"KVIC- PMEGP

PROJECT PROFILE ON BIO-DIGESTED SLURRY

Introduction:
The biogas technology is attributed with dual benefits in the form of supply of clean and high
calorific fuel to meet the domestic fuel needs of rural areas and provision of anaerobically digested
slurry with high manural value. In addition to this, it is known to reduce the pathogenic load of night
soil at a substantial level when toilets are attached to the biogas plants. Hence, it is an eco-friendly
technology helping to reduce the destruction of forests by offering a fuel alternative to wood at the
doorstep of the house and accruing a social benefit in way of alleviation of the drudgery of women in
collection of firewood and cooking. It is also an environmentally sound technology as it provides a safe
method for disposal of organic waste preventing spread of diseases and controlling pollution.
Considering all these attributes together, the nutrient recovery through anaerobic digestion in biogas
plant represents a more economic and efficient option in obtaining good quality manure for our farming
system.

1  Name of the Product: Bio Digested Slurry

2  Project Cost:
   a Capital Expenditure
      Land: Own
         Work shed in sq.mts rented: 1000 Rs. 200,000.00
         Equipment: Rs. 1,875,000.00
      Bio Gas Plant 85 Cumt Capacity (3 Plants), Shovel for Mixing, Sieving Machine,
      Cutter & Blender, Sewing Machine, Drying bed of Size 20’ x 10’ x 3’ Total (20 nos)
      Total Capital Expenditure: Rs. 2,075,000.00
   b Working Capital
      Rs. 400,000.00
      TOTAL PROJECT COST: Rs. 2,475,000.00

3  Estimated Annual Production Capacity:
   (Rs. in 000)

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Capacity in No./annum</th>
<th>Rate</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BioGas &amp; Bio Manure</td>
<td>85000.00</td>
<td>2040</td>
<td>2577.50</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>85000.00</strong></td>
<td><strong>2040.00</strong></td>
<td><strong>2577.50</strong></td>
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<tr>
<td>4</td>
<td>Raw Material</td>
<td>Rs.</td>
<td></td>
<td>765,000.00</td>
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<tr>
<td>5</td>
<td>Labels and Packing Material</td>
<td>Rs.</td>
<td>50,000.00</td>
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<tr>
<td>6</td>
<td>Wages (5-Skilled &amp; 15 UnSkilled)</td>
<td>Rs.</td>
<td>1,000,000.00</td>
<td></td>
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<tr>
<td>7</td>
<td>Salaries 1- Manager/ Enterprenure</td>
<td>Rs.</td>
<td>120,000.00</td>
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</tbody>
</table>

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system.
8 Administrative Expenses : Rs. 100,000.00
9 Overheads : Rs. 125,000.00
10 Miscellaneous Expenses : Rs. 75,000.00
11 Depreciation : Rs. 197,500.00
12 Insurance : Rs. 20,750.00
13 Interest (As per the PLR)
   a. C.E.Loan : Rs. 269,750.00
   b. W.C.Loan : Rs. 52,000.00
Total Interest Rs. 321,750.00
14 Working Capital Requirement
   Fixed Cost Rs. 585,500.00
   Variable Cost Rs. 1,992,000.00
   Requirement of WC per Cycle Rs. 429,583.00

15 Cost Analysis

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Capacity Utilization (Rs in '000)</th>
<th>100%</th>
<th>60%</th>
<th>70%</th>
<th>80%</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Fixed Cost</td>
<td></td>
<td>585.50</td>
<td>351.30</td>
<td>409.85</td>
<td>468.40</td>
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<tr>
<td>2</td>
<td>Variable Cost</td>
<td></td>
<td>1992.00</td>
<td>1195.20</td>
<td>1394.40</td>
<td>1593.60</td>
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<tr>
<td>3</td>
<td>Cost of Production</td>
<td></td>
<td>2577.50</td>
<td>1546.50</td>
<td>1804.25</td>
<td>1862.80</td>
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<tr>
<td>4</td>
<td>Projected Sales</td>
<td></td>
<td>3500.00</td>
<td>2100.00</td>
<td>2450.00</td>
<td>2800.00</td>
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<tr>
<td>5</td>
<td>Gross Surplus</td>
<td></td>
<td>922.50</td>
<td>553.50</td>
<td>645.75</td>
<td>738.00</td>
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<tr>
<td>6</td>
<td>Expected Net Surplus</td>
<td></td>
<td>725.00</td>
<td>356.00</td>
<td>448.00</td>
<td>541.00</td>
</tr>
</tbody>
</table>

Note: 1. All figures mentioned above are only indicative.
2. This is model project profile for guidance.
3. Cost of Project, and its proifility will be changed depends on the area, availability of raw Material, man power, power requirement and various other factors etc..