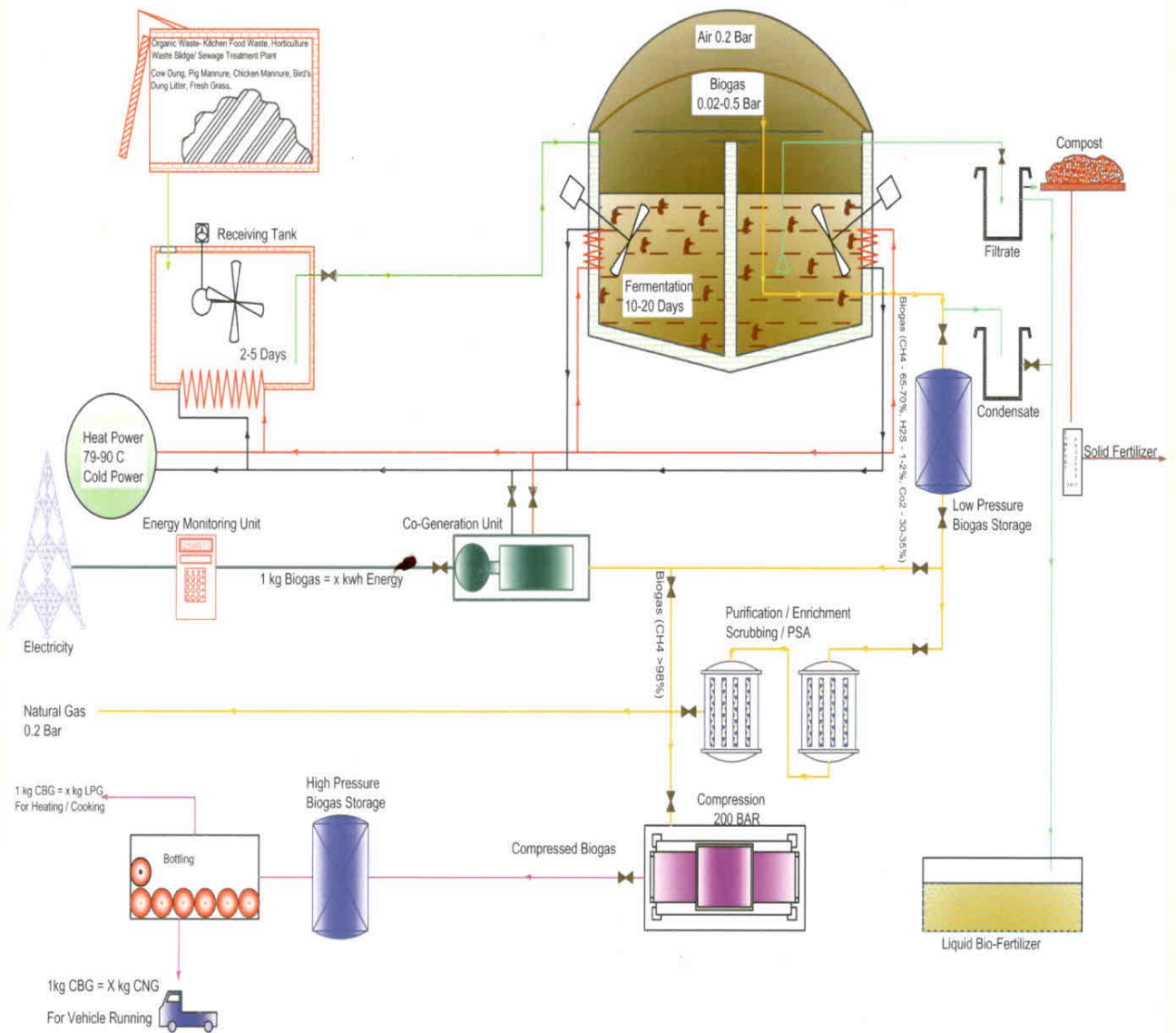


# BIOMETHANATION

## BIOGAS GENERATION-ENRICHMENT-COMPRESSION



- BIOGAS GENERATION:-** Pecma provides on Turnkey basis Biogas Plant to produce Biogas and Bio fertilizers from Biological Waste and Energy crops by process of Wet Fermentation / Anaerobic Digestion
- CAPACITIES:-** Pecma offers wide range of Biogas Generation plants for small scale ( 5 Kwe to 100KWE) to meet local needs of power and Thermal Energy - TO - multistage Reactors for centralize Energy needs of gas and Electric power of 2MW and more.
- Salient Features :-**
- Suitable for Multiwaste (Cow Dung, Pig, Bird Litter, Food Waste, Molass, Grass, Brewery spent, Grains etc.)
  - Generation of Thermal Energy >40MJ/KG • 1kg of CBG generates 3.5 to 4.5KWH
  - Minimum HRT • Low Maintanance & Operation cost.
- MAIN COMPONENTS**  
 ☆ Raw Biogas Generation ☆ Enrichment & Purification ☆ Compressed Biogas (CBG) ☆ Co-generation ☆ By products
- REACTOR:-** Reactor's are constructed out of high quality steel panels duly insulated ,100% chemically proof, corrosion and shock resistant, complete Reactors are installed /dismantled in shortest period of time
- MIXTURES:-** Mixtures Inclined & Submersible Mixure are geared electric motor driven in st steel -316Lconst.
- HEATING UNITS :-** Reactor Heating is done by using heating system to maintain saphlic temp condition of about 37°C. Networking of Heating System is carried out by Pipes placed inside the Digester walls, Heating is also carried out by exhaust of Boilers / Engines.
- ENRICHMENT :-** Raw Bio gas (CH<sub>4</sub>>62%-65%Co<sub>2</sub><22%H<sub>2</sub>S<3%) in wet packed tower Scrubber is scrubbed at low pressure and is Enriched to (CH<sub>4</sub>>96%Co<sub>2</sub><4% H<sub>2</sub>S<13mg/Nm<sup>3</sup> Moisture-16mg/Nm<sup>3</sup>) Enriched / Purified Biogas is further Compressed at 200bar for botting and is used for running vehicles as CBG-GREEN FUEL an alternative to CNG.

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