



PROJECT PROFILE ON BLACK DISINFECTANT FLUID

Product Name	BLACK DISINFECTANT FLUID
Product Code-	319917509
Production Capacity Per Annum	180 M.T
Value In Rs Per Annum	57.60 Lacs
Month & Year of Preparation	Feb.-March-2019
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INTRODUCTION:- Phenyl is an emulsion prepared by addition of rosin, Cresote oil and liquid soap. It is found black or dark brown colour in high viscous form on mixing with water it is converted into milky colour. In our country it is being used to kill the germs, Parasites, Micro-organism and the similar type bacteria and fungi also in residential houses, Cinema halls, Hospitals and offices. Therefore the demand of Phenyl is increasing day by day. Rather its increase in demand is directly proportional to increase level of consciousness toward health and hygiene. Phenyl is an essential requirement in summer and rainy season. The Manufacture of phenyl is widely distributed in small scale sector which contribute about two third of total population by small scale Industries. The manufacture of phenyl are also reserve for small scale sector. This is an industry which can be started on very small scale sector or say as a Micro enterprise. Therefore this type of industries may be easily establish with low investment in the region.

MARKET- In the state there are very less manufacture in the state, Due to this to fulfill the requirement of the region the most popular brands are coming from other parts of country. The most popular brand Gainda, Doctor, Bengal, Surekha Trishul are coming from other parts of India.

The black phenyl is used as a cheap and strong disinfectant to kill the micro-organism and all other similar type of parasites. It find application in Hospitals, Cinema Halls, Restaurants, Laboratories, Govt. establishments as well as non govt. organizations. With the change living styles of peoples both in rural and urban areas particularly from the angle of hygiene and cleanness. The use of phenyl has increased tremendously in recent past. By using phenyl establishment like Hospitals, Cinema Hall and hotels are maintaining mandatory hygiene in the area. Therefore the rate of use of disinfectant fluid is increasing day by day and hence it has got a good market potential both at domestic and export market. Further due to much demand in CPSUs and guidelines of Public Procurement Policy and Govt. Store purchase programme for Micro and Small Enterprises product may easily manufacture in MSEs may supply to the govt. buyers.

PROPERTIES OF PHENYL :

Phenyl is an agent which uses to destroy the pathogen and micro-organism, hence it find number of uses. The main use of phenyl is sanitation for drains, doors, stables etc. A good phenyl should have following properties-

1. Phenyl should be a deodorant; It should not have any unpleasant odour or strain in the area to be disinfected.
2. It should be homogenous in nature and should not leave any sediment on keeping for long time.

3. It should not be poisonous for human being or should not leave any poisonous effect on the body of the user.
4. It should not be corrosive to the animal tissues
5. It should have pleasant odour and colour.

IMPLEMENTATION SCHEDULE

Project Implementation will take approx Six month from the date of approval of scheme In case of Phenyl manufacturing proper approval from Drug Control of the state is mandatory before opening the industries of Black phenyl as the product comes under the Drug and Cosmetic Act. The breakup of the some main activities are given as under. More than one activities can be run simultaneously-

S.No	Name of the Activity	Proposed Time
1.	Market Survey, selection of site and preparation of Project Profile	One Month
2.	MSME registration from Concerned DIC	Two Weeks
3.	Finance /Loan approval from financial institutions/ Bankers	Two Months
4.	Approval from State Drug Controller	Two Weeks
5.	Power connection and Construction of Building	Four Months
6.	Machinery Procurement and Trial Run	One Months
7.	Recruitment of Staff & Labour	Two Weeks
8.	Actual Commercial Production	Two Weeks

BASIS AND PRESUMPTIONS :-

The project has been drafted taking into account of the following aspects:-

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|----|----------------------------------|----------|
| 1. | No. Of Working Days in a Day | One |
| 2. | Duration of the Shift in a day | Hours |
| 3. | Number of Working Days in a Year | 300 Days |
| 4. | Working Efficiency of the Unit | 75% |

5. Construction of Building will be as per the requirement of Manufacturing Activity and as laid down in drug and cosmetic Act.
6. The estimates are drawn from a production capacity generally considered techno economically viable for a modern type of manufacturing unit.
7. The quality Standard must be followed as per specification
8. The wages of staff and labour is taken as per the prevailing labour wages in the market.
9. The rate of Interest will be as per prevailing in the market
10. Plant and Machinery , Testing Equipments & all other equipments used in manufacturing such type of products may also be employed in manufacturing and testing of all other similar type products.
11. Although Unit is free from Pollution and effluent discharge but still provision of exhaust fan may ensure the fresh environment.
12. In case of non availability of fund for construction of building such type of enterprises may be started in rented building also. it not only save your time but bank loan interest also so that product should be more cost effective.

MANUFACTURING PROCESS :-

The Common Manufacturing process for manufacturing of black disinfectant fluids involves saponification of fatty oils and caustic soda. For preparing soft soap a boiling solution of caustic soda (30 Tw)is added to a mixture of fatty oil and molten rosin. The proportions of the constituents are adjusted to give 1.0-1.5% excess of alkali and heated at the temperature between 60-65 degree Centigrade.

The soft soap is now dissolved in hot water cresote oil including other ingredients are added to yield a brown or black Fluid. During the mixing continuous stirring done for obtaining homogenous liquid. In this liquid water is added in the end ,the product is ready to use . The batch time ranges from two and half hour to three and half hour.

Composition of Black Disinfectant Fluid should be as given below-

1.	Soft Soap Containing Rosin	35 Kg
2.	Cresote Oil	10 Kg
3.	Mono Chloro Phenol	0.5 Kg
4.	Water	54.5 Kg

Before packing in the bottles in hot mass more water may be added to dilute the mixture and to make homogenous.

QUALITY CONTROL AND STANDARDS:-

The Indian standard specification for Black Disinfectant Fluid is IS-1061-1962

FINANCIAL OUTLAY

(A) Fixed Capital Investment

LAND AND BUILDING

Land- 400 Sq Meters @ 5000/ per sq. meter- = **Rs.20.0 Lakhs**

Building- Covered Area approx. 350 sq meters should be in following manners

1	Manufacturing Shed for manufacture of Detergent Powder 10 x 10 sq Mtrs	100 Sq Mtrs
2.	Raw material storage section 10 x6 sq mtrs	60 Sq mtrs
3.	Finished Product Storage Room 10 x6 sq Mtrs	60 Sq mtrs
4.	Office 10 x 8 sq mtrs	80 Sq Mtrs
5	Laboratory 6 x 5 Sq mtrs	30 sq mtrs
6.	Utilities 5 x4 sq Mtrs	20 Sq mtrs
	TOTAL COVERED AREA-	350 Sq Meters

Construction Value of 350 Sq Meters @ 4500/- Per Sq Mtrs =15.75 Lacs

Total Cost Of Land and Building= Rs. 20.00 +15.75 = **Rs .35.75 Lacs**

It is advisable to purchase land in out skirt of city where rates are comparatively less compare to main city.

PLANT AND MACHINERY:

S.No	Description Of M/c	Qty	Rate per unit (in Lacs)	Value (Rs)in Lacs
1	MS Double walled reaction vessel with steam jacketed capacity One ton	2	3.5	7.0
2	Bottle filling and sealing equipments	2	0.75	1.50
3	Open hearth with accessories	2	0.25	0.50

4	Transfer pump for steam circulation 1.5 hp	1		0.50
5	HDPE drums for storage of raw material and finished products	100	0.01	1.00
6	Weighing balance physical	2	0.1	0.20
7	Lab. equipments			0.45
8	Errection & electrification @ 10%			1.15
		Qty		12.30

**TOATAL FIXED CAPITAL INVESTMENT = Rs. 20.0 + 15.75 +12.30
=Rs 48.05 Lacs**

(B) WORKING CAPITAL

Raw Material (P.M)

S.No	Name of the Raw Material	Qty (Kg)	Rate (Rs)Per M.T	Value (Rs) (In Lacs)
1	Oils of non edible grade	3125 kg	50/-	1.56
2	Caustic soda	500 kg	42/-	0.21
3	Rosin	250 kg	45/-	0.11
4	Creosote poi	1250 kg	45/-	0.57
5	MCP	6.25 kg	90/-	0.06
6.	Packaging labels etc			0.05
			TOTAL	2.56 Lacs

STAFF AND LABOUR (Per Month)

S.No	Designation	No.	Salary per person	Amount(Rs)
1	Manager-cum-Analytical chemist	1	8,000	8,000
2	Manufacturing Chemist	1	7,000	7,000
3	Skilled worker	1	5,000	5,000
4	Un-skilled worker	2	4,000	8,000
5	Peon-cum-chowkidar	1	3,000	3,000
6	Sales Executive	1	6,500	6,500
7.	Perquisites @ 15%			5,625
			TOTAL	43,125

OTHER EXPENSES (Per Month)

S.No	Activity	Amount (Rs)
1	Electricity	8,000
2	Water	1,000
3	Transportation	5,500
4	Telephone	500
5	Insurance	500
6	Maintenance	500
7	Bottles containers, cap 5 litres, caps and sealing materials etc	5,000
8	Misc Expenses	500
TOTAL :		21,500

TOTAL WORKING CAPITAL PER MONTH=Rs.2.56+43125+17000=3.16 LACS

Working Capital for three Month =Rs 3.16 x 3 = 9.48 lacs

Fixed capital investment =Rs. 35.75 lacs

Total Capital Investment = Rs. 35.75+9.48 = 45.23 lacs.

Cost Of Production (P.A)

S.No	Description	Amount (Rs) In lacs
1	Raw material	30.72
2	Staff & Labour	5.18
3	Other expenses	2.04
4	Total depreciation on building @ 5% & machinery & equipments @ 10%	2.57
5	Interest On total Capital Investment @ 12% P.A	5.43
TOTAL :		45.94

Turn Over by Sale of 180 MT black disinfectant fluid @ 35/- = 63.00 LACS

Net Receipt = 63.00 – 45.94 = 17.06 Lacs

Net Profit = 17.06 Lacs

Percentage Profit On Sale = $\frac{17.06 \times 100}{63.00}$ = **27%**

Percentage Profit Total Capital Inv. = $\frac{17.06 \times 100}{45.23} = 37.71$

45.23

Break Even Point

Fixed Cost-

S.No	Description	Amount (Rs) In Lacs
1	40% of Staff and labour	2.07
2	40% of Other Expenses	0.82
3	Total depreciation on building @ 5% & machinery & equipments @ 10%	2.57
4	Interest On total Capital Investment @ 12% P.A	5.43
		10.89

B.E.P = $\frac{10.89 \times 100}{10.89 + 17.06} = 1089 = 38.99\%$

10.89 + 17.06 = 27.95

Addresses of Machinery and equipment Suppliers

1	M/s Gujrat Machinery Mfg. Limited Church Gate 32-34, Veer Nariman Road, Mumbai-1
2	M/s Glass Lined Equipments Co. Limited District Kaira Umreth-388220
3	M/s A.P.V Equipments Limited Hamilton House 3, Greham Road, Ballard Estate, Mumbai-38
4	A.P.V Engg. Company Jessore Road , Kolkatta
5	M/s Busching Schmitz Pvt. Limited G-1 Ashok Bhavn 93, Nehru Place, New Delhi
6	Avery India Limited Avery House 28/2 Waterloo Street Kolkatta-730001
6.	The Machinery and equipment may also fabricate from local fabricator as per required shape size and design

Addresses Of Raw Material Suppliers/ Dealers

1	M/s Tata Chemicals Limited Mumbai8 House 24, Homomodi St Fort Mumabi-400023 Mithapur, Gujarat
2	M/s Utkal Hydrocarbon Limited Industrial Area Bhiwani Haryana
3	M/s Sargodha Trading Company Old G.T Road Committee Chowk, Karnal , Haryana
4	M/s Dujodwala Industries 14/1, Mathura Road, Faridabad, Haryana
6	M/s Sarla Chemicals Peonya Industrial Estate Bangalore
7	M/s Ram ChemicalsCo Tilak Bazar, Delhi-6
8	M/s Birbal Krishan Lal Farsh Khan Delhi -110006
9	M/s Sunbeam Industries Samual St Mumbai-3
10	Ramesh Arun & Co 461, Kharibaoli, Delhi-6

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