

## **PROJECT PROFILE ON MACRO PULVERIZER**

**PRODUCT** : **PULVERIZER**

**NIC CODE (2004)** : **Based on NIC (2004)--29199**

**PRODUCT CODE** : **Based on ASICC-76723**

**PRODUCTION CAPACITY/ANNUM** : **QUANTITY : 15,000m**  
**36 Nos. per annum @**  
**Rs.2,00,000/-**  
**each machine**

**VALUE** : **Rs.72,00,000/-**

**MONTH & YEAR OF PREPARATION** : **FEBRUARY, 2011**

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## PROJECT PROFILE ON MACRO PULVERIZER

### I. INTRODUCTION:

Pulverizer is a grinding machinery used widely for powdering of dry red chillies, spices, food, herbs, plant materials, animal feed materials desired for manufacturing cakes, husks, pulses, cereals, seeds, saw dust, coconut shell, minerals, chemicals etc. India produces almost all the known grinded spices and Pulveriser is the main machine for the purpose of grinding.

### II. PLANT CAPACITY (PER ANNUM):

Quantity : 36 Nos. per annum (500 kg Cap)

Value : Rs.72 Lakhs.

### III. MARKET AND DEMAND ASPECTS:

The requirement of Pulverizers is obvious having huge demand for grinding as powder of the above wide areas. The demand of these Pulverizers is increasing day by day as well as going on improvement in purchasing power of the people the above products such spices, herbs, pharmaceutical, chemicals, etc. Under the Self Employment these are widely purchased by young Entrepreneur for manufacturing of powdered & grinded Spices/Mineral products.

### IV. RAW MATERIALS:

S.No.	Particulars	Ind./Imp.	Qty.	Rate	Value (Rs.)
1.	16mm MS Plate	Ind.	3 Tons	38,000	1,14,000
2.	12mm MS Plate	Ind.	1.5 Tons	38,000	57,000
<b>Total Raw Materials</b>					<b>1,71,000</b>

## **V. MANUFACTURE PROCESS AND SOURCE OF TECHNOLOGY:**

The following steps may be followed in sequence as below:

- a. 16 mm and 12 mm plate cut by gas cutting as per drawing
- b. Grind of edges and sharp corners.
- c. Fix the plates in jig.
- d. Assemble with all parts and then welding.
- e. Fitment of bearings, shaft, pulleys, hammers, etc.
- f. After inspection and trial, final coating to be done and ready for dispatch.

## **VI. BASIS & PRESUMPTIONS:**

- 1) It has been assumed to work 1800 hours per annum at minimum 75% working efficiency on single shift working.
- 2) A period of 3 years after commencing the commercial production has been considered for achieving full/envisaged capacity.
- 3) Labour wages has been considered as per the prevailing market rates and the minimum wages fixed by the authorities.
- 4) Interest on fixed and working capital investment has been calculated at an average rate of 12% per annum.
- 5) The cost of land and building has been calculated as per the prevailing market prices and these rates likely to vary from place to place.

## **VII. PRODUCTION CAPACITY:**

Total turnover with the proposed plant and machinery will be of the order of Rs.72,00,000 per annum.

Capacity with 500 Kgs, 36 Nos. per annum @ Rs.2,00,000/- each machine.

Approximate power requirement is 30/22 KW.

Manufacturing of Pulverizer does not pose any major problem of pollution.

It is suggested that suitable majors should be provided to conserve energy by installing suitable shunt capacitors on all the machines and equipments, etc.

**VIII. UTILITIES: (per month):**

1.	Power 500 units	@ 10/- per unit	5,000
2.	Water 300 litres	LS	1,000
	<b>Total</b>		<b>6,000</b>

**IX. FINANCIAL ASPECTS:**

Land & Building requirement 150 sq.mts. = Rs.10,000/- per month

**FIXED CAPITAL : Machinery & Equipment:**

S.No.	Description	Ind/Imp	Qty./ Nos.	Price (Rs.)
1.	Lathe machine 10 feet 3 HP capacity @ Rs.1,25,000	Ind.	3	3,75,000
2.	Milling machine complete 2 HP	Ind.	1	1,50,000
3.	Welding machine 400 amps @ Rs.25,000	Ind.	2	50,000
4.	TIG welding machine	Ind.	1	2,00,000
5.	Portable drilling machines	Ind.	1	30,000
6.	Angle hand grinders big 7" @ Rs.15,000	Ind.	3	45,000
7.	Angle hand grinders small @ Rs.5,000	Ind.	3	15,000
8.	Gas cutting equipment set @ Rs.5,000	Ind.	2 sets	10,000
9.	Electrification and installation charges @ 10% of cost of machine and equipment			87,500
10.	Office equipment and furniture	Ind.	LS	50,000
11.	Jigs, fixtures, tools and testing equipment	Ind.	LS	50,000
	<b>Total</b>			<b>10,62,500</b>

### Working Capital (per month):

(1) Personnel:

Administrative/Supervisory:

S.No.	Description	Nos.	Salary	Total
1.	Foreman/Supervisor	1	10,000	10,000
2.	Typist-cum-Clerk	1	7,000	5,000
3.	Peon	1	2,000	2,000

### Technical:

1.	Skilled Worker	10	8,000	80,000
2.	Semi-skilled worker	5	6,000	30,000
3.	Unskilled Worker	5	4,000	20,000
4.	Chowkidar	1	3,000	3,000
<b>Total Salary</b>				1,50,000
<b>Add: Perquisites @ 15% of salary</b>				22,500
<b>Total</b>				<b>1,72,500</b>
<b>Say</b>				<b>1,73,000</b>

### RAW MATERIALS:

S.No.	Particulars	Ind./Imp.	Qty.	Rate	Value (Rs.)
1.	16mm MS Plate	Ind.	3 Tons	38,000	1,14,000
2.	12mm MS Plate	Ind.	1.5 Tons	38,000	57,000
<b>Total Raw Materials</b>					<b>1,71,000</b>

### UTILITIES: (per month):

1.	Power 500 units	@ 10/- per unit	5,000
2.	Water 300 litres	LS	1,000
<b>Total</b>			<b>6,000</b>

**Other Contingent expenses:**

1	Postage & Stationery	2,000
2	Telephone	3,000
3	Repair & Maintenance	5,000
4	Transportation Charges	20,000
5	Advertisement & Publicity	5,000
6	Insurance	2,000
7	Taxes	5,000
8	Sales expenses	1,000
9	Consumable Stores like Paint/Welding	16,000
10	Misc. Expenses/X-Ray, Testing Charges, etc.	10,000
	<b>Total</b>	<b>69,000</b>

**TOTAL RECURRING EXPENDITURE:**

1	Staff & Labour	1,73,000
2	Raw Materials	1,71,000
3	Utilities	6,000
4	Other Contingency expenses	69,000
	<b>Total</b>	<b>4,19,000</b>

**Working Capital for 3 months:**

= 12,57,000

**Total Capital Investment:**

1	Fixed Capital	11,82,500
2	Workig Capital for 3 months	12,57,000
	<b>Total</b>	<b>24,39,500</b>

**Financial Analysis****Cost of Production per year:**

Total recurring cost per year	50,28,000
Depreciation on machinery & equipments @ 10%	87,500
Depreciation on dies, jigs and fixtures @ 10%	5,000
Depreciation on office equipment @ 10%	5,000
Interest on total capital investment @ 12% per annum	2,92,740

<b>Total Cost of Production</b>	<b>54,18,240</b>
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**Turn over (per annum):**

S.No.	Item	Qty.	Rate (Rs.)	Value (Rs.)
1.	Pulverizer 500 kgs. Capacity	36 nos.	2,00,000	72,00,000
2.	By sale of scrap	5 tons	15,000	75,000
	<b>Total</b>			<b>72,75,000</b>

**Net Profit per year:**

$$\text{Total Turnover} - \text{Cost of Production} \\ = 72,75,000 - 54,18,240 = 18,56,760/-$$

**Profit on Sale:**

Net profit per year x 100 / Total sale

$$= 18,56,760 \times 100 / 72,75,000 = 25.52\%$$

**Rate of Return:**

Net profit per year x 100 / Total investment

$$= 18,56,760 \times 100 / 24,39,500 = 76.11\%$$

**Break Even Point:**

**Fixed Cost:**

1.	Depreciation on machinery & equipments, tools, fixtures and office equipments @ 10%	87,500
2.	Interest on total investment @ 12%	2,92,740
3.	40% of salary and wages	8,30,400
4.	40% of utilities & other contingencies expenses	3,12,000
	<b>Total Fixed Capital</b>	<b>15,22,640</b>

**B.E.P.:**

$$= \text{Fixed cost} \times 100 / \text{Fixed cost} + \text{Profit}$$

$$= 15,22,640 \times 100 / 15,22,640 + 18,56,760$$

$$= 15,22,64,000 / 33,79,400 = 45.05\% \text{ or Say } 45\%$$

**XIV. Name & Addresses of Suppliers of Machinery & Equipments :**

1. M/s. Botliboi & Co., Forbes Street, Fort, Mumbai - 400001.
2. M/s. Perfect Machine Tools Pvt. Ltd., Bell Building, Sir P.M.Road, Mumbai-400 001.
3. M/s. Quality Machine Tools, J.c.Road, Bangalore. .
4. M/s. Daulat Industrial Corpn. (P) Ltd., P.B. No. 309, Civil Lines, Ludhiana.
5. M/s. B. P. Engg. Co., 13-A Indl. Estate,
6. M/s. Ram Bros. Pvt. Ltd., Basti Bawakhel, lalandhar .
7. M/s. Vee Kay Industries, 5-B, Textile Colony, Indl. Area-A, Ludhiana .

**XV. Names and addresses of Supplier of Raw Materials.**

Locally available.