

Pilot level demonstration of Biogas enrichment and bottling technology developed by IIT Delhi at Shri Krishna Gaushala, Karera village, Ghaziabad

About the site:

GauShala, a Sanskrit word, means the adobe or sanctuary for the cows and its progeny as calves and oxen. Shri Krishna Gaushala is the sanctuary or the abode for old, sick, abandoned and stray animals, especially cows and its progeny runs on charity basis. It is located at Karera Village in Ghaziabad. Site is located near Delhi and it may take about one and half hour from the Taj Hotel depending upon traffic. There is a herd of around 1000 cows. There are two sheds for cows and one shed for calves, separate shed for bulls, shed for vermin-composting and compost pit, urine collection centre, three biogas plants (85+85+60 cum /day capacity), slurry collection tank, and a biogas purification and bottling unit. Gaushala is surrounded by lot of trees and greenry, which make the environment more pleasant, calm.

Site Visit: March 2, 2010 8.00 am to 1.00 pm

- 1) **5 ton Cow Dung** is used for the feeding of Biogas Plants (Capacity).
- 2) **Biogas** is purified and bottled with a **Biogas Purification** (water scrubbing system – capacity – 20 cum/hr) & **Bottling Unit** and used as fuel in vehicles – Technology developed by **IIT Delhi**, this is a pilot demonstration unit of **Ministry of New and Renewable Energy (Govt of India)**.
- 3) **Bio-Gas** produced is also used for Power Generation with the help of genset.
- 4) The Biogas plant **Spent Slurry (rich in nutrients than fresh cow dung)** is used as **Manure** for plantation in gaushala and all around it and this slurry is also vermin-composted and marketed.



Biogas plants at Gaushala



Vermicomposting shed



Biogas scrubbing unit and Compression unit at 200 bar



Enriched Bio-Gas cylinders dispensing gas in Vehicle

Contacts:

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