

# OBJECTIVE

To understand

- Process description
- Activated sludge process in food industry
- Important factors guiding activated sludge design
- Design of activated sludge
  - a. Activated Sludge Process Variables
  - b. Loading Rate
  - c. Aeration tank
  - d. Oxygen requirements
  - e. Aeration facilities
  - f. Secondary Settling
- Design of activated sludge
  - a. Sludge recycle
  - b. Excess Sludge Wasting
  - c. Nitrification
  - d. Denitrification
  - e. Cost of the instrument