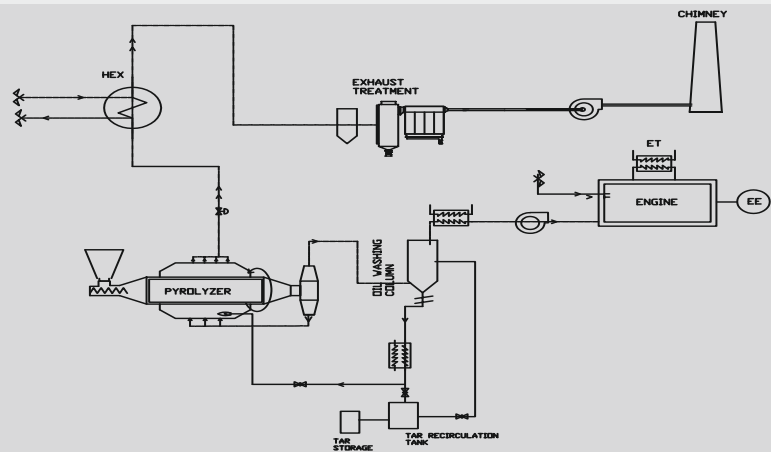




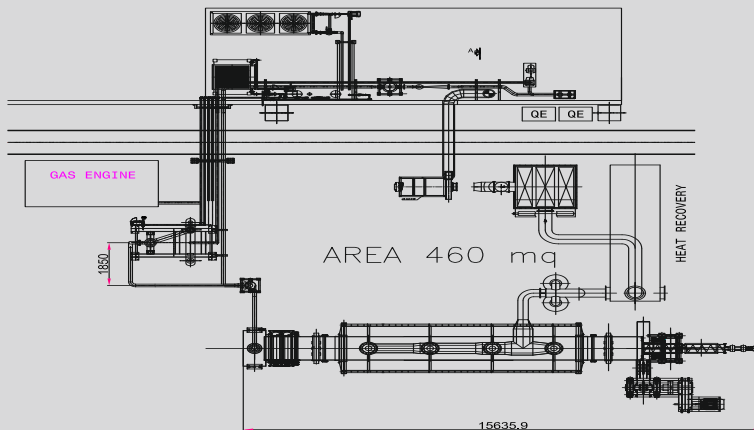
Biorefineries

SYNGAS & ENERGY FROM RESIDUAL BIOMASS

PROCESS FLOW DIAGRAM



200 KW PRODUCTIVITY PLANT: LAY OUT



TECHINAL DATA FOR 200 KWe PLANT

1. FEEDING MATERIALS : VIRGIN BIOMASSES
2. FEEDING CAPACITY : up to 200 kg/hr at 10% humidity
3. PYROLYSIS TEMPERATURE : 500 -600 °C
4. ELECTRIC PRODUCTION FROM BIOGAS : 200 Kwe (max)
5. AVAILABLE THERMAL ENERGY FOR OTHER USES : 200 Kw (hot fumes at 400°C)
6. LIQUID HYDROCARBON PRODUCTION : 10 kg/h
7. PLANT AREA REQUIRED : about 500 sq mt
8. WORKING HOURS IN A YEAR: 7500 h/y