

# PROJECT REPORT

Of

# BESAN PLANT

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Besan making Unit**.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



**Lucknow Office:** Sidhivinayak Building ,  
27/1/B, Gokhley Marg, Lucknow-226001

**Delhi Office :** Multi Disciplinary Training  
Centre, Gandhi Darshan Rajghat,  
New Delhi 110002

Email : [info@udyami.org.in](mailto:info@udyami.org.in)  
Contact : +91 7526000333, 444, 555

# **BESAN PLANT**

## **1. INTRODUCTION**

Bengal gram is called Chickpea or Gram. Bengal gram is a major pulse crop in India, widely grown for centuries and accounts for nearly 40 percent of the total pulse production.

## **2. PRODUCTS AND ITS APPLICATION:**

BESAN is a product obtained by grinding, dried and decuticled Bengal Gram. Besan is a bengal gram flour widely consumed in India. It is yellowish in colour and possess characteristic bengal gram taste and smell. Khesaru dal and other colouring matter shall not be added to true besan flour.

## **3. INDUSTRY OUTLOOK/TREND**

Indian snacks and namkeen industry is growing at the rate of 10% per annum with increase in urbanization, changing life style and growth in per capita income. Besan is rich in nutrition and it is very common in Indian food preparations. The growth in demand is also due to increase in population and rising exports of products made from besan.

## **4. MARKET POTENTIAL AND MARKETING ISSUES, IF ANY:**

India is the major growing country of the world, accounting for 61.65 percent of the total world area under Bengal gram and 68.13 percent of the total world production. Bengal gram is widely appreciated as health food. It is a protein-rich supplement to cereal-based diets, especially to the poor in developing countries, where people are vegetarians or cannot afford animal protein. The pulse proteins are rich in lysine and have low sulfur containing amino

acids. It offers the most practical means of eradicating protein malnutrition among vegetarian children and nursing mothers. Bengal gram has a very important role in human diet in our country.

India has exported about 12,000 tons of besan worth Rs. 7800 lakhs in year 2015-16 (APEDA) mainly to USA, UK, Australia, Kuwait, Canada, New Zealand, UAE, Singapore, Saudi Arabia, Oman and other countries.

## **5. MANUFACTURING PROCESS:**

Whole bengal gram delivered at the site are first physically cleaned and separated from stone, dust, dirt and other foreign material. Cleaned material is conveyed into soaking-cum-drying bins where it is conditioned with little water and dried by blowing air to loosen its outer skin for separation. This process take about four hours' time. It is then subjected for spilling outer skin (husk) in a dal mill. The spilt dal is again moisturized and conditioned for four hours. It is then subjected to final milling to extract maximum percentage of flour the final milling is carried out in emery roller machines. Thus obtained flour is further pass through battery of sieving machines to obtained super fine grade and fine grade material. The husk separated is collected from other chutes, whereas other sieved coarse material again feed-back for milling into roller machine. Finally, besan is packed directly in gunny bags, poly-line gunny bags for bulk selling and in laminated pouches or poly-bags for retail selling.

## **6. MANPOWER REQUIREMENT:**

### **Requirement of Manpower**

<b>Manpower Total Requirements</b>	<b>Persons</b>
Technical Staff	2
Marketing Staff	1
Labour	3
Total	7

## Besan Plant

### **COST OF PROJECT**

S.NO.	PARTICULARS	TOTAL COST	MARGIN 25%	LOAN
1	Land & Building		0.00	own or Rented
2	Plant and Machinery	5.00	1.25	3.75
3	Furniture & Fixture	0.40	0.10	0.30
4	Contingencies	0.50	0.13	0.38
5	Pre and Post operative and	0.20	1.00	0.00
6	Margin for Working Capital	28.95	7.32	21.63
	Total	<b>35.05</b>	9.79	26.05

### **MEANS OF FINANCE**

S.NO.	PARTICULARS	AMOUNT
1	Own Contribution	8.99
2	Term Loan	4.43
3	Working capital	21.63
	Total	<b>35.05</b>

DE Ratio                      2.90

### **PRODUCTION CAPACITY(Per annum)**

Working Days : 300 days

S.NO.	PARTICULARS	Production/year	Weight/unit(gms)	Quantity(Tonnes)
1	Besan Plant			270.00
	At 100% Capacity			
	Total			270.00

### **TOTAL CAPITAL INVESTMENT**

Rs.

1	Total Fixed Capital	6.10
2	Working Capital for 3 Months	28.95
	Total	35.05

FIXED CAPITAL

**(i) Land and building** **Amount(In Rs.)**

1000 sq Ft area Rented  
 constructed area 500 sq mt \_\_\_\_\_

(Factory shed, godown, office)

**(ii) Machinery and Equipment**

S.no.	Description	Qty. nos.	Price/unit	Amount(In Rs.)
1	Jas Enterprises TW-IP-20 8 Hammer20HP Pulviliser 200-250 Kg per Hour	1	3,00,000.00 plus GST	354,000.00
2	Packaging Machine	LS		146,000.00
3				
4				
5				
6				
7				
8				
9				

Total 500,000.00

-

Total *In Lac* \_\_\_\_\_  
5.00

Pre and Post Operative Exenses 0.20  
 Furniture and Fixture/ Office Equipment 0.40  
 Contingencies 0.50

**Total Fixed Capital** \_\_\_\_\_  
**6.10**

TOTAL WORKING CAPITAL - 1.50 MONTHS				Rs.
1	Salary and Wages			738,000.00
2	Raw Material			21,316,000.00
3	Utilities			265,656.00
4	Other selling and administrative Expenses			836,600.00
	Total			231.56
	Working Capital for 1.50 months	Rs in Lakhs		28.95

B. WORKING CAPITAL

(i) Staff and Labour

S.No.	Designation	No.	Salary(Rs.)	Total(In. Rs.)
1	Skilled Workers	2	10,000.00	20,000.00
2	Semi-skilled Workers	3	6,000.00	18,000.00
3	Helpers	0	-	-
4	Supervisor	0	12,500.00	-
5	Food Technologist	0	15,000.00	15,000.00
6	Salesman	1	12,000.00	12,000.00
7	Accountant	1	11,000.00	11,000.00
		7		76,000.00
	<b>Total Annual Salary</b>			<b>912,000.00</b>

(ii) Raw Materials

No of Days 300  
Installed capacity 480 tonnes  
Cap Utilisation 100%

S.No.	Particulars	Rate(Rs)	Quantity(Tonne)	Total(In. Rs.)
1	Bengal gram	44,000.00	480.00	21,120,000.00
2	Packaging and Printing Material	1Kg Pouches		196,000.00
		@		
	<b>Total</b>			<b>21,316,000.00</b>

(iii) Utilities

CALCULATION OF POWER EXPENSE			
Total Power Load Required		20	HP
No of Days		300	
No of Hours		8	
Total Power Expense		35808	KWH
(i) Power Supply from UPPCL	100%	35808	
<b>COST OF POWER</b>			
(I) Cost of power from UPPCL		250,656.00	
( @7/- per Unit)			
Add : Fixed Cost		15,000.00	
Add : Lubricants		-	
<b>Total Annual Power Expense</b>		<b>265,656.00</b>	

(iv) Other Expenses

S.No.	Particulars	Amount(In.Rs)
1	Rent	360000.00
2	Repair and Maintenance	15000.00
3	Postage and Stationery	5000.00
4	Telephone Charges	20000.00
5	Transportation and Freight	72000.00
6	Insurance	15000.00
7	Sales Expenses	1% of Sales
		249600.00
8	Other Manufacturing Expenses	25000.00
9	Miscellaneous Expenses	75000.00
	Total	836600.00

## FINANCIAL ANALYSIS

### (i) Cost of Production

S.No.	Particulars				In. Rs.
1	Total Recurring Expenditure				231.56
2	Depreciation on Plant and Machinery @ 15%				0.75
3	Depreciation of Furniture/Fixture & Office Equipment @ 10 %				0.04
4	Finance Cost				3.13
	<b>TOTAL COST OF PRODUCTION</b>			(in Lacs)	<b>235.48</b>

### (ii) Turnover (per annum)

S.No.	Particulars	Qty)	Qty(Nos.)MT	Rate (in Rs)	In. Rs.
1	Besan		384	65,000.00	24,960,000.00
	Remaining 96 MT(20%) will be husk and other process losses including moisture, dust removal etc				
	<b>TOTAL TURNOVER</b>				<b>24,960,000.00</b>
			Or Say	(In Lacs)	249.60

<b>(ii) Profit [ii-i]</b>	(In Lacs)	<b>14.12</b>
At 100% capacity utilisation		
Percentage profit on sales		<b>5.66%</b>

## **RATIOS :**

i) **Rate of Return on Total Capital Investment**

= Net Operating Profit/ Invested Capital

= 40%

ii) **Return on Assets**

= Sales/Average total Assets

= 2.31

iii) **Return on Equity**

= Sales/ Stockholder's Equity

= 1.57

iv) **Debt to Equity Ratio**

= Total Term Liabilities/Total Shareholder's Equity

= 0.49

v) **Interest Coverage Ratio**

= Earning before Interest & Tax/ Interest Expense

= 5.52



## **DISCLAIMER**

The views expressed in this Project Report are advisory in nature. SAMADHAN assume no financial liability to anyone using the content for any purpose. All the materials and content contained in Project report is for educational purpose and reflect the views of the industry which are drawn from various research material sources from internet, experts, suppliers and various other sources. The actual cost of the project or industry will have to be taken on case to case basis considering specific requirement of the project, capacity and type of plant and other specific factors/cost directly related to the implementation of project. It is intended for general guidance only and must not be considered a substitute for a competent legal advice provided by a licensed industry professional. SAMADHAN hereby disclaims any and all liability to any party for any direct, indirect, implied, punitive, special, incidental or other consequential damages arising directly or indirectly from any use of the Project Report Content, which is provided as is, and without warranties.