The Rise of Rural India

SMART VILLAGE

Believes
SMART VILLAGE

Su-Raj

Namami Gange Initiative

Developed By

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Self Sustainable Business model For "SMART VILLAGE" Development Program by converting all types of

Organic wastes to wealth

VISION

Every Ganga Village is a "SMART VILLAGE"





CLEAN GANGA THROUGH



- 1. Prevention of all types of waste falling into Ganga.
- 2. Conversion of all waste into wealth

3. Development of a self supportive long term sustainable business model.

TARGET ACHIEVEMENTS



Development of a **Smart Village**- A self sustainable village free from all dependence from outside help.

A smart village is one that is

- 1. Clean- Free from all types of organic garbage.
- 2. Green- Ensures soil conditioning
- 3. Rich- Creates local employment opportunities

Creation of a **SMART VILLAGE** Through a self sustainable Business Model



The Right BM will be one which will ensure.

- 1. 100 % self sustainable profit generating model right from Day 1 of operation
- 2. Payback period as low as 3 years
- 3. Very low initial investment
- 4. 100 % inline with the national current policies like Swachh Bharat Abhiyan, Make in India, Start up India Stand up India and skill india
- 5. Will ensure clean green and rich village
- 6. Will convert every village into a **SMART VILLAGE** and reverse the process of migration from **"Village to cities" to "Cities to villages"**.

Creation of a **SMART VILLAGE** Through a self sustainable Business Model



- 7. Will ensure 100 % "Clean Ganga".
- 8. Will offer cheap 24 hours electricity and cooking gas.
- 9. Will reduce the burden of subsidy on cooking gas.
- 10. Will promote organic farming and ensure natural fertilizer rich soil.
- 11. Will generate employment in every village

BACKGROUND



- India has the Largest cattle population in the world ~ 61.7 crores.
- Majority of this cattle population is based in Rural India, which generates a huge amount of green waste.
- Currently, the waste in the form of cow dung is not being used efficiently.
- However, the potential to generate Green energy from this waste is huge.





VISION



- The Rural Development Program—development of a business model is an initiative by CbS Technologies for the self sustainable development of Rural India and the empowerment of its village dwelling population.
- The first phase focuses on creating a sustainable source of clean energy using green waste, which is available in abundance in Rural India





GREEN WASTE (To Name a Few)





Food Waste



Human Waste



Cow dung



Poultry Waste



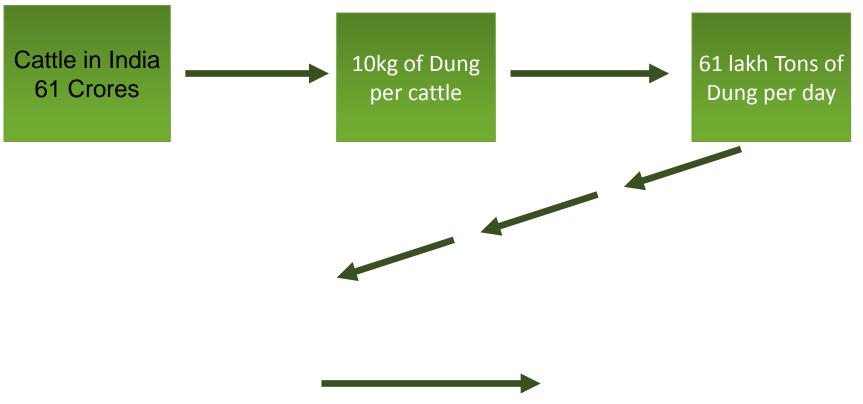
Land Fills



Press Mud

From Waste to Gas The National Potential - "An overview"





WHY PURIFY RAW BIOGAS?



- Reduces excessive corrosion (Due to removal of H₂S).
- Improves efficiency of the biofuel.
- Has many more applications. Ex-CNG cars, tractors, Electricity, cooking gas, crematoriums, pump sets,
- Less breakdown and lower maintenance cost.
- Value addition = better livelihood for villagers.





THE PROCESS (Waste to Wealth)

"Step 1 to Step 6"









Step 1





By Product



Step 2



Natural Fertilizer



Step 3





Raw Biogas Storage Balloon

PROCESS CONTINUED







Step 4





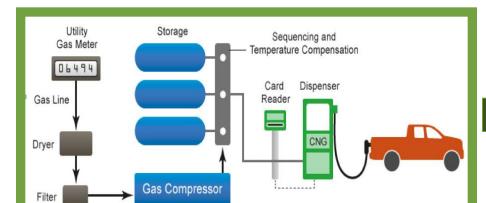


Step 5

Sooster Compressor

Step 6

Purified Gas Storage Balloon



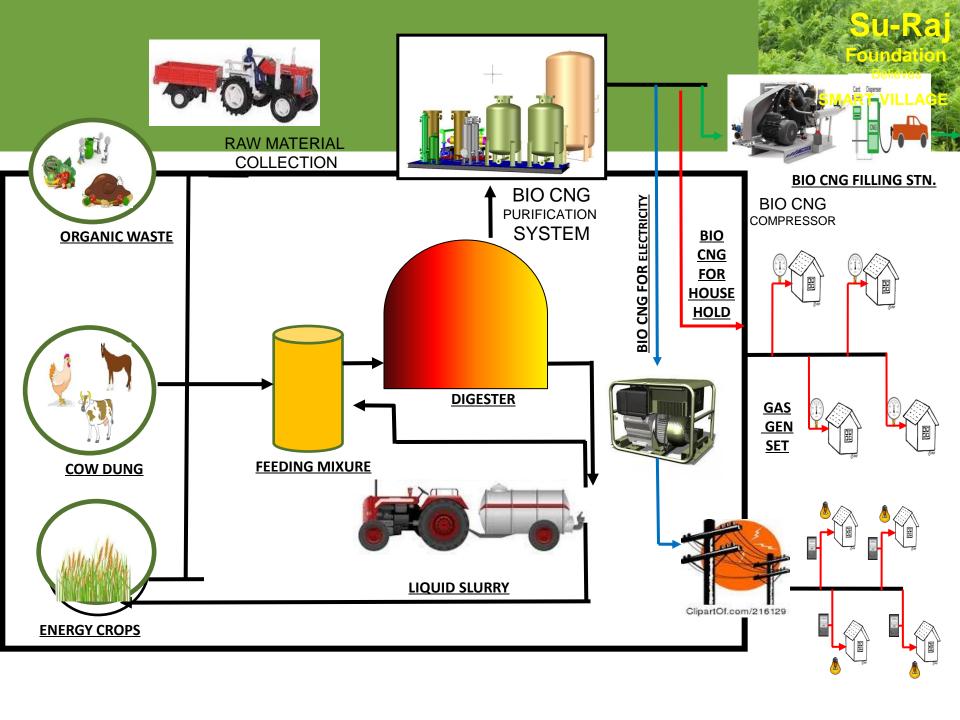




Step6



Cascade Filling



WHY BIO-CNG?

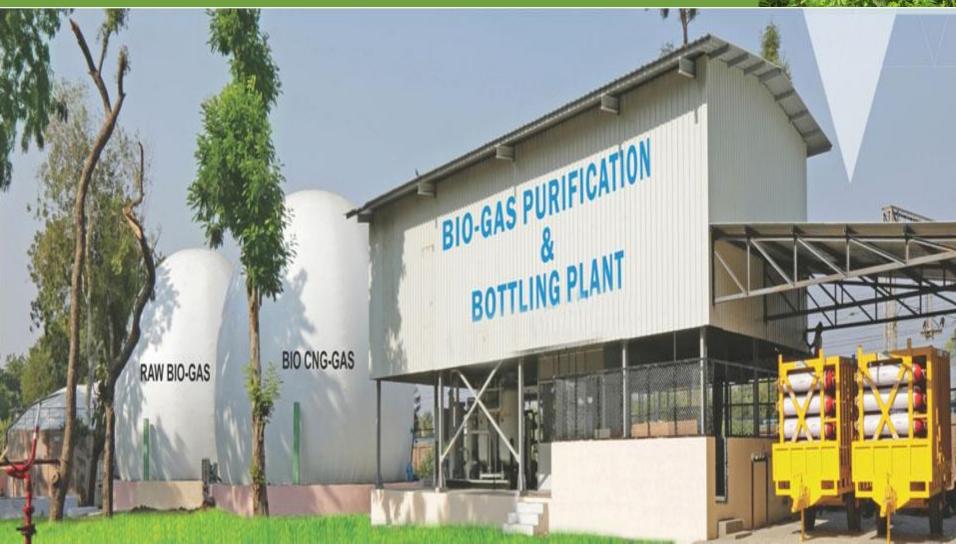


- Clean & Green
- Renewable
- Sustainable
- Cost Effective
- Multi-Purpose usage
- Storagable
- Usable on demand
- Energy Efficient



PLANT OVERVIEW (Amul Dairy)





A FEW OF BIO-GAS SYSTEMS





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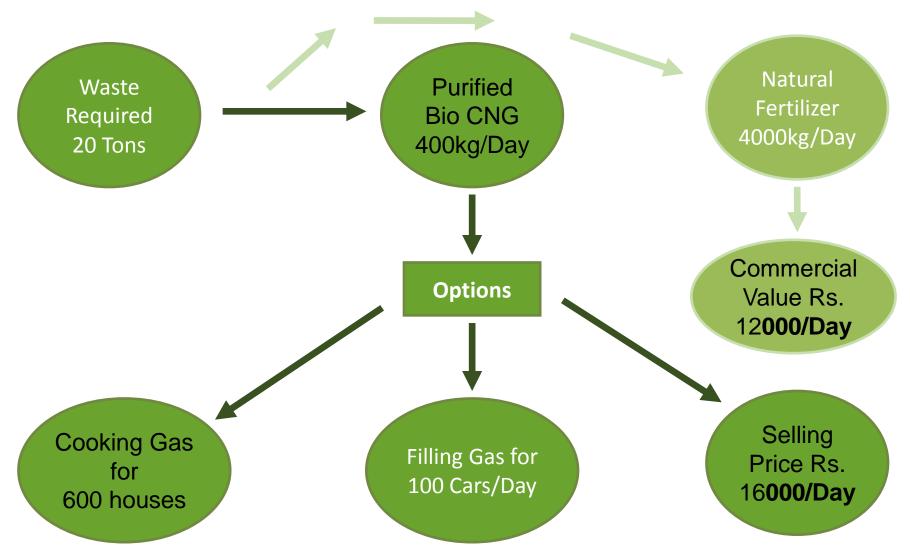


Bharat Biogas

VIABILITY FOR RURAL BIO GAS

(1000 m3 Plant) An Overview for Ref. Only





SPREAD THE WORD



- Help us spread the message of **Smart Village**.
- This project of "Smart Village" can be taken up as a successful Business model by any business house
- Because a Smart India is possible only through Smart Village.
- Government subsidy & Incentivisation can go a long way..
- The time for Rural India to develop is NOW, Let's make it happen. Let's all Create SMART VILLAGE

PRESENT NATIONAL SCHEMES UNDER WHICH SMART VILLAGE CAN BE POSSIBLE



- 1. National Mission for clean Ganga
- 2. Swachh Bharat Abhiyan
- 3. Sansad Adarsh Gram Yojna
- 4. Start up India Stand up India
- 5. Make In India
- 6. CSR

BUSINESS MODEL



- Profit and Loss
- Working capital requirement
- Fixed Capital requirement
- Risk and Contingencies
- Incentives and Advantages
- Pay back period



THANK YOU - Su-Raj Foundation

Creating Smart Villages all over INDIA through

- S- Skill
- E- Education
- E- Environment
- D- Development