

# Shakti Surabhi Biogas Plant

Patent - PCT/IN2010/000449

## 5 in 1 solution



Guide Pipe

Inlet arrangement

Counter weight

Gas outlet

Gas Holder

Digester

Outlet pipe

Emergency  
Slurry Drain

Water Drain

1. Liquid organic Manure



2. Saving of money



3. Gas for Cooking



CBG



Electricity Generation



4. Pollution control



5. Reduction of Green House Gases



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## Quotation for Shakti Surabhi Bio-Methanation Plants

Sl. No	Amount of cooked waste per day (kgs.)	Capacity of the plant (Cum)	Description	Equivalent to LPG per day	Cost of the plant
1.	1-2	0.25	Portable Shakti Surabhi Bio-methanation plant with FRP digester, water jacket and gas holder with stainless steel single burner	100 gms	15000/-
2.	2-3	0.5	Portable Shakti Surabhi Bio - methanation plant with FRP digester, water jacket and gas holder with stainless steel single burner	200gms	18000/-
3.	5.0	1.0.	Portable Shakti Surabhi Bio - methanation plant with FRP digester, water jacket and gas holder with stainless steel single burner.	450 gms.	26000/-
4.	10.0	2.0	Portable Shakti Surabhi Bio - methanation plant with FRP digester, water jacket and gas holder with stainless steel double burner.	900 gms	47000/-
5.	15.0	3.0	Portable Shakti Surabhi Bio-methanation plant with FRP digester, water jacket and gas holder with stainless steel double burner.	1.3 Kgs.	69000/-
6.	20.0	4.0.	Portable Shakti Surabhi Bio -methanation plant with FRP digester, water jacket and gas holder with stainless steel double burner or one small canteen burner.	1.7 Kgs	82000/-
7.	30.0	6.0	Portable Shakti Surabhi Bio- methanation plant with FRP digester, water jacket and gas holder with stainless steel double burner or one small canteen burner.	2.5 Kgs	109000/-

### Benefits from 1 cum capacity plant per year.

1. Disposal of waste - 365 days X 5 kgs. - 1825 kgs.
2. Liquid Manure - 365 X 10 liters - 3650 liters
3. Gas - 365 X 1cum - 365 cum X 0.43 (1cum equivalent to 0.43kgs LPG)  
- 157kgs of LPG (11 nos of domestic LPG cylinder)
4. Safe disposal of Green House gas
5. Clean and Green Environment

## Waste ...

*Rice, Sambar, , Any Atta power, tea, coffee, Rice wash, Kanji, Bakery items, Fish, Mutton, Crushed vegetables, Crushed fruits, Non-Edible cakes etc.,*



### Specialties of our design:

- Specially designed for Food waste
- Faster gas production.
- Smooth movement of gas holder.
- Easy to Handle and Relocate.
- Provision of Water Jacket and so Hygienic.

### Other terms and conditions:

1. Packing and forwarding extra at actual
2. User will have to commission the plant as per the guidelines which will be supplied.
3. Delivery within three weeks after the receipt of full payment in advance.
4. Details of our bank account are as follows:-
  - a. Name of bank: State Bank of India
  - b. Account name: Vivekananda Kendra-NARDEP Trust
  - c. Account Number; 32656836156
  - d. Bank place: Vivekanandapuram.
  - e. IFSC code: SBIN0003780



### Note:

- This technology is based on Microbial reaction. So, Training is important for understanding the technology and running the plant efficiently.
- The above Mentioned waste is cooked waste. If you go for vegetable waste, crusher is required (For bigger size plants, even for cooked waste, crusher is advisable). The prices quoted above are without crusher.
- For more than 6 cum capacity, fixed model is good and economical.
- **Shakti Surabhi model is patented in India, China and South Africa.**
- For Electricity generation, minimum 10cum. Plant is advisable. Up to 10cum. Use the gas for thermal (Heating) and lighting.

### Contact:

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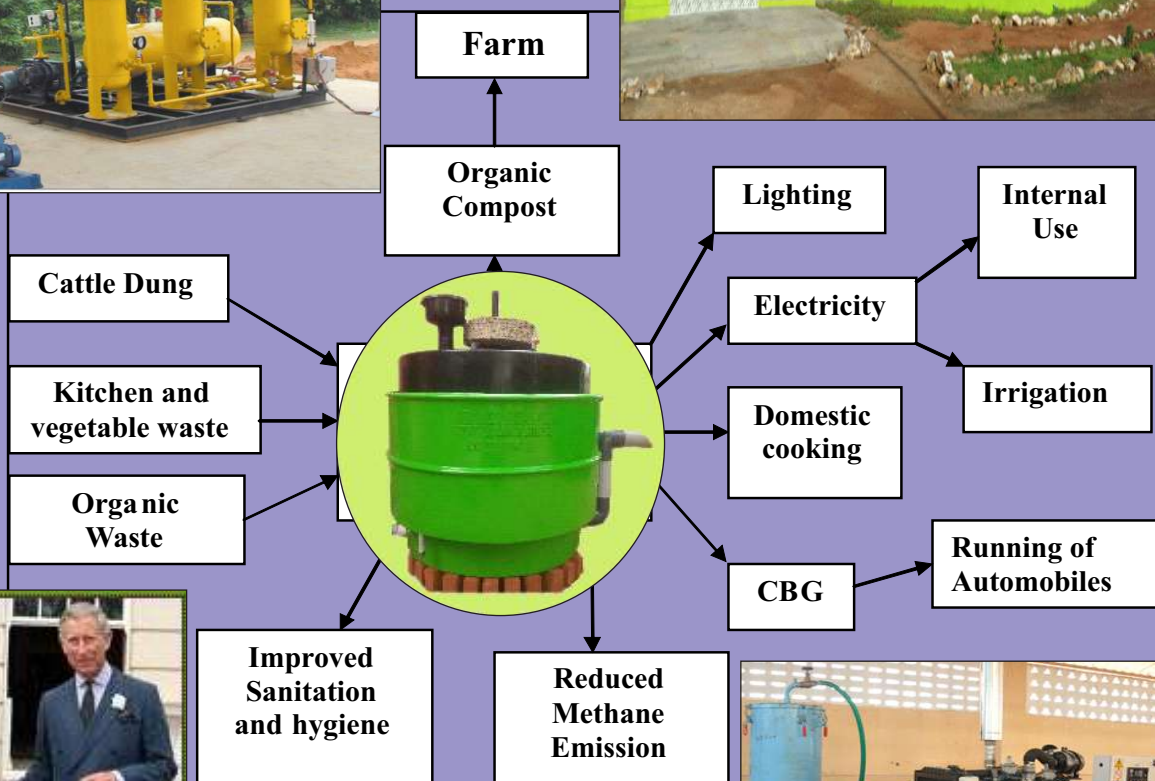
## Work in the field of Biogas

- Published a half a dozen of booklets
- Installed thousands of biogas plant in all over India
- Received International "Ashden Award" for Bio Energy
- Patented "Shakti Surabhi" model in India  
China, South Africa and Srilanka
- Biogas outlet Slurry based value added products
- Transferring of the technology in statewise
- Trained Thousands of Masons,Engineers,NGO's,etc.,



Bigger size plant

Compressed Bio Gas



Ashden Award



canteen Burner



Generator



Deenbandu Biogas plant