



# PEEPAL INDUSTRIES PVT LTD.

*Think Clean... Think Green... Think Peepal...*







**PEEPAL INDUSTRIES PVT LTD.**

Hyderabad based PEEPAL INDUSTRIES (P) LTD are pioneers and specialize in biogas plants for domestic as well as insitutional clients.

The company focuses mainly on bio waste management both at the domestic and institutional levels based on scientifically proven Anaerobic process.

PEEPAL team has got the competence and engineering expertise to draft, design, develop and execute medium to large and very large sized bio methanation plants which convert organic waste in to Methane gas which can be used for cooking replacing LPG and also liquid slurry as residual which is of very high nutrient value as organic fertilizer for kitchen gardens and horticulture farming.

PEEPAL can also arrange for storage of biogas to be converted in to power(electricity) for lighting and other purposes.

PEEPAL is collaborating with biotech companies to develop further bacterial strains for starting up the biogas plant quickly and efficiently and effectively replacing the traditional cowdung.

At PEEPAL we are committed to making recycling easier, effective, efficient and more productive saving the environment.

Disposing off waste in an environmentally friendly manner is crucial to our communities and we can help. Our experts will asses and develop the right recycling sytem and disposal solution for every kind of organic waste management.





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### *Need for* **BIODIGESTERS**

Biodigesters are designed to process any biodegradable waste into methane and organic fertilizer. A huge quantity of organic material is wasted everyday and is generally dumped into garbage. This garbage stinks and pollutes the atmosphere and the environment. This is not only harmful to health but also a legal violation of disposing food waste. Managements of factories and companies who have the awareness of keeping the premises clean and green have been adhering to the principle of following a scientific way of disposing their factory wastes. Food waste management has been the area of concern in most factories now. Scientifically designed and customized biodigesters are commissioned to address this food waste management. The process of converting this food waste into cooking gas and organic manure has not only eliminated the disposal problem but also has created a cost effective and revenue yielding mechanism to the organization.

### **Anaerobic digestion**

Anaerobic digestion is a collection of processes by which microorganisms break down biodegradable material in the absence of oxygen. The process is used for industrial or domestic purposes to manage waste and/or to produce fuels. Anaerobic digestion is the natural breakdown of organic materials into methane, carbon dioxide gas and organic fertilizer





## LEED - CERTIFICATION

Factories, companies and organizations who are adapting the scientific methods to dispose of the food waste through the management of biodigesters have been actively appreciated and certified by the Green Building Forums all over the world. LEED certification is given to the organization that adheres to the parameters fixed by the certifying body in implementing the food waste management using biodigesters in the most scientific way.

PEEPAL provides the assistance and guidance to your organization in obtaining this LEED certification. PEEPAL assist you in fulfilling the audit requirements and also provides a comprehensive training and implementation program at your organization to your selected staff, Periodic programs are conducted to highlight the implementation through its dedicated team for a nominal cost.

## CARBON CREDITS

A carbon credit represents a tonne of carbon dioxide or carbon dioxide equivalent gases removed or reduced from the atmosphere from an emission reduction project, which can be used, by governments, industry or private individuals to offset damaging carbon emissions that they are generating.

### Reducing Carbon Footprint via Biogas Plant

*From one tonne of biodegradable waste*

Gas	Per day	Per month	Per year
Methane produced & utilized	~30 kg	~900 kg	~10,800 kg
Carbon-di-oxide controlled			10,800 X 21=2,26,800 kg of CO <sub>2</sub>

*This is an imaginary table and varies as per client requirement*

The most common forms of greenhouse gases are water vapor, carbon dioxide, methane, nitrous oxide, and ozone and we measure these gases in terms of metric tons. Since each type of greenhouse gas (GHG) has a different level of contribution to the global warming effect, gases other than carbon dioxide are measured in terms of carbon dioxide equivalent tons, or tons CO<sub>2</sub>e. For example, methane, per ton, has a 21 times greater greenhouse gas effect than CO<sub>2</sub>, therefore 1 ton of methane is equal to 21 tons of CO<sub>2</sub>e while 1 ton of carbon dioxide is equal to 1 ton CO<sub>2</sub>e.

**Annually 226 carbon credits can be generated by using PEEPAL commercial biogas plant**



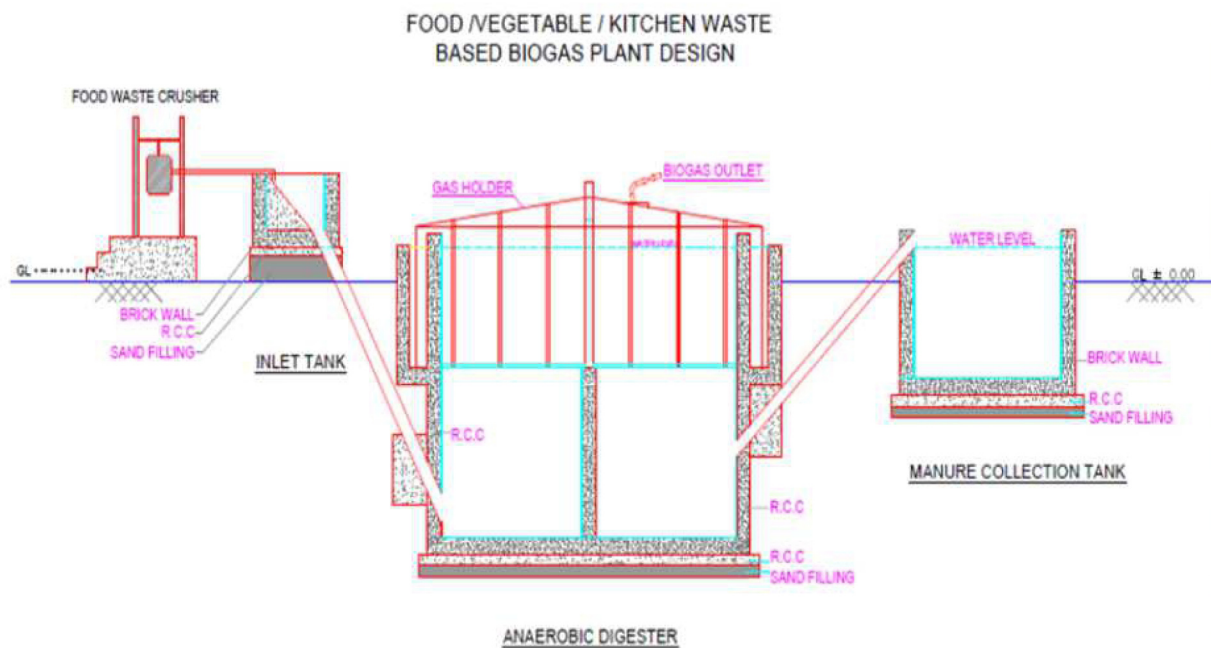




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*Schematic Representation of Commercial*

# BIOGAS PLANT



\* FLOATING DRUM TYPE WATER SEAL MODEL



# Use Kitchen Waste..

## Reduce Gas Bills



### Special Features:

Saves upto 70% LPG usage

No odour, Very safe, Easy to use

Can be installed on terrace or Balcony

Return on investment 1.5 - 2 years

Zero maintenance & One time investment for 20 years

Unit size (Ltr)	Waste Input (Kg)	Waste Water (Ltr)	Stove	Cooking Hours	Organic Fertilizer (Ltr)
500	1-2	5-10	Single Burner	1	~5
1000	2-5	10-15	Single Burner	2	~10
2000	5-10	20-25	Single Burner	3	~15

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