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Project Report on

“NON CONVENTIONAL ENERGY FROM FOOD WASTE”

A Sanctioned project by KSCST under 34th series student project proposal

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ABSTRACT

Non conventional energy is also called Renewable energy sources that are continuously replenished by natural processes. Due to depletion of Conventional energy there is huge scope for Non conventional energy sources such as solar energy, Bio gas etc. This project was conceptualized to demonstrate what could be done with vegetable waste generated locally, with minimal investments.

The vegetable waste is collected and this waste is used for generation of biogas using anaerobic decomposition. The biogas produced usually contains methane along with other gases such as Carbon dioxide, Hydrogen sulphide etc.

Segregation of gases is done by passing the biogas over the lime solution. Carbon dioxide and Hydrogen sulphide reacts with lime, gets absorbed and methane free from these is obtained.

The presence of methane is confirmed by conducting Flame test and lighting the mantle lamp.

The methane could be used for several applications such as cooking gas, illumination of mantle lamps, running of automobiles.