradation

- FTC 300 TCD system for conducting TPO, TPR and RTD
- Hot box with 6-way valve for isothermal sampling at high pressure and temp
- Online GC-FID-TCD for unattended sample acquisitions for 24X7
- 6-way valve for Pulse Chemisorption
- 100-pulse and 20 sessions can be programmed
- Catalyst characterization on bench scale (1-5g) with the new system

Pulse Chemisorption



TCD detector

6-way valve for gas pulsing



6-way valve and hot box design



Full SCADA control



Bench scale FT reactor

- Designed for both gas phase and supercritical phase rxn
- Safety Systems : Alarms for abnormal operation, automatic shutdown valves, CO detectors, pressure test performed prior to operation of unit
- Liquid pump can handle hexane, water and methanol
- Modular design to switch between PFR or Slurry reactor
- Unattended operation for 1000 h or more
- Passed 3rd party HAZOP study