

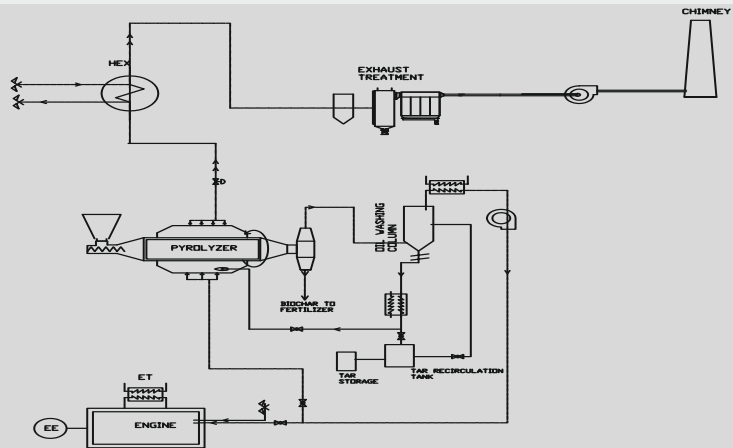


Biorefineries

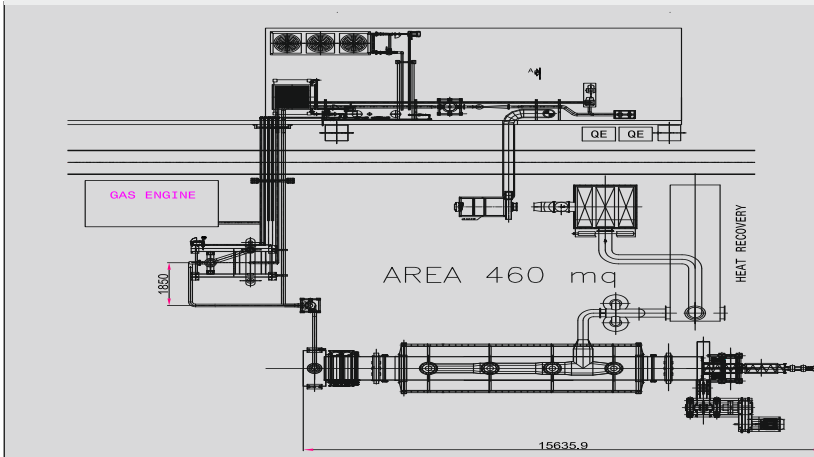


SYNGAS, ENERGY & FERTILIZER FROM CHICKEN LITTER

PROCESS FLOW DIAGRAM



200 KW PRODUCTIVITY PLANT: LAY OUT



TECHINAL DATA FOR 200 KWe PLANT

1. FEEDING MATERIALS : CHICKEN LITTER
2. FEEDING CAPACITY : up to 400 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 380°C)
6. LIQUID HYDROCARBON PRODUCTION : 20 kg/h
7. FERTILIZER/BIOCHAR PRODUCTION : 130 kg/h
8. PLANT AREA REQUIRED : about 400 sq mt (plus stockage area)
9. WORKING HOURS IN A YEAR: 7500 h/y