**M.SC Semester III** 

Core Course XII Environmental Chemistry TOPIC:-Unit IV, APPLICATIONS OF GREEN CHEMISTRY APPLICATION 2

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## APPLICATION 2 ENVIRONMENTALLY FRIENDLY CATALYSIS



# APPLICATION 2 ENVIRONMENTALLY FRIENDLY CATALYSIS

• Also called "green catalysis"

 Has alot of advantages when compared to classical type of catalysis

• Recently found method (~15 years)

### **CLASSICAL CATALSIS METHOD**

- Named as "Homogeneous Catalysis"
- They are dumped to environment after use
- Causing huge pollution problems
- Financially ineffective

#### **NEW METHOD OF CATALYSIS**

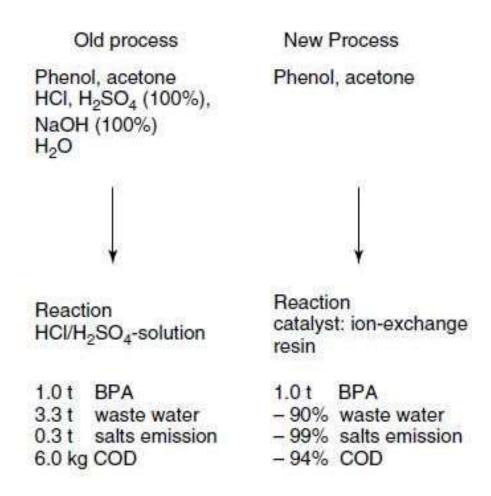
Named as "Heterogeneous Catalysis"

• Can be used over and over

Increases productivity

Saves alot of money

## EXAMPLE SYNTHESIS



## **CURRENT SITUATION**

Environmentally Friendly Catalysis:

- Subsequently reduced the catalystcosts
- Has earned the second biggest share in the market
- With high selectivity, operating costs went down