

F. No. 7-3/2007-BE  
Ministry of New and Renewable Energy  
(Bio-Energy Development Group)

**Soliciting RD&D and technology transfer proposals for Pre-fabricated, efficient and affordable Biogas Plants for semi-urban and urban Areas**

Bio-Energy Group of the Ministry of New and Renewable Energy is looking for technology for pre-fabricated, efficient, operationally convenient and aesthetically beautiful biogas plants suitable for installation primarily in semi-urban and urban areas for processing of kitchen and garden based biomass wastes and provide green energy as a power house for kitchen having following features: -

- i) **Capacity:**  $\frac{1}{2} \text{ m}^3$ ,  $1 \text{ m}^3$  and  $2 \text{ m}^3$ .
- ii) **Feed material:** Leafy, powdery green and dry biomass wastes from kitchens and gardens, etc.
- iii) **Hydraulic retention time:** 7-10 days.
- iv) **Physical shape and size:** Similar to refrigerators and washing machines.
- v) **Aesthetics:** Similar to refrigerators and washing machines.
- vi) **Technology Key/ Parameters:** Robust micro organisms/ bacteria, biochemical/ chemical additives for higher gas production, better digester design, mechanical/ electrical stirrers & pumps, timer, sensors for auto operations, low/ least water consumption, dried/ semi-dried bio-manure, etc.
- vii) **Target User Locations:** Primarily houses and flats in multi-storey buildings of semi-urban and urban areas.
- viii) **Cost:** Similar to refrigerators and washing machines.

2. Institutions, industries and consortiums there of already having technology for the said systems and those interested in the development of the technology towards above technological and cost goals are invited to submit their proposals in accordance with the RD&D Policy order and formats given at the website of the Ministry: <http://mnre.gov.in>

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