



Rural Drinking Water & Sanitation Department
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What is Bio-Gas?



Bio-Gas is the gas produced by systematically processing cattle waste and wet waste.

It is a composition of Methane, Carbon dioxide, Hydrogen & Hydrogen Sulphide.



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Advantages of Bio-Gas



**High
Calorific
value**

High Calorific
value



Can be supplied
through pipe lines



No smoke



No residue



Slurry as manure



Economic benefit



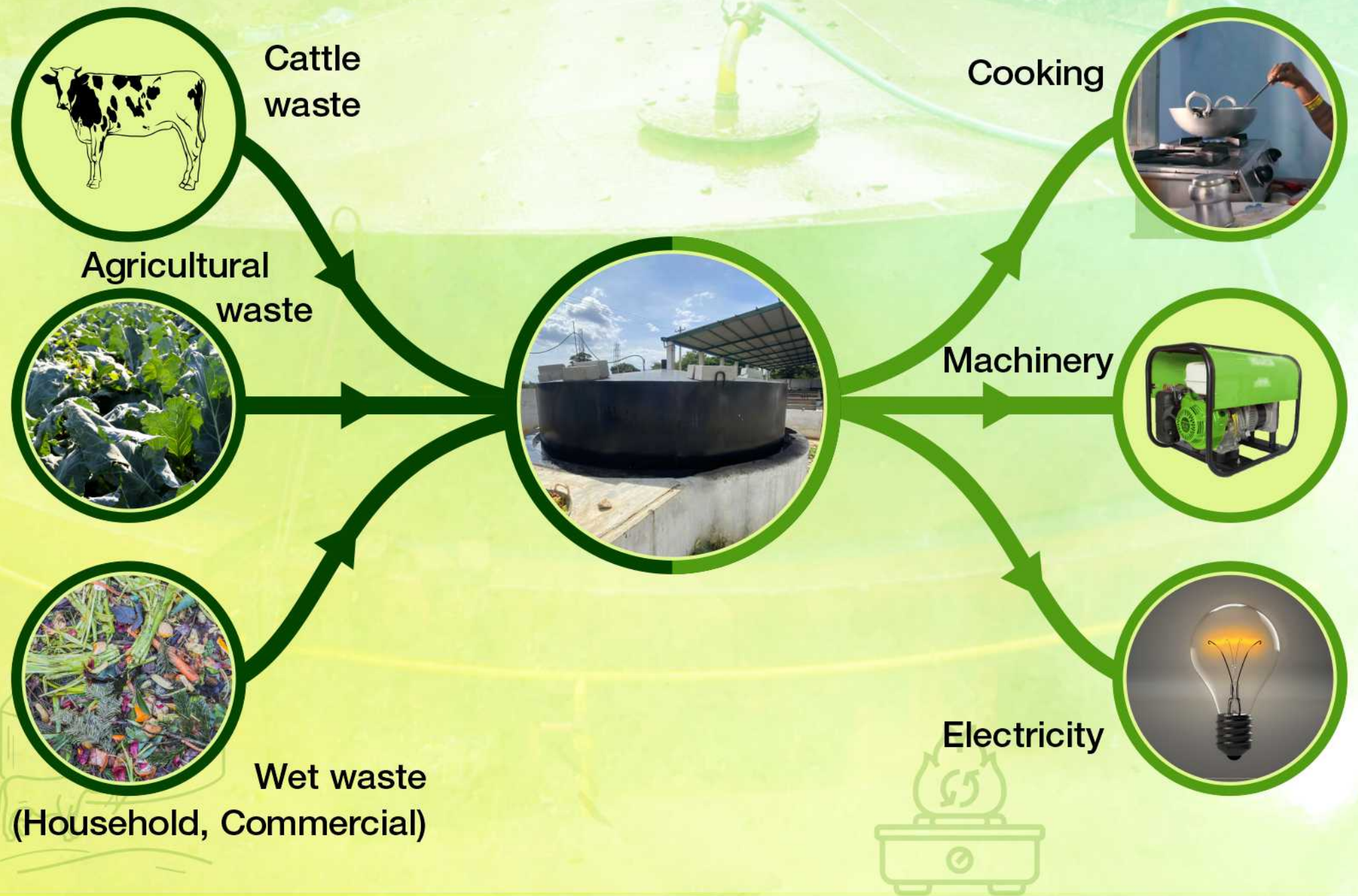
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Process of Bio-Gas Production



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Concept of GOBAR-Dhan

GOBAR(Galvanizing Organic Bio-Agro Resources)-Dhan project was announced in the Budget Speech of the Hon'ble Finance Minister in Feb 2018. This initiative is to support biodegradable waste recovery and conversion of waste into resources. The GOBAR-Dhan scheme is expected to engage with people in safe and efficient management of solid waste, especially the cattle, agricultural & wet wastes in villages so that the villages remain clean.



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Importance of GOBAR-Dhan Unit



Can be used for Cooking,
Electricity Production, Machinery
and Fuel for vehicles



Helps in maintaining
cleanliness and hygiene
in the community



Prevents diseases



Produces high quality
organic manure



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Where can the GOBAR-Dhan unit be implemented?

Where high quantity of wet waste is produced



Gaushalas



Religious Places
having Annadasoha



Swachha Sankeerna
Units



Community Halls



Vegetable/Flower/
Fruit markets



Schools



Hostels





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Institutional Set up

State Technical Advisory Committee

Total
9
Members

State Technical Advisory Committee consists of 9 members including Commissioner, Chief Engineer of RDWSD & Others.

District Technical Advisory Committee

Total
6
Members

District Technical Advisory Committee consists of 6 members including Chief Executive Officer ZP, Nodal Officer ZP & Others.



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Grant for GOBAR-Dhan Unit

Rs. 50 lakh Grant for Every District



सत्यमेव जयते

**60% from
Central Government**



**40% from
State Government**

BIO FUEL

BIOGAS



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Criteria for choosing a GOBAR-Dhan Unit location



Availability of space



Continuous availability of minimum amount of wet waste



Usage opportunities for the produced gas



Proper management and utilization of slurry



Availability of skilled human resources

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Stages of GOBAR-Dhan Unit Implementation

- ❖ Feasibility study in selected location
- ❖ Preparation of Detailed Project Report (DPR) by IREP (Integrated Renewable Energy Program) Engineer (ZP) and SLWM Consultant at the site selected for construction.
- ❖ Implementation of the project in accordance with approvals by the District and State Level Technical Advisory Committee



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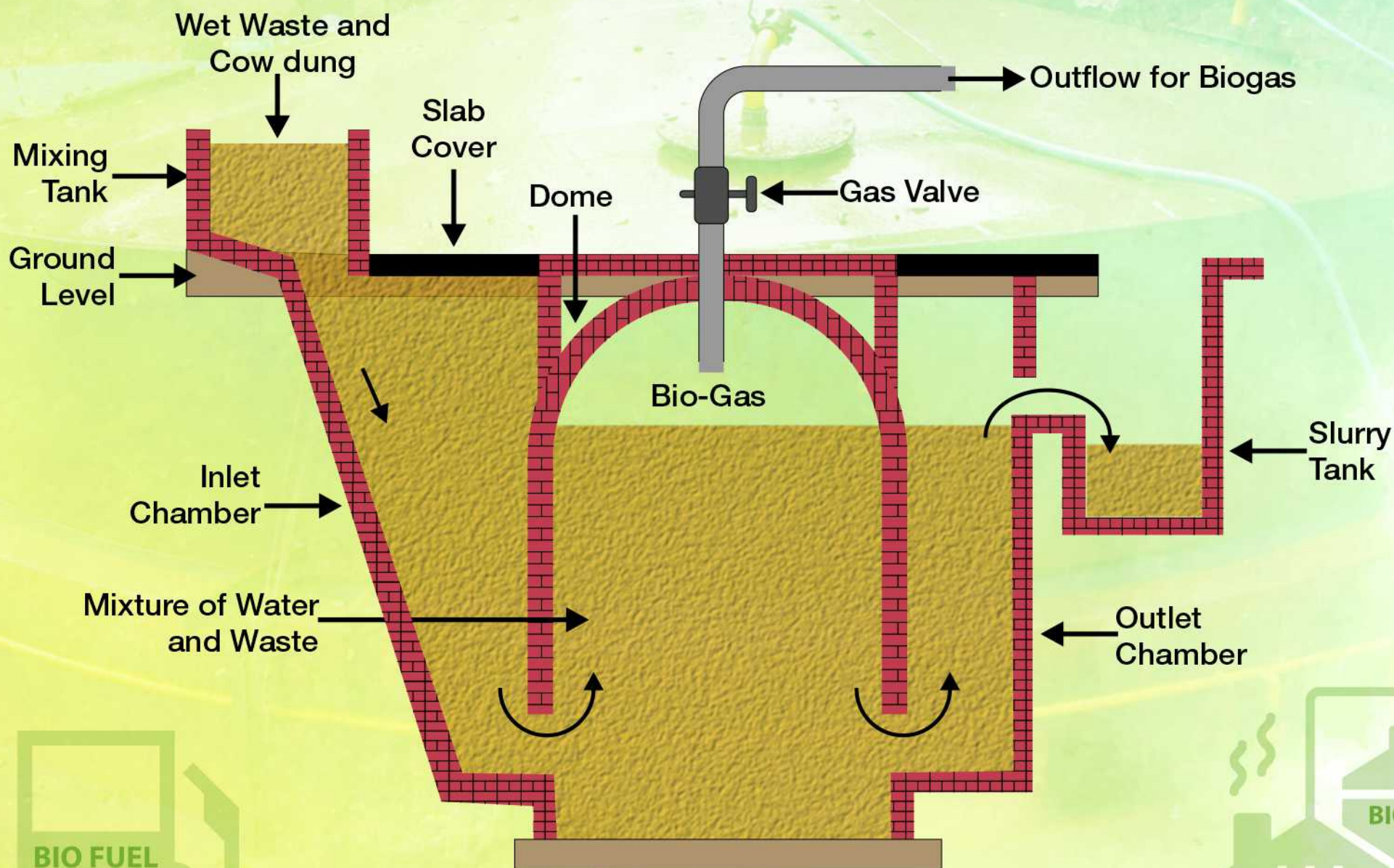
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Different Models of GOBAR-Dhan Unit - 1



Janta Model/Fixed Dome Model



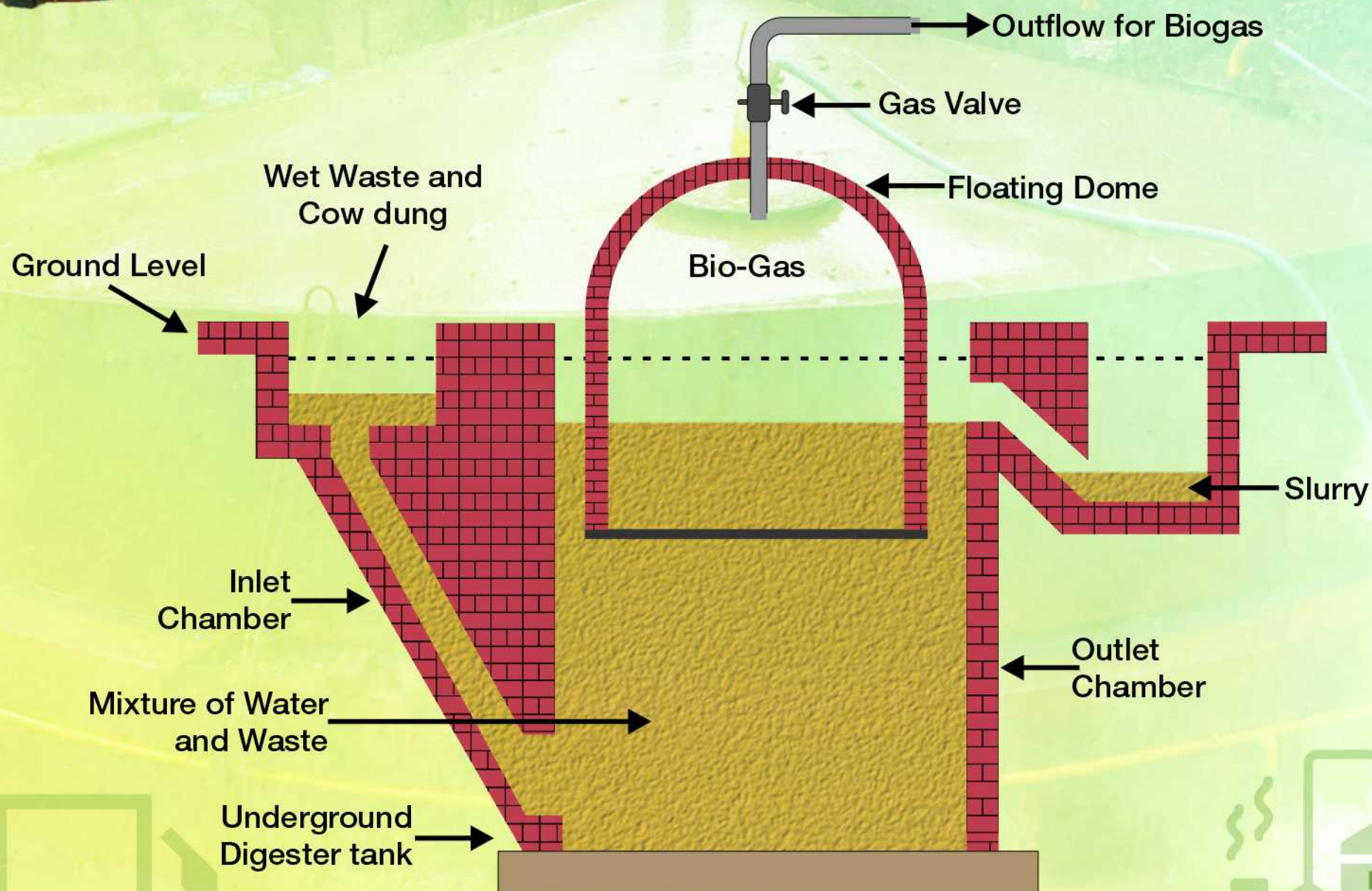
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Different Models of GOBAR-Dhan Unit - 2



KVIC (Floating -Drum Type Biogas Model)



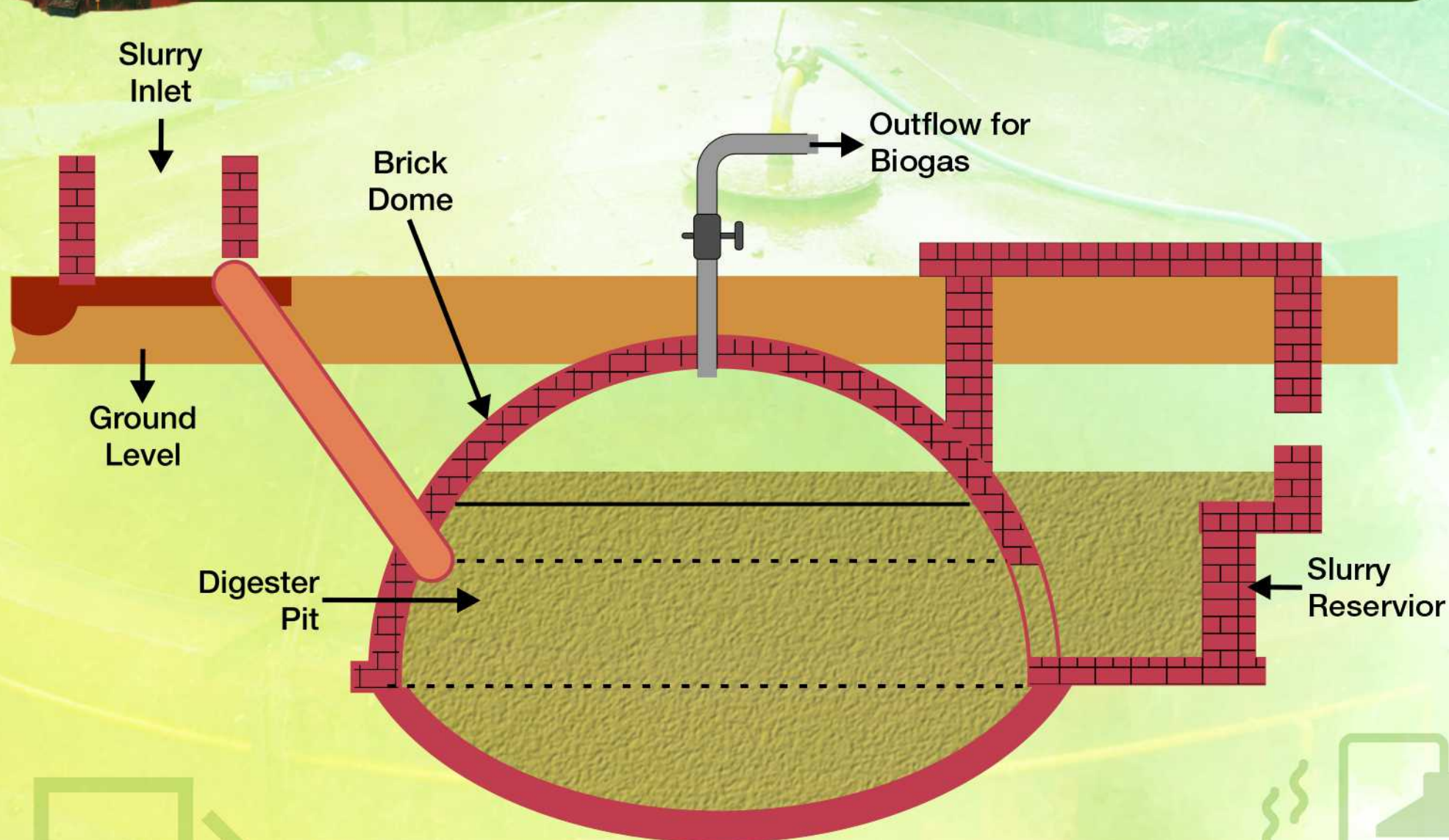
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Different Models of GOBAR-Dhan Unit - 3



Deenabandhu Biogas Plant



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Community's role in construction and management of GOBAR-Dhan Unit

- ❖ Should help in availing the land for construction of the GOBAR-Dhan unit.
- ❖ Should help gathering Cattle waste and Household Wet waste & bringing it to GOBAR-Dhan unit for effective management of the unit.
- ❖ Should Co-operate in forming a group of people who provide wet waste to GOBAR-Dhan unit & form a committee to share the produced gas & compost.
- ❖ Should help in distribution and management of dividend obtained from GOBAR-Dhan unit.



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Gram Panchayat's role in construction and management of GOBAR-Dhan Unit



- ❖ Identifying the location to build GOBAR-Dhan unit in Gram Panchayat level.
- ❖ Having information about houses, Gaushalas, Temples and Mutts, Lodges, Community halls, Market and Schools which produce wet waste.
- ❖ Elected members & village head should organize meetings with Organizations & Institutions construction and management of GOBAR-Dhan unit
- ❖ Helps in maintaining the supply of wet waste for the sustenance of the GOBAR-Dhan unit.
- ❖ Supervising the GOBAR-Dhan unit's Operations & Maintenance.
- ❖ Creating awareness about GOBAR-Dhan Scheme through street plays, jingles, pamphlets and wall paintings.



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GOBAR-Dhan units in Karnataka-1

Operational GOBAR-Dhan units (as on 27-09-2021)

- ❖ Bankuli Mutt GOBAR-Dhan Unit in Bedakani Gram Panchayat, Siddapura Taluk, Uttara Kannada District
- ❖ Vadiraja Mutt GOBAR-Dhan Unit in Sonda Gram Panchayat, Sirsi Taluk, Uttara Kannada District
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna, Varamballi Gram Panchayat Brahmavara Taluk, Udupi District
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna, Bashettyhalli Gram Panchayat, Doddaballapura Taluk, Bengaluru Rural District
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna, Rajanakunte Gram Panchayat, Yelahanka Taluk, Bengaluru Urban District



Bankuli



Varamballi



Bashettihalli



Rajanukunte



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GOBAR-Dhan units in Karnataka-2

GOBAR-Dhan Units that are under Progress (as on 27-09-2021)

- ❖ GOBAR-Dhan Unit in Shri Kshetra Bangaramakki Amrithadhara Gaushala, Nagarabastikeri Gram Panchayat, Honnavara Taluk, Uttara Kannada District.
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna, Nitte Gram Panchayat, Karkala Taluk, Udupi District.
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna, Vandse Gram Panchayat, Kundapura Taluk, Udupi District.
- ❖ GOBAR-Dhan Unit in Swaccha Sankeerna Doddajala Gram Panchayat, Yelahanka Taluk, Bangalore Urban District.

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Nagarabastikeri



Vandse



Doddajala



SWACHHA SANKEERNA



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GOBAR-Dhan units in Karnataka-3

GOBAR-Dhan units under Tender Phase (as on 27-09-2021)

- ❖ GOBAR-Dhan Unit in Shri Kshetra Chennabasaveshwara temple, Ulavi Gram Panchayat, Joida Taluk, Uttara Kannada District.
- ❖ GOBAR-Dhan Unit in Shri Kshetra Kolluru Mookambika temple, Kolluru Gram Panchayat, Byndoor Taluk, Udupi District.
- ❖ GOBAR-Dhan Unit in Shri Kshetra Mandarti Durgaparameshwari temple, Heggunje Gram Panchayat, Brahmavara Taluk, Udupi District.

Uttara Kannada



Udupi



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