

CHLORINE TABLETS

I.INTRODUCTION:

The Government of India, under its technology mission program is giving priority to making available potable drinking water in all parts of the country. Majority of diseases has their root in polluted drinking water. Therefore, it is a major task to disinfect water before it is made available for drinking purposes. Chlorine tablets are extremely useful for disinfecting drinking water. Government is promoting many small scale entrepreneurs to take up manufacturing of chlorine tablets

II.MARKET POTENTIAL

There is a greater emphasis on providing potable drinking water. If the needs of rural masses for clean drinking water are to be met, many units will have to be set up in small scale sector to manufacture chlorine tablets, which is one of the best and low cost disinfectant. Government is encouraging entrepreneurs to take up this activity in big way. Therefore, many small-scale units can be started at different locations. The tablets can be sold to bulk buyers or to individuals.

III.BASIS AND PRESUMPTIONS:

The unit will work for 8 hours a day for 300 working hours. The unit will utilise 70% of the installed capacity of 8550000-tablet production per annum

IV.IMPLEMENTATION SCHEDULE:

The unit can be set up in 6 months time

V.TECHNICAL ASPECTS:

1.Process of Manufacturing +-:

The National Environmental engineering Research Institute at Nagpur has developed a simple process for manufacturing chlorine tablets. Stable bleaching powder sodium carbonate, common salt and chalk powders in proportion are mixed in sigma mixer. After allowing the mass to settle for some time, it is taken to tablet machine. Number packs the tablets in plastic containers. Finally the label giving details of batch no. date of expiry etc. Is fixed and the bottles are supplied to market. As the tablets are corrosive, adequate protection is necessary for the workers by providing hand gloves etc.

2.Quality Specification :

As per customers specification

3.Production Capacity per annum

Quantity: 5985000 tablets

Value: Rs.359100

4.Motive Power:

3 HP

VI. TOTAL CAPITAL INVESTMENTS

S.No	Description	Value Rs.
1	Fixed Capital	74000
2	Working capital for 3 months	70452
	Total cost	144452

VII.MEANS OF FINANCE

- 1.Promoter's Contribution (5% of total cost) 7222
- 2.PMRY subsidy (15% of total cost or Rs.7500,whichever is less) 7500
- 3.Bank loan[total cost-(Promoter's Contribution+ PMRY subsidy) 129730

VIII.FINANCIAL ASPECTS

1.FIXED CAPITAL

i)Land & Buildings:rented premises with a rent of Rs.1250 pm.

ii) Machinery & Equipment

S.No	Description	Quantity	Value Rs.
1	Sigma Mixer 3HP Motor 50Kg. Capacity	1	35000
2	Tableting Machine with 3 HP motor	1	30000
3	Weighing scale etc.	1	5000
4	Misc. Fixed Assets		2000
5.	Pre-operative expenses		2000
	Total		74000

2. WORKING CAPITAL

i) Staff & Labour per month

S.No	Designation	No	@ Rs.	Value Rs.
1	Manager	1	1500	1500
2	Skilled worker	1	1250	1250
3	Unskilled worker	1	1000	1000
	Total			3750

ii) Raw Material (p.m.)

S.No	Description	Quantity	Value Rs.
1	Common salt	260 kg.	520
2	Sodium carbonate	130 kg.	1300
3	Bleaching Powder	260 kg.	3744
4	Chalk Powder	640 kg.	1920
	Total		7484

iii. Utilities per month

S.No.	Description	Value Rs.
1	Power	800
2	Water	200
	Total	1000

iv. Other expenses per month

S.No	Description	Value Rs.
1	Packing Materials	5000
2	Postage, telephone, stationery etc.	500
3	Conveyance, transport etc.	4500
	Total	10000

v.Total working capital per month

S.No	Description	Value Rs.,
1	Rent	1250
2	Staff and labour	3750
3	Raw materials	7484
4	Utilities	1000
5	Other expenses.	10000
	Total	23484

IX.COST OF PRODUCTION PER ANNUM

S.No	Description	Value Rs.
1	Total working capital	281808
2	Depreciation	7200
3	Interest	26970
	Total	315978

X.TURNOVER PER YEAR

S.No	Item	Quantity	Rate Rs.	Value Rs.
1	Chlorine tablets	5985000 no.	0.06	359100
	Total			359100

XI.FIXED COST PER YEAR

S.No	Description	Value Rs.
1	Depreciation	7200
2	Interest	21668
3	Rent	15000
4	40% of salaries & wages	18000
5	40% of other expenses (utilities + OE)	52800
	Total	114668

XII.PROFIT ANALYSIS

Net Profit : sale-total cost=359100-315978=Rs.43122

% of Profit on Sale: Profit / Sale x100 =43122/359100]100=12%

% of Return on Investment: Profit / (Investment x 100=43122/144452]100=29.85%

Break-Even Analysis : FC / (FC+Profit) x100=114668/114668+43122]100= 72.7%

XIII.MACHINERY SUPPLIERS and RAW MATERIAL SUPPLIERS

Locally available