

PROJECT REPORT
ON
BIOGAS EXTRACTION USING VARIETY OF ORGANIC WASTES

Submitted to
KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY
Under

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Carried out by

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6. Objectives of the project:

As lot of varieties of organic wastes are available in the vicinity of our institution, we thought of using these for producing an alternative source of energy i.e. bio gas. Once we are in a position to extract biogas, we can in turn use the same for cooking purposes in our canteen, run dual fuel engines and generate electricity to run our department laboratories. It saves lot of natural gas that is being currently used in cooking, for which we have to book and wait for weeks for its supply. This project will produce enriched organic manure, which can supplement chemical fertilizers and we can promote organic farming. Leads to improvement in the environment, sanitation and hygiene. Leads to employment generation in the rural areas

7. Methodology Adopted:

- I. Initially we had carried out a survey of the surrounding areas wherein it is possible for us to identify the availability of organic wastes .i.e. The College Canteen

Waste composition	Normal days In KGs	Holidays In KGs
Food waste(rice + other eatables)	50-60	30-40
Raw vegetable waste	15-20	20-25

- II. Based on the quantity of availability, we thought of setting up a plant of capacity 6 m^3 for bio gas production, but due to limited funds we reduced the size to 0.75m^3 capacities.
- III. As the Funds are Limited we cannot go for civil work due large investment & more time so contacted the Sintex Company to provide us a plant based on our dimensions so that the equipments can be installed at our site. *See Annexure I for detailed drawings & dimensions*