

Kitchen 2 Kitchen Bio-Gas Anaerobic Gas-lift Reactor

High Rated Bio Methanation Technology Patented by CSIR-IICT to recycle Organic waste for quality Bio-gas and liquid manure With small foot-print & adopted for Indian Conditions

COMPARISON OF AGR WITH CONVENTIONAL METHODS			
S No	Parameter	Conv	AGR
1	Dome Type	Floating	Fixed
2	Bio Gas Storage	F drum	Balloon
3	Digester Material	FRP	MS +FRP
4	Mixing of Digestate	No	Yes
5	Scum Formation	Yes	No
6	H R T in days	60	20
7	Hieght to Diameter Ratio	NA	>1 and <1.5
8	Organic Loading Rate (Volatile Solids Loaded) / M3 of digester volume	<1 Kg	<4-5 > Kg
9	Bio Gas Yield / Ton of waste in M3	<60	>120
10	Percentage of Methane	<50	>60
11	Water needed	High	Low
12	Effluent Usage	Low	Optimum
13	Maintainanmce	Tough	Easy
14	Failure Rate	High	Low
15	Life Span	< 5 yrs	>15 yrs
16	Modular Scalable & Portable	No	Yes
17	Portable	No	Yes

Sustainability of Plant		
1	Waste per day in Kg to digester	200
2	Bio Gas Eq. LPG / Day in Kg	8
3	Manure Generated / Day in Kg	100
4	Cost of LPG / Kg in Rs	90
5	Cost of Manure in Rs./ Kg	3
6	Tipping / Processing Fee Rs/ Kg	2
7	Revenue from Gas Rs/ Month	21600
8	Revenue from Manure Rs / Month	9000
9	Revenue from Tipping Fee Rs/ Month	12000
10	Nett Revenue / Month Rs	42600
11	Employeesb Needed	1
12	Salary @ Rs.18000/ Month	18000
13	Power in KWH ? Day	15
14	Power Bill @ Rs.10/ Unit / Month	4500
15	Misc @ Rs.500 / Day	15000
16	Nett Expenses/ Month Rs	37500
17	Nett Earning / Month Rs	5100



Time for Gated Communities, Apartments, Food Courts, Function halls, Canteens, Hostels etc. to manage food waste, for green tomorrow & Swatch Bharat for faster Net Zero

Get bio Gas equalling 8 Kg LPG and 100 ltr Manure every day from 200 Kg of Organic Wet waste/ Day in a 10 x 15 ft Room

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