LOZENGES



INTRODUCTION:

The technology of lozenges making is based on the science and art of manipulating sugar, the principal ingredient in lozenges, particularly to achieve special textural effects. This is accomplished primarily by controlling the state of crystallization of the sugar and the sugar-moisture ratio. While the confectioner has many ingredients besides sugar to modify his confection, such as milk products, egg white, food acids, gums starches, fats emulsifier, flavours, nut, fruits, chocolate and others, all of these are secondary to sugar in determining the attributes that characterizer the major candy types and some of these ingredients are chosen especially for their influence upon the chemical and physical properties of sugar.

OBJECTIVE:

The primary objective of the model report is to facilitate the entrepreneurs in understanding the importance of setting up unit of Lozenges Plant. This model report will serve as guidance to the entrepreneurs on starting up such a new project and basic technical knowledge for setting up such a facility.

RAW MATERIAL AVAILABILITY:

The main raw materials for these products are sugar, flavours and colours.

SUITABLE LOCATION:

Lozenges can be manufactured at any location.

MARKET OPPORTUNITIES:

Logenges, a unique mouth freshener with a specific flavour is a part of the Rs 100-crore Parle brand umbrella, which is ranked among Parle top performing Ten products, is being extended to new variants. There are so many flavours available in the market i.e. orange , pineapple, mango ,mint, pan, strawberry, grapes etc. and are having good demand among the children. Similar to the existing variants, the new flavours are also being made available in pillow packs priced at 50 paisa a unit. In addition, the lozenges are also being retailed in jars of 250 and 500 units each, besides refill packs. The roll out of the new flavours has been initiated in a few select markets, and will be extended nationally.

PROJECT DESCRIPTION:

CAPACITY OF THE PROJECT:

• The capacity of the project is 36 MT of Lozenges per year.

PRODUCTION TARGET:

- Qty.: 25.20 MT/Annum or 3 MT/Month.
- The scheme is worked out per shift (8 Hour) basis and 300 working days per annum.
- Assume there'll be 70% production in first year.

MANUFACTURING PROCESS:

The Process involve the cooking of Sugar in the stainless steel steam jacketed cooing pan then cooling of syrup on cooling table. after that add all ingredient in the vacuum batch cooker including color and flavor etc. then mixture subject to batch roller then three stage rope sizer then subject to sweet forming machine then subject to three way cooling conveyor then in the end candy wrapping machine to pack the Sugar candy.

PROJECT COMPONENT AND COST:

FINANCIAL ASPECTS:-

APPLICATION OF FUNDS

SOURCE OF FUND

Particular	Amount
Land Building Plant & Machinery Office Equipment & Furniture Working Capital Pre-Operative Expenses	200 sq. meter covered area on rent 2,167,000.00 50,000.00 610,654.36 25,000.00
Total	2,852,654.36

Particulars	Amount
Loan from Banks Loan for Working Capital	1,662,750.00 256,540.77
Total	2,852,654.36

FIXED ASSETS

(1)	Land And Building:			Value (Rs.)
	Land & Building 200 sq. meter covered area on rent			96,000 per annum
(2)	Machinery And Equipment:			
S. N.	Description (Name of machine with specification)	Qty.	Rate	Value (Rs.)
	Production Unit			
i	Vacuum Batch Cooker	1	250,000.00	250,000.00
ii	Sugar Batch Kneader	1	270,000.00	270,000.00
iii	Candy Forming 12" Plast-O Plast Machine with Batch Former	1	380,000.00	380,000.00
iv	Die 12" POP Machine with Brass Punches	1	410,000.00	410,000.00
V	Candy Wrapping Machine: Double Twist	1	350,000.00	350,000.00
vi	Heater Cum Blower for Candy Wrapping	1	25,000.00	25,000.00
vii	Working Table with SS Top	2	35,000.00	70,000.00
viii	Weighing Balance Platform Type	1	25,000.00	25,000.00
ix	Misc Equipments	-	-	40,000.00

	Total Cost of Machinery & Equipments		1,820,000.00
	Electrification & Installation Charges @ 10%		182,000.00
	Total Cost of Production Unit		2,002,000.00
	Furniture & Fixtures	-	50,000.00
3	Pre-Operative Expenses:	-	25,000.00
	Total Fixed Capital (2+3)	-	2,027,000.00

RAW MATERIAL REQUIREMENT & STOCK

Particulars	Mode	Year' 1
Capacity Utilisation		70%
Daily Production at 100% capacity	200.00	
No of Working days per annum	300	
Annual Production	Kg	42,000.00
Wastage	%	2.00
Net Production	Kg	41,160.00
Gross Consumption		
Sugar	Kg	41,160.00
Other materials like Chemicals, Flavours, Colors etc.		-
Rate (Per Kg)		
Sugar	Rs	33.00
Other materials like Chemicals, Flavours, Colors etc.	-	-
Annual Consumption		
Sugar	Rs	1,358,280.00
Other materials like Chemicals, Flavours, Colors etc.	Rs	36,000.00
Total		1,394,280.00
Stock of Raw Material	30 days	114,598.36
Stock of Raw Material	30 days	114,390.30
Stock of WIP	02 days	7,442.63
Purchase Cost of Raw Material	Rs	1,516,320.99

WORKING CAPITAL REQUIREMENT

Particulars	Days	Year' 1
Raw Material	30	114,598.36
Work in Process	2	7,442.63

Finished Goods	10	71,285.95
Receivables	30	343,000.00
Advance/Security		200,000.00
Total		736,326.94
Less: Creditors	30	126,360.08
Net Current Assets		609,966.86
Paid Stock 75% of Paid Stock 60% of Book Debts Bank Limits		66,966.86 50,225.14 205,800.00 256,025.14
Margin for Working Capital		353,941.71

SELLING & ADMINISTRATION EXPENSES

Particular Year I i Postage 18,000.00 Commission on ii 60,000.00 sales iii Office Expenses 29,000.00 iv Tour & Travel 18,000.00 Printing & 20,000.00 V Stationary Advertisement vi 52,000.00 vii Telephone 20,000.00 Repair & 22,000.00 viii Maintenance ix Conveyance 27,000.00 X Sales expenses 34,000.00 χi Insurance 20,000.00 Misc. Expenses 30,000.00 χij Total 350,000.00

STAFF AND LABOUR EXPENSES

S. N.	Description	No.	Salary PM	Total Salaries- Year I
(a)	Administrative & Su	pervis	sory	
i	Production Incharge cum accountant	1	15,000.00	180,000.00
	Total Salaries			180,000.00
(b)	Skilled & Unskilled-	Wages	5	
i	Skilled Worker	1	10,000.00	120,000.00
ii	Semi Skilled Worker	1	8,000.00	96,000.00
iii	Helper	2	5,000.00	120,000.00
	Total			336,000.00
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	Grand Total			516,000.00

MANUFACTURING AND PROFIT & LOSS ACCOUNT

ACCOUNT	
Particulars	Year' 1
Sales Value @ Rs 100 per Kg	4,116,000.00
Cost of Production:	
Raw Material Cosnsumed: Opening Stock	_
Add: Purchases	1,516,320.99
	1,516,320.99
Less: Closing Stock	114,598.36
Raw Material Consumption	1,401,722.63
Add: Op Stock of WIP	-
	1,401,722.63
Less: Cl Stock of WIP	7,442.63
	1,394,280.00
Power & Fuel	300,000.00
Manufacturing Wages	336,000.00
Bonus & Incentives	16,800.00
Packaging Materials	100,000.00
Rent Raw material storage & ins.	96,000.00
Cost	4,800.00
Carriage inward	10,614.25
Depreciation	307,800.00
Total Cost of Production	2,566,294.25
Add: Op. Stock of Finish. Goods	2 566 204 25
	2,566,294.25
Less: Cls. Stock of F.Goods	71,285.95
Cost of Sales	2,495,008.30
Gross Profit	1,620,991.70
	0.39
Selling & Admin Cost:	
Expenses	350,000.00
Salary	180,000.00
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Financial Expenses	
Interest on Term Loan	209,688.75
Interest on W.Capital	32,003.14
Pre. Expenses	5,000.00
Profit Before Taxation	844,299.81
Taxation	253,289.94
Net Profit After Taxation	591,009.87
Cash withdrawal	236,403.95
Transfer to Reserves	354,605.92
Cumulative Reserves % of PBT on Sales	354,605.92 20.51
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BALANCE SHEET

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Particulars	Year' 1
Liabilities: Capital	891,941.71
Reserve & Surplus	354,605.92
Secured Loan: Term Loan	1,231,200.00
Unsecured loan:	
Current Liabilities: Bank Borrowings Sundry Creditors	256,025.14 126,360.08 2,860,132.86
Assets: Fixed Assets: Gross Block:	2,052,000.00
Less: Depreciation	307,800.00
Current Assets:	1,744,200.00
Inventories Recievables Advance/Security Cash & Bank Balance	193,326.94 343,000.00 200,000.00 359,605.92
Preliminary Expenses	20,000.00
	2,860,132.86
Difference	0.00

RATIO ANALYSIS

Particulars	Year' 1
NET PROFIT RATIO	
NP*100/Total sales	14.36
RATE OF RETURN	
NP*100/Total Investment	22.00

BREAK EVEN ANALYSIS

Fixed Cost	
Rent	96,000.00
Interest on Borrowing	209,688.75
40% of Salaries	72,000.00
40% of Utilities	120,000.00
25% of Admin Exp	87,500.00
Depreciation	307,800.00
Total	892,988.75
Total	892,988.75
Total BREAK EVEN POINT	892,988.75 Fixed Cost * 100

ADDRFESS OF MACHINERY & EQUIPMENT SUPPLIERS:

- M/s Bajaj Processpack Maschinen Pvt. Ltd., 7/27, Jai Lakshmi Industrial Estate, Sahibabad Industrial Area, Sahibabad, Dist. Ghaziabad (U.P.) 201301.
- M/s Kanchan Metals Pvt Ltd., 19G, Everest House, 46C, Jawaharlal Nehru Road, Kolkata (West Bengal) 700 071.
- M/s Jayems Engineering Works, Strand Road, Kolkata 700 001
- M/s Ambica Engineering Works, Bhagyoday Estate Chakudiya Mahadev Road, Rakhial, Ahmedabad-380023, Gujarat
- M/s KSJ Foods & Services Pvt. Ltd., 7/87, Vishnu Prasad, Mahanti Road, Vile Parle (E), Mumbai 400057.
- M/s Econo Mode Food Equipment (India) Private Limited, B 6, 5 Acre, Kothari Compound, Tikuji Ni Wadi Road, Thane 400607, Maharashtra.