

# LIQUID DETERGENT

## **1. INTRODUCTION :**

Liquid detergent is a type of detergent i.e. cleaning agent. Its popular use is to wash woolen cloth but it is also used for washing of utensils specially glass and crockery, and for automobile wash. Now a days it is widely used in washing machines, laboratories etc.

## **2. MARKET :**

There are few brands are available in the market which is for woolen cloth washing. But few MSME units are also having good marketing their products. Considering the fact that it does not contain any filler material which deposited on the cloth surface, its popularity is increasing in conscious people. There is good potential of this product of good quality and economical prices.

## **3. BASIS & PRESUMPTIONS :**

1. The basis of calculation of production capacity is on single shift basis and working of 25 days per month.
2. Rate of interest has been taken @ 18% per annum on an average on working capital and total capital investment.
3. Whereas some names of manufacturers and suppliers of raw materials, machinery & equipments are at the end of the profile are by no means exclusive or exhaustive.
4. The cost of machinery & equipments indicated in the profile are approximate those prevailing at the time of preparation of the profile.
5. Non-refundable deposits of preparation of project report may be considered under pre-operative expenses.
6. The provision made in raw materials, utilities, overhead etc. is drawn on the basis of local market conditions/ observations and in approximate. The entrepreneur may find out the exact cost from the concerned sources.
7. License is required under Drug & Cosmetic Act from state drug controller.

## **4. IMPLIMENTATION SCHEDULE**

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|---|---------|
| 1. Registration of the unit with DIC                                    | 10 days |
| 2. Procurement of finance through Bank or other financial institutions. | 45 days |
| 3. Procurement of machines  | 30 days |
| 4. Commercialization of the unit/ Trial production.                     | 10 days |

## **5. TECHNICAL ASPECTS :**

### **1. Process of manufacture :**

It is a neutralization process of Acid slurry by Caustic Soda keeping pH 7 to 9. Acid slurry and water is mixed slowly in the mixer, after that it is neutralized by the aq. Solution of caustic soda to get the required pH. AOS is used as foam booster while urea is a buffering agent and also create transparency. Lastly colour and perfume is added.

### **Quality Specification :**

It may be manufactured as per customer's specification

### **2. Production Capacity :**

	<b>Capacity Installed</b>	<b>75% Capacity Utilization(I Yr.)</b>
a) Quantity	<b>1,35,000 Kg</b>	<b>1,01,250 Kg</b>
b) Value (in Rs.)	<b>82,83,000</b>	<b>62,12,250</b>

### **3. Power Requirement :**

Connected Load : 5 KWH

### **5. Pollution Control :**

Though there is no discharge of effluent during manufacturing of Liquid detergent but care should be taken to avoid the chemicals in washings.

### **6. Energy Conservation :**

The adequate measures for energy conservation and illumination will reduce the wastage of energy.

## 6. FINANCIAL ASPECTS :

### I. Fixed Capital :

<b>1. Land &amp; Building :</b>	<b>(value in Rs.)</b>
Land 200 sq. meter @ 200/- sq.m.	40,000
Covered Area – 150 sq.m. @ 2200/- sq.m.	3,30,000
	<b>Rs. <u>3,70,000</u></b>

### 2. Machinery & Equipments :

#### a) Production unit

Details	Qty/No.	Price (in Rs.)
1. S.S. Vessel with stirrer, low speed Cap. 200 kg	1	50,000
2. Bottle filling machine .Semi automatic	1	35,000
3. Storage Tanks , SS, Cap. 200 Liters	2	30,000
4. Tools & Misc. equipments	LS	5,000
8. Testing & laboratory equipments	LS	20,000
7. Installation & Electrification charges @ 10% of machinery	-	13,500
8. Office furniture, equipment & fixtures.	LS	20,000
		<b>Rs. <u>1,73,500</u></b>

<b>3. Pre-operative Expenses</b>	<b>10,000</b>
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**Total Fixed Capital :**

**Rs. 3,70,000 + 1,73,500 + 10,000** **5,53,500**

**II. Working Capital :**

*1. Personnel :*

<u>Designation</u>	<u>No.</u>	<u>Salary (PM)</u>	<u>Total (in Rs.)</u>
1. Manager/ Chemist	1	8000/ -	8,000
2. Skilled Worker	1	5000/ -	5,000
3. Semiskilled Worker	2	3000/-	6,000
4. Sales man	2	3500/-	<u>7,000</u>
			26,000
Perquisites @ 15% of salaries			<u>3,900</u>
			<b>29,900</b>

*2.Raw Material : (PM)*

<u>Particulars</u>	<u>Qty/kg</u>	<u>Rate(Rs)</u>	<u>Value(Rs.)</u>
1. Acid Slurry – 80%	2115	85	1,79,775
2. Caustic Soda	220	30	6,600
3. AOS	175	46	8,050
4. Urea	1270	20	25,400
5. Colour	35	400	14,000
6. Perfume	8	600	4,800
7. Plastic bottles & Canes			
500 ml cap.	8100 No.	8	64,800
5 litre cap	890 No.	25	22,250
8. Corrugated boxes	LS	-	<u>10,000</u>
			<b>3,35,675</b>

**3. Utilities (PM) :**

Power and Electricity	1000 KWH @ 6/-	<b>6,000</b>
Water		<b><u>1,000</u></b>
		<b>7,000</b>

**4. Other Contingent Expenses (PM) :**

1.Postage & Telephone	2,000
2.Consumable Store	2,000
3.Repair & Maintenance	2,000
4.Transport charges	7,000
5.Advertisement & Publicity	17,000
6.Insurance	1000
7.Sales Expenses	7,000
8.Misc.Expenditure	<u>2,000</u>
	<b>40,000</b>

**5. Total Recurring Expenditure (P.M.) :**

1. Personnel	29,900
2. Raw material	3,35,675
3. Utilities	7,000
4. Other contingent expenses	<u>40,000</u>
	<b>4,12,575</b>

**6. Total Working Capital ( For 3 months) :**

Rs. 4,12,575 X 3	<b>12,37,725</b>
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**7. Total Capital Investment :**

1. Fixed Capital	<b>5,53,500</b>
2. Working Capital (3 months)	<b>12,37,725</b>
	17,91,225
Say	<b>17,91,000</b>

**8. Financial Analysis :**

**A. Cost of Production (Per Annum) :**

1. Total recurring cost	49,50,900
2. Depreciation on building @ 5% per annum	16,500
3. Depreciation on machinery & equipment @ 10% per annum	14,850
4. Depreciation on furniture & fixtures @ 20% per annum	5,000
5. Interest on total capital investment @ 18% per annum	3,22,380
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	<b>53,09,630</b>
Say	<b>53,10,000</b>

**B. Turnover (Per Annum) :**

Item	Qty.(No)	Rate(Rs.)	Value(in Rs.)
Liquid Detergent			
1. 500 ml	96,000	32.00	30,72,000
2. 5 Litre	10,644	295.00	<u>31,39,980</u>
			<b>62,11,980</b>

**C. Net Profit(Per Annum) :**

(Before Income-Tax)

Rs. **62,11,980 – 53,10,000**

9,01,980

Say

**9,02,000**

**D. Net Profit Ratio :**

14.50 %

**E. Rate of Return :**

50.00 %

**F. B.E.P. :**

43.00 %

***10. Address of machinery manufacturers & suppliers :***

1. M/s Singhasini Engg. Works, B- 4/25 , Factory Area, Fazalganj, Kanpur.
2. M/s Golden Engg., A-13, Vishal Enclave, Najafgarh Road, New Delhi.
3. M/s K.S.Krishna & Associates, 15, Community Centre, East of Kailash, New Delhi
4. M/s Corporated Engg., 7, Chitranjan Avenue, Kolkata

***11.Address of raw material suppliers :***

Available with local dealers.

***12.Resource Centre of Technology :***

Hercourt Butler Technological Institute, Kanpur.  
Technical Consultants.