Biorefineries

SYNGAS, ENERGY & FERTILIZER FROM CHICKEN LITTER

PROCESS FLOW DIAGRAM

200 KW PRODUCTIVITY PLANT: LAY OUT

TECHNICAL 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