

### Combined flow reactor – PFR and CSTR

Plug Flow Reactor : Material : Stainless steel, Capacity : 0.5 – 1.0 litre

CSTR : Material : Stainless steel, Capacity : 1.0 – 2.0 litre

Stirrer for CSTR: Stainless steel impeller and shaft, coupled with motor

Feed tank : Material : Stainless steel, Capacity 20 litres

Feed circulation by compressed air

Flow measurement : Rotameter, one for each reactor (additional provision for manual flow determination desirable)

Piping : Stainless steel for reactants / Stainless steel or PU for effluent

Pressure gauges

Platform and structure for supporting the entire system

*Rajesh B*  
H.O.D.,  
DEPT. OF CHEMICAL ENGG.  
GOVT. ENGINEERING COLLEGE  
WEST HILL, KOZHIKODE - 5

*Gigi Sebastian*  
Gigi Sebastian

**UV Photo Reactor**

Double walled immersion well : borosilicate with with inlet and outlet for water circulation.

UV source : 30 W / 125 W

Power supply : 125 W lamp

Reactor : volume 1 – 1.5 litres , borosilicate

Stirrer with motor : suitable one, stainless steel

condenser, sparger provisions

Safety hood : with highly reflective surface

Provision for magnetic stirrer

Control Panel

Platform for supporting the entire system

Rajesh B  
HOD, chemical.

Gigi Sebastian