I. INTRODUCTION:

The demand for distilled water required for battery charging is of considerable value. Preparation of distilled water for battery charging seems to be one of the most prospective venture in small cities.

II. MARKET POTENTIAL

This unit can cover about 30 km radius in semi-urban area which has around 2000 four wheelers and it can also cater to the need of small laboratories. Considering the above consumers, the capacity is fixed at 6.0 lakh litres per year.

III. BASIS AND PRESUMPTIONS:

The approximate estimate for setting up of unit to produce 6.0 lakh litres distilled water per year. The unit will work for 8 hours per day with 300 working days in a Year.

IV. IMPLEMENTATION SCHEDULE:

The unit can be set up in 6 months.

V. TECHNICAL ASPECTS:

1. Process of Manufacturing:

Raw water, which is having solids of 1000-1200 ppm, is charged into ion exchanges. After the water is treated in the ion exchange, distilled water of 5 ppm range dissolved solids is obtained. The PH value would range from 8.0 to 8.5 and the electrical conductivity will be up to 30 ms per cm.

2. Quality Specification IS:

1069-1964 specification

3. Production Capacity per annum

Quantity: 300000 litres

Value: Rs.450000

4. Motive Power:

3 Phase
VI. TOTAL CAPITAL INVESTMENT

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fixed Capital</td>
<td>110000</td>
</tr>
<tr>
<td>2</td>
<td>Working capital</td>
<td>29150</td>
</tr>
<tr>
<td></td>
<td>Total cost</td>
<td>139150</td>
</tr>
</tbody>
</table>

VII. MEANS OF FINANCE

1. Promoter's Contribution (5% of total cost) 6957
2. PMRY subsidy (15% of total cost or Rs.7500, whichever is less) 7500
3. Bank loan (total cost - (Promoter's Contribution + PMRY subsidy)) 124693

VIII. FINANCIAL ASPECTS

1. FIXED CAPITAL

i) Land & Buildings: Rented premises 500 sft. Rent of Rs.1500 pm.

ii) Machinery & Equipment

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Quantity</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Demineralised plant -200 ltr. Capacity</td>
<td>1</td>
<td>70000</td>
</tr>
<tr>
<td>2</td>
<td>Glass carboys- 500 capacity</td>
<td>10</td>
<td>5000</td>
</tr>
<tr>
<td>3</td>
<td>PVC carboys- 300 capacity</td>
<td>50</td>
<td>15000</td>
</tr>
<tr>
<td>4</td>
<td>Laboratory equipment</td>
<td></td>
<td>10000</td>
</tr>
<tr>
<td>5</td>
<td>Steel almirah</td>
<td></td>
<td>1500</td>
</tr>
<tr>
<td>6</td>
<td>Fans</td>
<td></td>
<td>2500</td>
</tr>
<tr>
<td>7</td>
<td>Miscellaneous</td>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>8</td>
<td>Pre-operative expenses</td>
<td></td>
<td>5000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>110000</td>
</tr>
</tbody>
</table>
2. WORKING CAPITAL

i. Staff & Labour per month

<table>
<thead>
<tr>
<th>S.No</th>
<th>Designation</th>
<th>No</th>
<th>@ Rs.</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manager</td>
<td>1</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>2</td>
<td>Workers</td>
<td>3</td>
<td>1000</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td>4500</td>
</tr>
</tbody>
</table>

ii) Raw Material (p.m.)

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Quantity</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Water</td>
<td>25000 ltr.</td>
<td>10000</td>
</tr>
<tr>
<td>2</td>
<td>Chemicals resins</td>
<td></td>
<td>1250</td>
</tr>
<tr>
<td>3</td>
<td>Miscellaneous</td>
<td></td>
<td>5000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>16250</td>
</tr>
</tbody>
</table>

iii. Utilities per month

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power</td>
<td>1250</td>
</tr>
<tr>
<td>2</td>
<td>Water</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>2150</td>
</tr>
</tbody>
</table>

iv. Other expenses per month

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Packing materials</td>
<td>2500</td>
</tr>
<tr>
<td>2</td>
<td>Stationery, telephone, postage</td>
<td>1000</td>
</tr>
<tr>
<td>3</td>
<td>Conveyance, transport</td>
<td>1250</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>4750</td>
</tr>
</tbody>
</table>
v. Total working capital per month

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.,</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rent</td>
<td>1500</td>
</tr>
<tr>
<td>2</td>
<td>Staff and labour</td>
<td>4500</td>
</tr>
<tr>
<td>3</td>
<td>Raw materials</td>
<td>16250</td>
</tr>
<tr>
<td>4</td>
<td>Utilities</td>
<td>2150</td>
</tr>
<tr>
<td>5</td>
<td>Other expenses.</td>
<td>4750</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>29150</td>
</tr>
</tbody>
</table>

IX. COST OF PRODUCTION PER ANNUM

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Total working capital</td>
<td>349800</td>
</tr>
<tr>
<td>2</td>
<td>Depreciation on machinery</td>
<td>10500</td>
</tr>
<tr>
<td>3</td>
<td>Interest on total capital investment</td>
<td>20873</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>381173</td>
</tr>
</tbody>
</table>

X. TURNOVER PER YEAR

<table>
<thead>
<tr>
<th>S.No</th>
<th>Item</th>
<th>Quantity</th>
<th>Rate Rs.</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Distilled water</td>
<td>300000 ltr.</td>
<td>1.50</td>
<td>450000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td>450000</td>
</tr>
</tbody>
</table>
XI. FIXED COST PER YEAR

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Depreciation</td>
<td>10500</td>
</tr>
<tr>
<td>2</td>
<td>Interest</td>
<td>20873</td>
</tr>
<tr>
<td>3</td>
<td>Rent</td>
<td>18000</td>
</tr>
<tr>
<td>4</td>
<td>40% of salaries &amp; wages</td>
<td>21600</td>
</tr>
<tr>
<td>5</td>
<td>40% of other expenses (utilities+OE)</td>
<td>33120</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>104093</td>
</tr>
</tbody>
</table>

XII. PROFIT ANALYSIS

Net Profit: sale-total cost =450000 - 381173 = 68827
% of Profit on Sale: Profit / Sale x100 = 15.30%
% of Return on Investment: Profit / (Investment) x 100 = 68827 / 139150 x 100 = 49.46%
Break-Even Analysis: FC / (FC+Profit) x100 = 104093 / 104093 + 68827 x 100 = 60.20%

XIII. MACHINERY SUPPLIERS

Locally available