



SUGAR GLOBULES

PRODUCT CODE : 21001 (NIC Code)

QUALITY STANDARDS : As per FSSAI and IP

PRODUCTION CAPACITY : Qty.: 200 Quintals and
Value : Rs.110 lakhs

MONTH AND YEAR
OF PREPARATION : February, 2021

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1. INTRODUCTION

As Medical Science Progress is increasing day-by-day likewise the side effect of allopathic medicines are also being seen in the world. Looking to the adverse effect of allopathic medicines population is moving towards the Ayurvedic and Homeopathic Medicines because it is well known that adverse effect of homeopathic and Ayurvedic medicines are quite low. Therefore, demand of homeopathic medicines is increasing day-by-day and demand of sugar globules is also increasing because Homeopathic medicines can only be taken with sugar globules or water due to sweet nature and easy solubility in mouth. Sugar globules are mainly being used by homeopathic doctors. Hence we can say that industry of Sugar Globules have bright future. In manufacturing of sugar globules basic raw material is sugar which is easily available in each and every part of country. Besides this sugar globules have good absorption power than other globules and easily absorb the homeopathic drug without any change in composition and property.

2. MARKET POTENTIAL

Basic consumption of sugar globules is in homeopathy, because drug used in homeopathy is either to be taken with sugar globules or water. Therefore, due to sweet taste these globules are being used by doctors or physicians of homeopathy. Basic difference between manufacturing cost and selling price is very high, hence it can be sold to wholesalers only.

3. BASIS & PRESUMPTIONS

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

1. No. of working shifts in a day : 1
2. Duration of shift in term of time : 8 Hrs
3. No. of working days in a year : 300
4. Working efficiency of the unit : 75%
5. Interest on Capital Investment : 12% p.a.
6. Construction of building (built up area will be in accordance with the provision of laid down by LSG.

7. The estimates are drawn from a production capacity generally considered techno-economically viable for a modern type of manufacturing unit
8. The wages of the Staff and Labour is taken as per the prevailing Labour Wages Laws.
9. The entire expenditure will be borne by entrepreneur.
10. The rate of interest has been shown as applicable.
11. Plant and Machinery, Testing equipment and all other equipments used in manufacturing.
12. Although the unit is free from pollution and effluent discharge but still provision of exhaust fan may ensure the fresh environment.

4. IMPLEMENTATION SCHEDULE

1. Preparation of Project Profile	0.5 months
2. Licenses and Registration	1 month
3. Financial Assistance from Institutions	1 month
4. Building construction/Power connection	0.5 months
5. Machinery Procurement and Installation	2 months
6. Recruitment of staff and labour	0.5 months
7. Actual Commercial Production	0.5 months
Total	6 Months

5. TECHNICAL ASPECTS

5.1. Process of Manufacturing

Manufacturing process of sugar globules may be shown as follows:

1. Grinding of sugar
2. Formation of Globules
3. Drying
4. Coating

1. Grinding of Sugar

In this process sugar grinds with grinder to fine mesh and further filters through sieve, so that any unwanted material may be sorted out easily.

2. Formation of Globules

In this process sugar generally mixes with water and paste is formed. Granules of sugar are prepared when this paste is rubbed on the surface on sieve.

3. Drying

These granules are dried in tray drier to remove/eliminate moisture of the product.

4. Coating

In this process dried sugar globules kept in coating machine having arrangements of spray drier may be coated to desired size with sugar solution. Quality of the product should be translucent or opaque in nature

5.2. Pollution Control

There is no pollution, however, unit has to obtain NOC from Pollution Control Authorities.

5.3. Energy Conservation

Electricity may be conserved as follows:

1. Use of high efficiency motors.
2. Downsizing the motor.
3. Use of soft starter-cum-energy saver
4. Use of variable speed drivers.
5. Use of automatic voltage regulators.
6. Avoid use of Re-wounded motors.
7. Avoid idle running of motors.

6. FINANCIAL ASPECTS

6.1. FIXED CAPITAL

6.1.1. Land & Building

Land 250 Sq. mtr. @ Rs.1,000 per Sq.mtr Rs.2.5 lakh

Building - Covered area 200 Sq.mtr. having the construction of manufacturing shed, store of raw material, finished products room and office.
Construction value @ 3000 per Sq.mtr Rs.6.0 lakh

Total value of Land and Building Rs.8.5 lakh

6.1.2 Plant and Machinery

Description	Rate (Rs.)	Nos.	Amount (in Rs.)
Grinder with motor of 5 HP for grinding of sugar	1,00,000	1 No.	1,00,000
Tray drier capacity of 96 trays, electrically heated, complete with fan, heating coil, digital temperature controller and indicator have arrangement of circulating air	40,000	1 No.	40,000
Sieves of different mesh	4000	5 Nos.	20,000
Tableting machine with motors and punches	85,000	1 No.	85,000
Coating pan made of SS with arrangement of heater and air blowing	1,00,000	1 No.	1,00,000
Degrader having arrangement of 15 Nos. sieves for various mesh and 5 HP motor capacity 100hg per hour (can be locally for serviceable)	1,40,000	1 No.	1,40,000
Physical weighing balance	25,000	1 No.	25,000
Lab equipments, glassware, plastic ware and other equipments like sealing machine etc.	15,000	1 No.	15,000
Total			5,25,000
Say			5.25 lakhs

Erection and Electrification 10%	Rs. 52,500
Furniture, Almirah and PC	Rs.1,00,000
Pre-operative Expenses	Rs.20,000

Total Fixed Capital requirement Rs. 15.48 lakhs

6.2. Working Capital (per month)

6.2.1. Raw material

Description	quantity	Rate	Total (Rs.)
Sugar	200 Quintals	2,500	5.00 lakh
Polythene bag for packing			0.60 lakh
Additives used for brightness and colour			1.00 lakh
Total			6.60 lakh

6.2.2. Personnel

Description	Nos.	Salary/Month (Rs.)	Total (Rs.)
Manager-cum-Chemist	1	20,000	20,000
Skilled Workers	2	8,000	16,000
Unskilled Workers	4	5,000	20,000
Sales Representatives	1	5,000	5,000
Peon-cum-Chowkidar	1	5,000	5,000
Total			Rs. 66,000

6.2.3. Utilities & Other Expenses

Electricity	:	Rs. 10,000
Water	:	Rs. 4,000
Transportation	:	Rs. 7,500
Repairing & Maintenance	:	Rs. 3,000
Insurance	:	Rs. 2,000
Advertisement & Publicity	:	Rs. 1,500
Postage & Stationery	:	Rs. 500
Miscellaneous	:	Rs. 1,000

Total : Rs.29,500

6.2.4. Total Recurring Expenses (per month) : Rs.7.55 lakhs

6.3. Total Capital Investment

Working Capital (for 3 months) : Rs. 22.65 lakhs
(Rs.7.55 x 3)
Fixed Capital Investment : Rs. 15.48 lakhs
Total : Rs. 38.13 lakhs

7. FINANCIAL ANALYSIS

7.1. Cost of Production per annum

Sl.No.	Description	Amount (Rs.)
1.	Recurring Expenses	90.60 lakhs
2.	Depreciation on Plant & Machinery @10%	0.52 lakhs
3.	Depreciation on building @5%	0.30 lakhs
4.	Depreciation on Furniture @20%	0.20 lakhs
5.	Interest on total capital Investment @ 12%	4.57 lakhs
Total		Rs. 96.19 lakhs

7.2. Turnover per annum

Sl.No.	Item	Qty. (Quintals)	Rate (Rs./Quintals)	Value (Rs.)
1.	Sugar Globules	200	0.55 lakhs	110.00 lakhs

7.3. Profit (per annum)

= Turnover - Cost of Production
= 110.00 lakhs - 96.19 lakhs
= **Rs.13.81 lakhs**

7.4. Net Profit Ration

= $\frac{\text{Net Profit per year}}{\text{Turnover per year}} \times 100$

$$= \frac{13.81}{110.00} \times 100$$

$$= 12.55\%$$

7.5. Rate of Return

$$= \frac{\text{Profit} \times 100}{\text{Total Capital Investment}}$$

$$= \frac{13.81 \times 100}{38.13}$$

$$= 36.21\%$$

7.6. Break-even Point

Annual Fixed Cost	Total (Rs. In lakhs)
40% Salaries	3.16
40% other Expenses	1.41
Total Depreciation	1.02
Interest on Total Capital Investment	4.57
Total	10.16

Break-even Point

$$= \frac{\text{Annual Fixed Cost} \times 100}{\text{Annual fixed cost} + \text{Profit}}$$

$$= \frac{10.16 \times 100}{10.16 + 13.81}$$

$$= 42.38 \%$$

Addresses of Machinery and Equipment Suppliers

1. **M/s. Pioneer Engineering Co.**
57, Mumbai Samachar Marg,
Mumbai- 400001

2. **M/s. Pharma Each**
10, Chaulpatty Road,
(Belighata)
Kolkata - 700010

3. **M/s. Railas Machine Tools**
12, Harshad Estate,
Namtanagar, Pm. Virat Ptagar,
Char Rasta, Rakhial (Bapu Nagar
Ahmedabad - 580024

4. **M/s. Amba Engineers.**
6, Laxmi Indl. Estate,
Navneet Prakashan Compound
Rakhial, Ahmedabad - 580025

5. **M/s. Ambica Machine Tools,**
Plot No.1, Phase 11,G I DC, Vatva,
Ahmedabad - 580043

6. **M/s. Cip Machines Pvt. Ltd,**
10-11, Umiya Estate,
Nr. Bharat Party Plot,
N.H. Road - 8, Amrawadi,
Ahmedabad - 580026

7. **M/s. Darshan Chaudhry**
Prashant Press,Gulabi Bagh
New Delhi

Raw Material suppliers

Local Market