



एमएसएमई-विकास संस्थान
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार
22 गोदाम औद्योगिक सम्पदा, जयपुर,
राजस्थान-302006

परियोजना रिपोर्ट

गेंहूँ आटा प्लांट

WHOLE WHEAT ATTA

PROJECT PROFILE ON WHOLE WHEAT ATTA

Product : Whole Wheat Atta

NIC Code : 10611

Quality Standard : The Product may be manufactured as per AGMARK specification. The BIS have also laid down Specification for the products:

IS: 1155-1968 (Wheat Atta)

Production capacity (P.A.)	Item	Qty. (MT)	Value (Rs.)
	Atta	2850 MT	6,27,00,000/-
	Bran	150 MT	18,00,000/-
	TOTAL		6,28,80,000/-

Month & Year of Preparation : July,2020

Prepared By : MSME-DI, Jaipur

Whole Wheat Flour (Atta Mill)

A. Introduction:

Wheat flour, also known as Atta in Hindi, is widely used product of daily basis in every household. For making chapattis, bread, roti, naan, puri wheat flour is basic and essential raw material. Most atta is milled from the semi-hard wheat varieties, also known as durum wheat that comprises 90% of the Indian wheat crop, and is more precisely Durum Atta. Wheat flour or Atta is the predominantly used in food items in India, such as chapatti, roti, naan and puri and in seat items too like halwa, etc. This is the basic and most essential product for daily consumption in every home in India.

B. Market Potential:

Wheat is the most widely produced cereal all over the world, used for human consumption; Contribution of wheat to energy intake is significant. Global wheat flour market is majorly driven by rising consumption of bakery products fueled by combined influence of growing population, change in tastes of consumer and rise in disposable income of consumers worldwide.

In last few years, there has been a rising demand for wheat flour due to changing taste of consumers. Companies are launching new products, investing in expansion, and forming alliance to increase their market share.

Whole wheat flour is used in making Chapaties, Puries, Parotha and other roasted cereal based products, Sooji/Rava is used in many sweatmeat products. Wheat flour or maida is a basic raw material for making Bread, Biscuits Cakes and other bakery products. Bran separated on milling is used as attle feed. The products sold under brand names are very few. The concept for branded cereal flour products is now increasing.

C. Basis and presumptions:-

1. It is presumed that the unit will run in three shifts per day and 300 working day in a year.
2. The following extract rates are presumed:
 - (i) Atta : 95%
 - (ii) Bran : 05%
3. Labour wages have been taken as per market rates.
4. Different varieties of wheat may be blended for producing desired end product.
5. Rate of Installation has been taken 15.5% on an average of both fixed & working capital.
6. The rates quoted in respect of Machinery/equipment raw materials are those prevailing at the time of preparation of report and are likely to vary from place and supplier and necessary are to be made, accordingly.

D. Implementation schedule:

- | | |
|-----------------------------------|------------|
| (i) Selection of site: | 01 Month |
| (II) UAM Registration: | One day |
| (iii) Project report preparation: | 15 Days |
| (iv) Availability of funds: | 2-3 Months |
| (v) Machinery procurement | 6 Months |

Erection and Commissioning
(vi) Trail run: 12th Months

E. Technical Aspects:

1. Manufacturing Process:

Firstly, wheat is thoroughly cleaned such that all dust particles, Stones and other foreign matters will be removed. Clean wheat will be tampered before grinding by treating with water so that the bran is separated from the endosperm. The tampered wheat is crushed between corrugated rollers (Break rolls). The first break rolls are set relatively far apart to grind the wheat lightly, while successive break yield finer products. The first break is separated by sieving or bolting in to very fine particles (flour), intermediate particles (middling) and coarse particle (stock). The stock is then sent to second break rolls. This process may continue through 5 to 6 breaks. The stock contains pieces of endosperm and bran and the stock from the last break is principally bran. The middling contains endosperm and bran and germ which are then successively classified and some of the bran removed is sent to reduction rollers. These are smooth rollers, but like the break rolls they are graduated so that successive reduction becomes finer and finer. After each reduction, sifter separate the flour, middling and stock, this process is continued until most of the endosperm has been removed as flour and most of the bran has been separated in the sifters.

2. Power required: 40KW

F. Financial Aspects:

1. Land & Building:

(A) Land : 1500 Sq Mtr. @ Rs. 2000/- Per SQM = Rs. 30,00,000/-
 (B) Building : Build Up area = 1000 Sqm
 Including Godown/Plant/Laboratory/offie = RS. 30,00,000/-

Rs. 60,00,000/-

2. Machine & Equipments:

Sr. No.	Description	Nos.	Price (Rs.)
Cleaning Section			
1.	Intake Table		10000
2.	Elevator Suitable for 4" bucket	1	52000
3.	Grain Cleaner	1	160000
4.	De stoner with blower	1	174000
5.	Elevator Suitable for 4" bucket	1	56000
Grinding and sifting section			
6.	750 mm horizontal mill	1	325500
7.	Digital controller	1	295000
8.	Pneumatic System with pipe and band	1	43300
9.	Airlock with accessory and geared motor	2	28500
10.	HP FAN	1	55000
11.	Filter with bottom discharge	1	65000

12	Vibro sifter	1	195000
13	Packing point manual Atta with weigh scale	2	40000
14	Aspiration Trunk with ducting Line	1	10000
15	Down grade required	1	10000

Total	=	12,33,800/-
GST etc %	=	61,690/-

		12,95,490/-
Equal to=		13,00,000/-
Electricity and installation charge =		2,60,000/-

		15,60,000/-

3. Working capital per month

(i) Personnel

Sr. No.	Particulars	NO.	Salary	Total (Rs.)
1.	Plant Foreman	1	15000	15000
2.	Operator	3	12000	36000
3.	Un skilled worker	3	10000	30000
4.	Accountant	1	15000	15000
5.	Peon	1	10000	10000
Total				1,06,000/-
Add Pre-requisites @ 15 % of Salary				15,900/-
Grand Total				1,21,900/-

(ii) Raw Matirial (Per Month)

Sr. No.	Particulars	Value (Rs.)
1.	Wheat Blended of Different category 250 MT @ Rs. 16000/- Per MT	40,00,000/-
2.	Woven sacks 5000 Nos. @ Rs. 20 /- Each	1,00,000/-
	Total	41,00,000/-

(iii) Utilities: (Per Month)

Sr.	Particulars	Amount (Rs.)
1.	Power	90,000/-
2.	Water	10,000/-
	TOTAL	1,00,000/-

(iv) Other Contingent Expenses (Per Month):

Sr.	Particulars	Amount (Rs.)
1	Telephone charges & Internet	2,000/-
2	Consumable stores	5,000/-
3	Repair & Maintenance	5,000/-
4	Other Misc. Expenses	5,000/-
	TOTAL	17,000/-

(v) Working Capital Per Month = 43,38,900/-

(vi) Working Capital for Two Months = 86,77,804/-

5. Total Capital Investments

(i) Fixed Capital = 76,60,000/-

(ii) Working capital for two months = 86,77,804/-

Rs. 1,63,37,804/-

(G) Financial Analysis:

1. Cost of Production (Per year):

1. Total Recurring cost per year = 5,20,66,824/-

2. Depreciation on building @ 5 % per annum = 1,50,000/-

3. Depreciation on machinery @ 10 % Per annum= 1,56,000/-

4. Depreciation on furniture and other fixed assets= 20,000/-

5. Interest on total investment @ 11% per annum= 17,97,158/-

Total Rs. 5,41,89,982/-

2. Turn Over:

By sale

(i) Atta 2850 MT @Rs. 20,000/MT = 5,70,00,000/-

(ii) Bran 150MT @RS. 12,000/- MT = 18,00,000/-

5,88,00,000/-

3. Net Profit per annum:

$$\begin{aligned} \text{Profit} &= \text{Sales} - \text{Cost of production} \\ &= 5,88,00,000 - 5,41,89,982 \\ &= \mathbf{46,10,018/-} \end{aligned}$$

4. Net Profit ratio = $\frac{\text{Profit} \times 100}{\text{Turnover per year}}$
 $= \frac{46,10,018 \times 100}{5,88,00,000} = 7.84\%$

5. Rates and Returns = $\frac{\text{Net Profit} \times 100}{\text{Total Investment}}$
 $= \frac{46,10,018 \times 100}{1,63,37,804}$
 $= 28.21\%$

6. Break Even Point

(Fixed cost (Per Year))

1. Depreciation on Machinery @ 10 % p.a.	=	1,56,000/-
2. Depreciation on furniture & other fixed assets	=	20,000/-
3. Depreciation on building	=	1,50,000/-
4. Interest on total investment	=	17,97,158/-
5. 40 % of salary & wages	=	5,85,120/-
6. 40 % of other expanses	=	81,600/-
7. 40 % of utilities	=	4,80,000/-
		<hr/>
	Total	32,69,878/-

BEP = $\frac{\text{Fixed cost} \times 100}{\text{Fixed cost} + \text{Profit}}$
 $= \frac{32,69,878 \times 100}{32,69,878 + 46,10,018}$
 $= 41.49\%$

Machinery Suppliers:

1. Shri Vishwakarma (Emery Stones) Industries Pvt. Ltd.
Vishwakarma Nagar, P O - Saradhana Ajmer PIN - 305206, Ajmer, Rajasthan 305206
2. Fry-Tech Food Equipments Pvt. Ltd,
S.NO. 4, Raviraj Industrial estate, Bhikhubhai Mukhi Ka kua, , Bharwadwash,
Ramol, Ahmedabad- 380024, Gujarat, India
3. Hindustan Vibrotech Pvt. Ltd.
Office no. 2, Ground Floor,
Vrindavan Building, Vile parle East, Mumbai- 400057
4. Electrons cooling systems Pvt. Ltd

s-27, SIDCO Industrial Estate, Kakkalur industrial Estate,
Tiruvallur- 602003, Tamilnadu

5. Springboard Enterprises India Lttd.
1st, 2nd, 3rd floor,
Plot no. 7, 8 & 9, Garg Shopping Mall, Service Center,
Rohini Sector 2, New Delhi-110085
6. Flour tech Engineers Pvt. Ltd.
Plot no. 182, Sector 24, Faridabad-121005, Haryana
7. P Square Technologies
3, Swami Mahal, Gurunanak Nagar,
Off. Shankar Seth Road, Bhawani path
Pune-411002
8. Ricon Engineers
10 to 13, Bhagwati Estate,
Near Amraiwadi Torrent Power,
Behind Uttam Dairy, Rakhial, Ahmedabad-380023
9. Kamdhenu Agro Machinery
Plot NO. 6, Near Power House, Wathoda,
Nagpur-440035, Maharashtra

RAW MATERIAL SUPPLIERS

Locally available in Grain Mandi House