BIOGAS AND BIO-MANURE FROM POULTRY LITTER

Brief Description:

Untreated poultry litter is mainly utilized for growing crops which may result in air, land and water pollution apart from spreading pathogenic organisms like Salmonella and E.coli. The technology is meant for scientific treatment and disposal of poultry litter through the generation of renewable energy in the form of biogas and bio-manure. “Anaerobic Gas Lift Reactor (AGR).” is specially designed for treating poultry litter generated from Indian poultry farms having grit, sand and low C/N ratio. This technology is superior in terms of biogas and bio-manure production. The technology incorporates novel grit removal system and ammonia inhibition mechanism. Installation of biogas power plants based on “AGR” would ensure a cleaner environment and provide sustainable financial dividends to farm owners by offsetting their power requirements. Safe & timely waste disposal through the AGR, coupled with the biogas energy generation, will improve the profitability of the poultry industry.

Comparative advantage:

- Biogas and Bio-manure generation from Poultry Litter
- AGR Technology is economically viable solution with in the farm.
- Replacement of conventional electricity board power with renewable power generated from biogas
- Bio-manure is a salable by product.
- Hygiene in the poultry farm could be improved thereby sanitation could be avoided.
- Helath of the bird will improve and egg production could be increased.
- Mortality of the birds could be reduced

Scale of Development: Commercial plant working





