

AKSHAYA INNOTECH

Innovating for a better world..



Visakhapatnam, India

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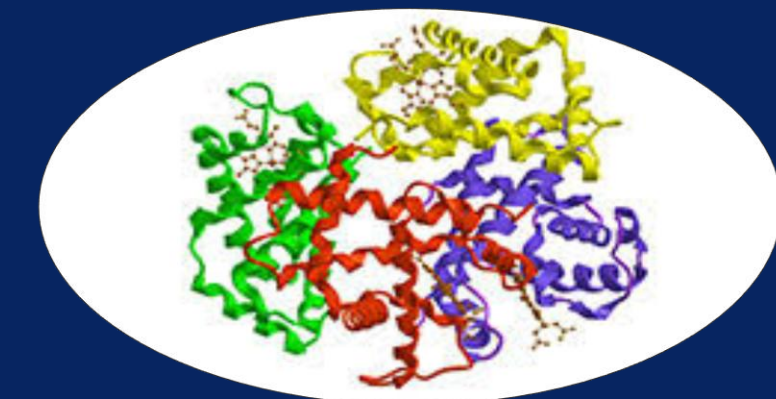
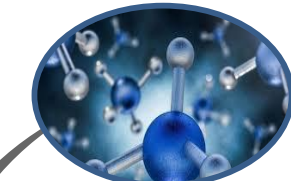
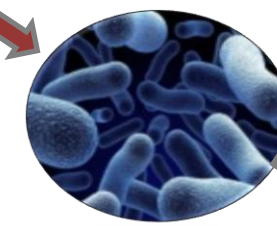
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Akshaya Biodigester

Food Waste (FW) •

FW = Left Over foods, Vegetables, Peels, Oil and Fruits.

- FW is the waste that is collected in the municipal bins / containers
- Sources of FW: Domestics, hotels, Food Outlets, commercial establishments, etc.
- It is consistently INCONSISTENT
 - Design of the treatment facilities is difficult
- It is not hazardous; but the problem is its very large Quantity/Volume and stink.
- It is a problem in Cities / Towns / Municipalities; but not a big issue in Villages / Rural areas
- The problem is FW can be seen and smelled.



Features of Biodigester:

- Eco-Friendly and 100% hazard free.
- Single time feeding of bacteria inoculums throughout operational life.
- Food waste in the bio tank is not visible.
- No clogging of digester.
- Fermentation container is made of MS with FRP lining.
- Anaerobic bacteria can double its population within 6 to 8 hrs.
- De-composes matter into effluent and gases.
- The biodigester can function at temperature between 5° to 50° C.
- Water outlet from biodigester can be used for watering plants in gardens.

Advantages of Biodigester Technology:

- Less than 30% of conventional septic tank area is sufficient.
- Completely eliminates need for human intervention for maintenance as no evacuation is required.
- More than 99% of pathogens are killed and hence it is hygienic and healthy.
- More than 99% of waste is decomposed.
- Low to moderate capital costs; No operating costs.
- Requires no Power to operate, works on gravity flows.
- Occupies less space
- Requires zero maintenance
- Stable against peak loads
- Aesthetically pleasing and no Odors are produced.
- Negligible sludge volume generated.

Biogas Production/kg of Waste = 0.45 Kg	
Food waste Considered per day	100 Kg each Plant
Commercial Cylinder Equivalent/day	1 Commercial cylinder Per Day (19 Kg Weight)
Cost of Each commercial cylinder	Rs. 1250/Cylinder
No of commercial cylinders replaced per month	30
Cost recovery per month	Rs. 37,500/-
Recovery Per Year	Rs. 4,50,000/-

Available Models



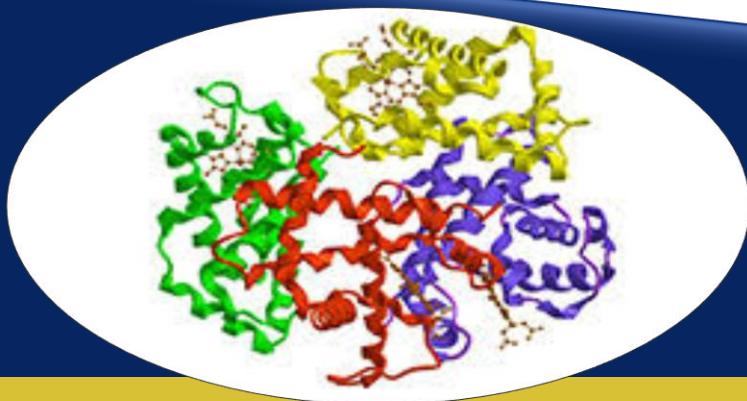
Akshaya Biogest-100



Akshaya Biogest-D



Akshaya Biogest-B

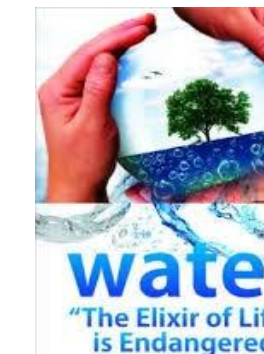


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Come.. Let us Build a sustainable tomorrow