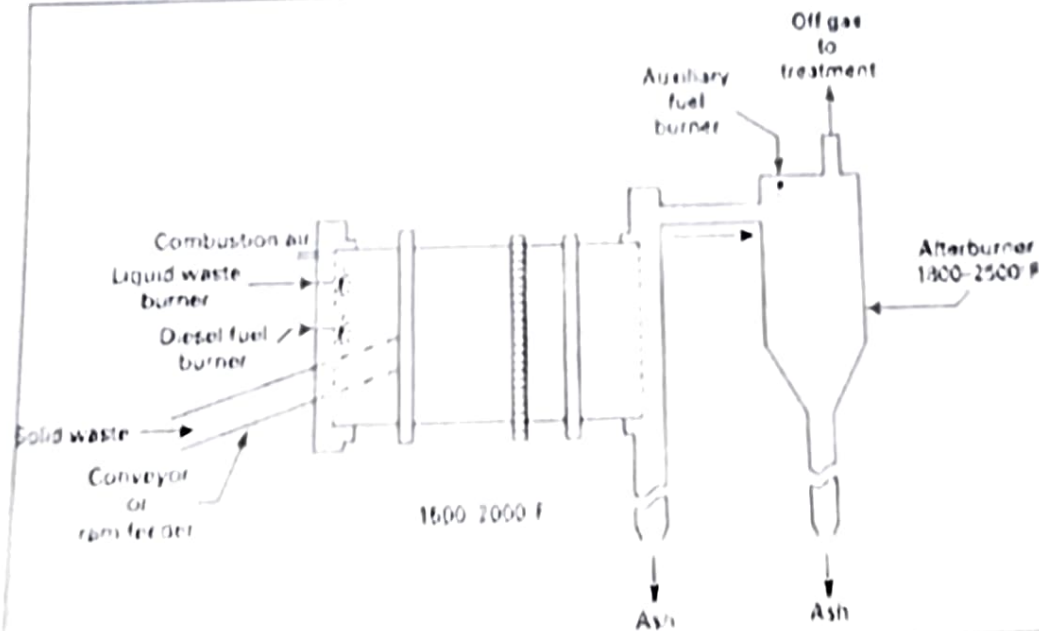
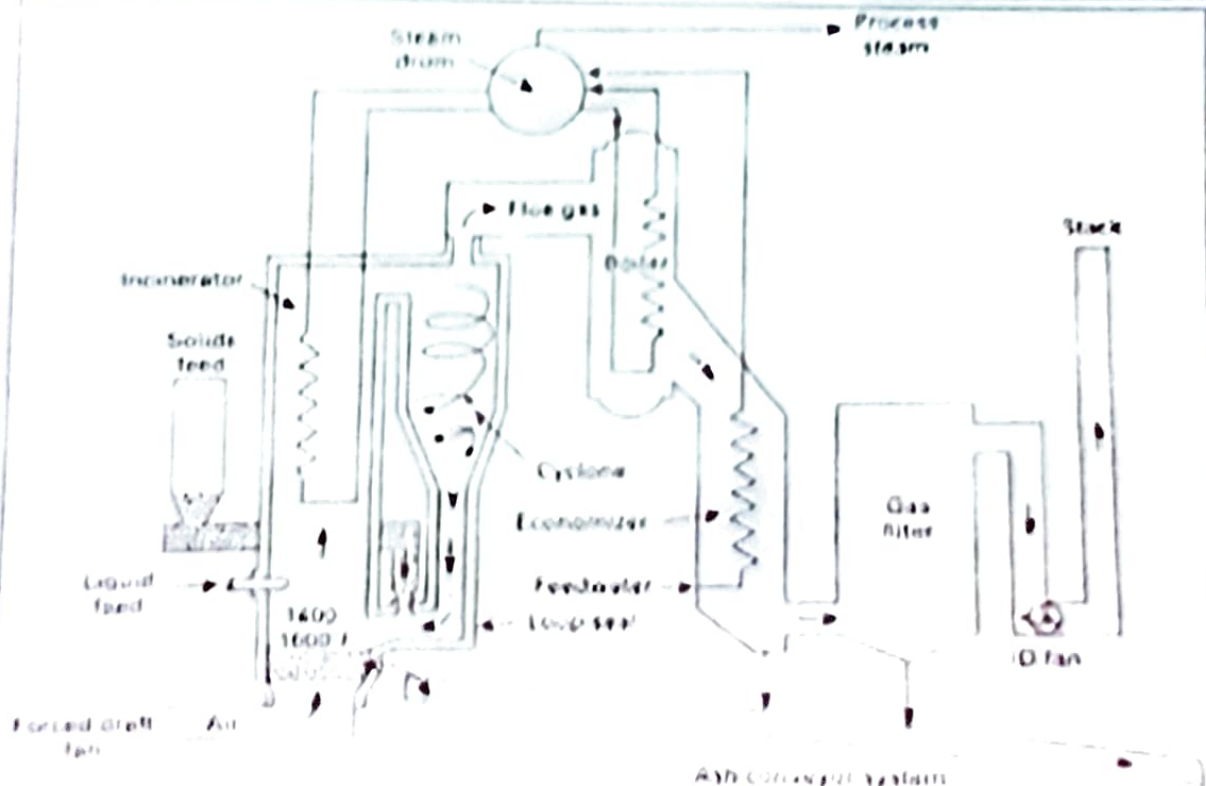


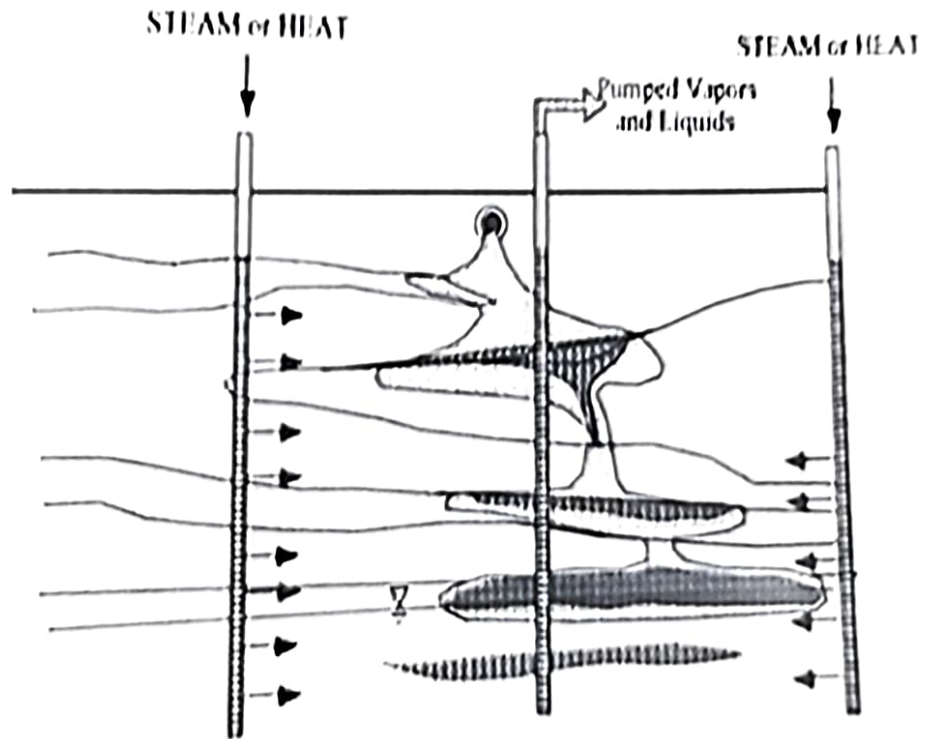
# HAZARDOUS WASTE TREATMENT INCINERATION



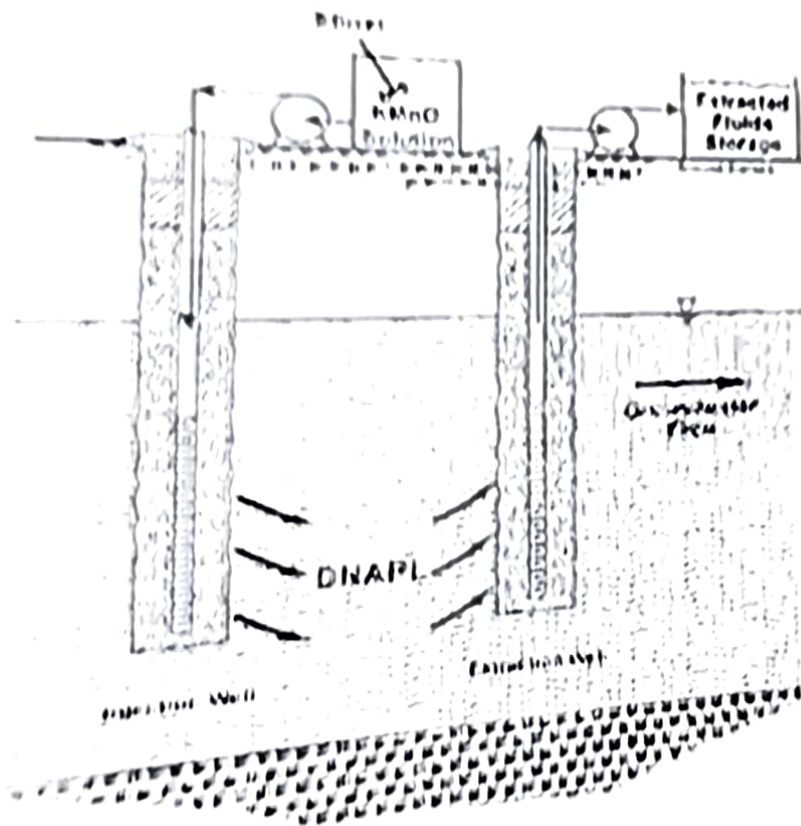
# HAZARDOUS WASTE TREATMENT INCINERATION



# Thermal In-Situ Schematic



# Recirculation Wells



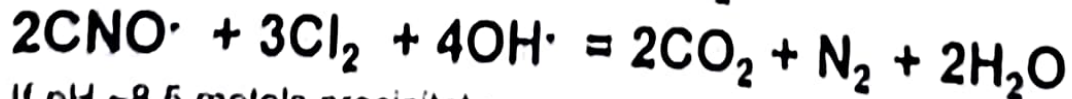
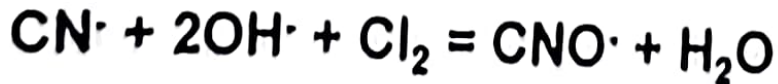
DNAPL: Dense non-Aqueous Phase Liquid

# HAZARDOUS WASTE TREATMENT

## CHEMICAL OXIDATION

Applicable for aqueous cyanide waste, sludge ( plating shops with toxic metals). The usual method to oxidize the cyanide waste in alkaline solution with chlorine or hypochlorite.

- Typically for cyanide containing wastes
- Use  $\text{NaOCl}$ ,  $\text{H}_2\text{O}_2$ ,  $\text{Ca(OCl)}_2$ ,  $\text{KMnO}_4$ ,  $\text{H}_2\text{O}_2$  combined with UV
- Process include alkaline chlorination, electrolytic oxidation, wet air oxidation



If pH ~8.5 metals precipitate