



DETAILED PROJECT REPORT
AMARANTHUS PROCESSING UNIT
UNDER PMFME SCHEME



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Ministry of Food Processing Industries

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1. PROJECT SUMMARY

1. Name of the proposed project	:	Amaranthus Processing Unit
2. Nature of proposed project	:	Proprietorship/Company/Partnership
3. Proposed project capacity	:	432000 Kg/annum (40,45,50,55&60% capacity utilization in 1 st to 5 th Year respectively)
4. Raw material	:	Harvested Amaranthus seed
5. Major product outputs	:	Processed Amaranthus seed
6. Total project cost	:	Rs. 24.62 Lakh
• Land development, building & Civil Construction	:	Nil
• Machinery and equipment's	:	Rs. 14.45 Lakh
• Miscellaneous Fixed Assets	:	Rs. 3.00 Lakh
• Working capital	:	Rs. 7.17 Lakh
7. Means of Finance		
• Subsidy (max 10lakhs)	:	Rs. 6.11 Lakh
• Promoter's contribution (min10%)	:	Rs. 2.45 Lakh
• Term loan	:	Rs. 9.60 Lakh
• Working Capital Requirement	:	Rs. 6.45 Lakh
8. Profit after Depreciation, Interest & Tax		
• 1 st year	:	Rs. 2.12 Lakh
• 2 nd year	:	Rs. 3.78 Lakh
• 3 rd year	:	Rs. 5.30 Lakh
• 4 th year	:	Rs. 7.13 Lakh
• 5 th year	:	Rs. 8.68 Lakh
9. Average DSCR	:	Rs. 3.14
10. Term loan repayment	:	5 Years with 6 months grace period

2. ABOUT THE PRODUCT

2.1. PRODUCT INTRODUCTION:

Amaranth in Hindi is known as Rajgira. Simply put, Rajgira means raj (royal) & gira (grain). As a matter of fact, amaranth grain meaning in Gujarati is also Rajgira. Moreover, amaranth grain in India is also known as 'Ramdana', meaning God's own grain. Amaranthus is a genus (family Amaranthaceae) consisting of more than 50 species and is a pseudocereal that was domesticated in America over 4000 years ago by the Aztecs and Mayas. The importance of amaranth has resurged in the last years due to agricultural features, since it is a fast-growing cultivar with tolerance to drought conditions, can grow in poor soils, and has important nutritional properties. Moreover, it has minerals, such as calcium, sodium, iron, magnesium, and vitamin E. Polyphenolic compounds, such as phenolic acids and flavonoids, which have been characterized in amaranth grains, which makes it an excellent source of bioactive compounds. Typically, amaranth grain is not eaten raw and suffers a variety of processing methods in order to achieve desired flavor, color, texture, and, sometimes, nutritional and nutraceutical properties.

PRODUCT USES

- There are various ways to use amaranth as a part of the daily diet:
- Boil whole amaranth grains can be used to make porridge.
- Pop dried amaranth can be used as popcorn and it is eaten as a snack.
- Popped amaranth can be also used as salads or in soups.
- Amaranth oil can be used in dietary supplements and cosmetics.
- Amaranth seed also can be used as flaked, extruded, and ground flour .

2.2. MARKET POTENTIAL:

Amaranth seed has a high protein content, which helps muscles heal faster after they've worked out. Recent developments, such as busy and urban lifestyles, the acceptance of on-the-go meals, and rising health consciousness among the working population, are expected to fuel demand for low-cost protein sustenance over the forecast period. Amaranth oil also has anti-inflammatory effects, which may help you avoid allergic reactions. Amaranth by-products are used in nutritional supplements, cosmetics, pharmaceuticals, and food additives, among other fields. Over the forecast period, the increasing geriatric population, for which the substance is advantageous in a variety of medical conditions, is expected to drive up demand for amaranth in the pharmaceutical industry. The high concentration of proteins, enzymes, and phytosterols in amaranth seeds and leaves makes them one of the most sought-after grains on the market. Aside from the high protein content, amaranth seeds contain various peptides that are believed to inhibit free radical activity and suppress inflammation. The global amaranth market size is anticipated to reach USD 13.89 billion by 2025, according to a new report by Grand View Research, Inc., progressing at a CAGR of 11.3% during the forecast period. The presence of rare elements such as squalene, oleic acid, stearic acid, and tocopherols, which help in boosting bone strength, reducing inflammation, repairing tissues, while providing numerous other health benefits, is projected to play a crucial factor in fuelling the demand for amaranth over the forecast years. The global amaranth market is projected to hit USD 13.89 billion by 2025, rising at a CAGR of 11.3 percent over the forecast period. The presence of rare elements such as squalene, oleic acid, stearic acid, and tocopherols, which aid in bone strength, inflammation reduction, tissue repair, and a variety of other health benefits, is expected to drive demand for amaranth in the coming years.

2.3. RAW MATERIAL DESCRIPTION:

The only raw material that is used in Amaranthus Processing unit is Harvested Amaranthus seeds.

3. PROCESS FLOW CHART

Harvesting

Harvesting is very important in the processing because the right stage of amaranths harvesting play an important role. Since amaranth grain shatters quickly, it is best to harvest the crop as soon as the panicle/head colour changes from green to golden brown and seeds fall on the light shaking of the vine. To avoid seed failure, cut off the heads and place them in a jar like a gunny bag or a bucket it detaches from the stem and falls into the container.

Threshing and storage of grains

Place the panicles on a clean polythene sheet to dry. These panicles after proper drying are threshed using a thresher machine. After threshing, these grains are properly dried in sunlight or an air dryer machine the correct moisture content for storing grain amaranth is 11-13%.

Grain delivery:

The grain is supplied by covered trucks to factories. The distance travelled by the grain varies tremendously. After arriving at the mill, grain stocks will often have gone through a variety of

accumulation processes (farmer, country elevator, terminal elevator, etc.).The number of conveyances carrying grain can vary based on the time of harvesting and delivery.

Cleaning of seed

Amaranths Seed cleaning for removal of extraneous material like stones, mud, etc.

De-stoning:

The aim of this process is that removes stones and other particles impurities from the amaranths seed.

Magnetic separation:

The amaranths seeds first pass by a magnetic separator that removes ferrous metal particles. It is also necessary to ensure that no metal pieces are in the finished product.

Gravity separation

The gravity separator separates products of same size but with difference in specific weight.

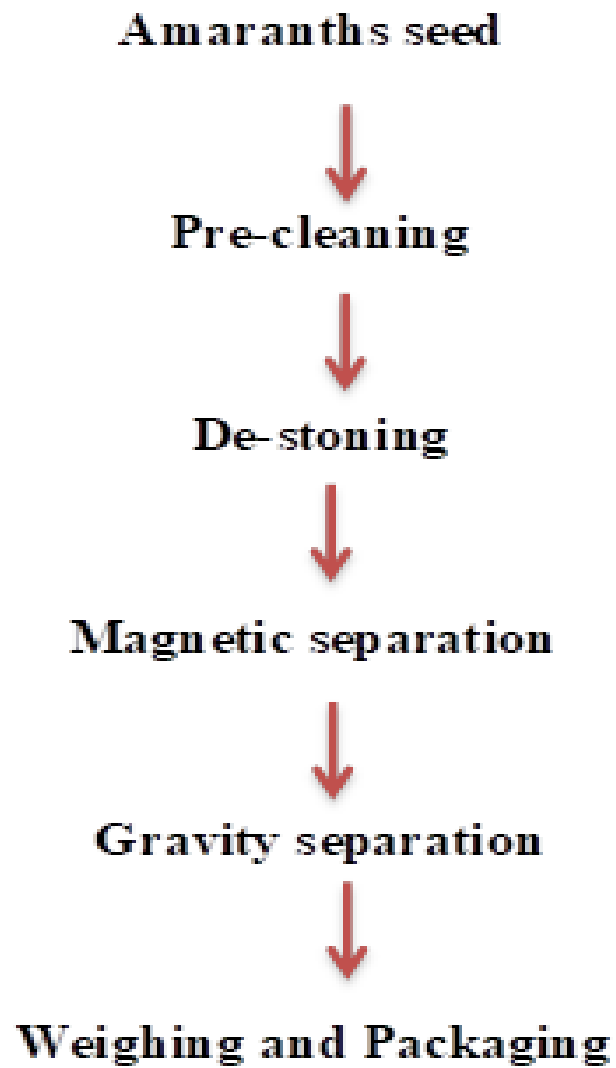
Seed grading

As it is small grain bus also it is a value additional optional process to obtain uniform size seed.

Weighing Packaging

The packaging is done in a simple manner: the amaranth seed are fed into the packaging machine's holding tank, which then weighs and fills the amaranth seed into the appropriate packages. It simply fills the sacs to the desired weight and sews the other end.

Flow chart



4. ECONOMICS OF THE PROJECT

4.1. BASIS & PRESUMPTIONS

1. Production Capacity of Amaranthus seed is 200 Kg. per hr. First year, Capacity has been taken @ 40%.
2. Working shift of 8 hours per day has been considered.
3. Raw Material stock is for 10 days and Finished goods Closing Stock has been taken for 10 days.
4. Credit period to Sundry Debtors has been given for 7 days.
5. Credit period by the Sundry Creditors has been provided for 7 days.
6. Depreciation and Income tax has been taken as per the Income tax Act, 1961.
7. Interest on working Capital Loan and Term loan has been taken at 11%.
8. Salary and wages rates are taken as per the Current Market Scenario.
9. Power Consumption has been taken at 22 KW.
10. Increase in sales and raw material costing has been taken @ 5% on a yearly basis.

4.2. CAPACITY, UTILIZATION, PRODUCTION & OUTPUT

<u>COMPUTATION OF PRODUCTION OF AMARANTHUS SEED</u>		
Items to be Manufactured		
Amaranthus seed		
Machine capacity Per hour	200	Kg
Total working Hours	8	
Machine capacity Per Day	1,600	Kg
Working days in a month	25	Days
Working days per annum	300	
Wastage Considered	10%	
Raw material requirement	480000	Kg
Final Output per annum after wastage	432000	Kg
Final Product to be packed in 1 Kg packet		
Number of Packets per annum	432000	1 Kg packet

Production of Amaranthus seed		
Production	Capacity	Packets
1st year	40%	1,72,800
2nd year	45%	1,94,400
3rd year	50%	2,16,000
4th year	55%	2,37,600
5th year	60%	2,59,200


Raw Material Cost			
Year	Capacity Utilisation	Rate (per kg)	Amount (Rs. in lacs)
1st year	40%	35.00	67.20
2nd year	45%	37.00	79.92
3rd year	50%	39.00	93.60
4th year	55%	41.00	108.24
5th year	60%	43.00	123.84

COMPUTATION OF SALE					
Particulars	1st year	2nd year	3rd year	4th year	5th year
Op Stock	-	5,760	6,480	7,200	7,920
Production	1,72,800	1,94,400	2,16,000	2,37,600	2,59,200
Less : Closing Stock	5,760	6,480	7,200	7,920	8,640
Net Sale	1,67,040	1,93,680	2,15,280	2,36,880	2,58,480
Sale price per packet	76.00	80.00	84.00	88.00	92.00
Sales (in Lacs)	126.95	154.94	180.84	208.45	237.80



4.3. PREMISES/INFRASTRUCTURE

The approximate total area required for complete factory setup is 2500-3500 Sq. ft. for smooth production including storage area. It is expected that the premises will be on rental.

4.4. MACHINERY & EQUIPMENTS

Machine Name	Description	Machine Image.
Seed Cleaning Machine	This machine is used for the pre cleaning process of arrived Amaranths seed.	
Seed Destoner Machine	This machine's aim is to remove stones and other mud material from the given grins.	
Magnetic Separator	It's a type of separator which is used to magnetic impurities from given product using powerful electromagnets, used in wide range of industries for separation.	
Gravity Separator	The gravity separator is used to separate any type of kernel or granular product that is nearly identical in size but differs in weight.	
Bucket Elevator	A bucket lift is also a grain leg and is a device for vertical transport, often grain materials.	
Packaging Machine	A machine for automated weighing and packaging supports the exact weighing and packaging of Amaranths seed. The	

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	machine weighs and fills the products with precise measures.	
Material handling and other Equipment's	These Equipment's are used for material handling. Other equipment's like unloading bins, bucket elevators, motors, etc. are also used.	

Machine	Unit	Rate	Price
Seed Cleaning Machine	1	350000	350000
Seed Destoner Machine	1	150000	150000
Magnetic Separator	1	160000	160000
Gravity Separator	1	125000	125000
Packaging Machine	1	260000	260000
Material handling and other equipment's (Unloading Bins, bucket elevator, silos, etc.)	-	400000	400000

Note: Total Machinery cost shall be Rs 14.45 lakh including equipment's but excluding GST and Transportation Cost.

4.5. MISCELLANEOUS FIXED ASSETS

- Water Supply Arrangements
- Furniture & Fixtures
- Computers & Printers

4.6. TOTAL COST OF PROJECT

COST OF PROJECT	
	(in Lacs)
PARTICULARS	Amount
Land & Building	Owned/Rented
Plant & Machinery	14.45
Miscellaneous Assets	3.00
Working capital	7.17
Total	24.62

4.7. MEANS OF FINANCE

MEANS OF FINANCE	
PARTICULARS	AMOUNT
Own Contribution (min 10%)	2.45
Subsidy @35%(Max. Rs 10 Lac)	6.11
Term Loan @ 55%	9.60
Working Capital (Bank Finance)	6.45
Total	24.62

4.8. TERM LOAN: Term loan of Rs. 9.60 Lakh is required for project cost of Rs. 24.62 Lakh

4.9. TERM LOAN REPAYMENT& INTEREST SCHEDULE

REPAYMENT SCHEDULE OF TERM LOAN							
						Interest	11.00%
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Closing Balance
1st	Opening Balance						
	1st month	-	9.60	9.60	-	-	9.60
	2nd month	9.60	-	9.60	0.09	-	9.60
	3rd month	9.60	-	9.60	0.09	-	9.60
	4th month	9.60	-	9.60	0.09	-	9.60
	5th month	9.60	-	9.60	0.09	-	9.60
	6th month	9.60	-	9.60	0.09	-	9.60
	7th month	9.60	-	9.60	0.09	0.18	9.42
	8th month	9.42	-	9.42	0.09	0.18	9.24
	9th month	9.24	-	9.24	0.08	0.18	9.06
	10th month	9.06	-	9.06	0.08	0.18	8.89
	11th month	8.89	-	8.89	0.08	0.18	8.71
	12th month	8.71	-	8.71	0.08	0.18	8.53
					0.94	1.07	
2nd	Opening Balance						
	1st month	8.53	-	8.53	0.08	0.18	8.35
	2nd month	8.35	-	8.35	0.08	0.18	8.18
	3rd month	8.18	-	8.18	0.07	0.18	8.00

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4th month	8.00	-	8.00	0.07	0.18	7.82
5th month	7.82	-	7.82	0.07	0.18	7.64
6th month	7.64	-	7.64	0.07	0.18	7.46
7th month	7.46	-	7.46	0.07	0.18	7.29
8th month	7.29	-	7.29	0.07	0.18	7.11
9th month	7.11	-	7.11	0.07	0.18	6.93
10th month	6.93	-	6.93	0.06	0.18	6.75
11th month	6.75	-	6.75	0.06	0.18	6.58
12th month	6.58	-	6.58	0.06	0.18	6.40
				0.83	2.13	
3rd	Opening Balance					
1st month	6.40	-	6.40	0.06	0.18	6.22
2nd month	6.22	-	6.22	0.06	0.18	6.04
3rd month	6.04	-	6.04	0.06	0.18	5.87
4th month	5.87	-	5.87	0.05	0.18	5.69
5th month	5.69	-	5.69	0.05	0.18	5.51
6th month	5.51	-	5.51	0.05	0.18	5.33
7th month	5.33	-	5.33	0.05	0.18	5.15
8th month	5.15	-	5.15	0.05	0.18	4.98
9th month	4.98	-	4.98	0.05	0.18	4.80
10th month	4.80	-	4.80	0.04	0.18	4.62
11th month	4.62	-	4.62	0.04	0.18	4.44
12th month	4.44	-	4.44	0.04	0.18	4.27
				0.60	2.13	

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4th	Opening Balance						
	1st month	4.27	-	4.27	0.04	0.18	4.09
	2nd month	4.09	-	4.09	0.04	0.18	3.91
	3rd month	3.91	-	3.91	0.04	0.18	3.73
	4th month	3.73	-	3.73	0.03	0.18	3.55
	5th month	3.55	-	3.55	0.03	0.18	3.38
	6th month	3.38	-	3.38	0.03	0.18	3.20
	7th month	3.20	-	3.20	0.03	0.18	3.02
	8th month	3.02	-	3.02	0.03	0.18	2.84
	9th month	2.84	-	2.84	0.03	0.18	2.67
	10th month	2.67	-	2.67	0.02	0.18	2.49
	11th month	2.49	-	2.49	0.02	0.18	2.31
	12th month	2.31	-	2.31	0.02	0.18	2.13
					0.36	2.13	
5th	Opening Balance						
	1st month	2.13	-	2.13	0.02	0.18	1.96
	2nd month	1.96	-	1.96	0.02	0.18	1.78
	3rd month	1.78	-	1.78	0.02	0.18	1.60
	4th month	1.60	-	1.60	0.01	0.18	1.42
	5th month	1.42	-	1.42	0.01	0.18	1.24
	6th month	1.24	-	1.24	0.01	0.18	1.07
	7th month	1.07	-	1.07	0.01	0.18	0.89
	8th month	0.89	-	0.89	0.01	0.18	0.71
	9th month	0.71	-	0.71	0.01	0.18	0.53
	10th month	0.53	-		0.00	0.18	0.36

			0.53			
11th month	0.36	-	0.36	0.00	0.18	0.18
12th month	0.18	-	0.18	0.00	0.18	-
			0.13		2.13	
DOOR TO DOOR MORATORIUM PERIOD	60	MONTHS				
REPAYMENT PERIOD	6	MONTHS				
	54	MONTHS				

4.10. WORKING CAPITAL CALCULATIONS

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL					(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>Finished Goods</u>					
	3.53	4.14	4.77	5.45	6.15
<u>Raw Material</u>					
	2.24	2.66	3.12	3.61	4.13
Closing Stock	5.77	6.80	7.89	9.06	10.28

COMPUTATION OF WORKING CAPITAL REQUIREMENT					
TRADITIONAL METHOD					(in Lacs)
Particulars	Amount	Own Margin		Bank Finance	
Finished Goods & Raw Material	5.77				
Less : Creditors	1.57				
Paid stock	4.20	10%	0.42	90%	3.78
Sundry Debtors	2.96	10%	0.30	90%	2.67
	7.17		0.72		6.45
MPBF					6.45
WORKING CAPITAL LIMIT DEMAND (from Bank)					6.45
Working Capital Margin					0.72

4.11. SALARY & WAGES

<u>BREAK UP OF LABOUR CHARGES</u>			
Particulars	Wages	No of	Total
	Rs. per Month	Employees	Salary
Plant Operator	16,000	4	64,000
Supervisor	20,000	1	20,000
Skilled (in thousand rupees)	15,000	3	45,000
Unskilled (in thousand rupees)	8,000	6	48,000
Total salary per month			1,77,000
Total annual labour charges	(in lacs)		21.24

<u>BREAK UP OF STAFF SALARY CHARGES</u>			
Particulars	Salary	No of	Total
	Rs. per Month	Employees	Salary
Administrative Staff	8,500	4	34,000
Manager	25,000	1	25,000
Accountant	20,000	2	40,000
Total salary per month			99,000
Total annual Staff charges	(in lacs)		11.88

4.12 POWER REQUIREMENT

Utility Charges (per month)		
Particulars	value	Description
Power connection required	22	KWH
consumption per day	176	units
Consumption per month	4,400	units
Rate per Unit	10	Rs.
power Bill per month	44,000	Rs.

4.13. DEPRECIATION CALCULATION

COMPUTATION OF DEPRECIATION			(in Lacs)
Description	Plant & Machinery	Miss. Assets	TOTAL
Rate of Depreciation	15.00%	10.00%	
Opening Balance	-	-	-
Addition	14.45	3.00	17.45
Total	14.45	3.00	17.45
Less : Depreciation	2.17	0.30	2.47
WDV at end of Year	12.28	2.70	14.98
Additions During The Year	-	-	-
Total	12.28	2.70	14.98
Less : Depreciation	1.84	0.27	2.11
WDV at end of Year	10.44	2.43	12.87
Additions During The Year	-	-	-
Total	10.44	2.43	12.87
Less : Depreciation	1.57	0.24	1.81
WDV at end of Year	8.87	2.19	11.06
Additions During The Year	-	-	-
Total	8.87	2.19	11.06
Less : Depreciation	1.33	0.22	1.55
WDV at end of Year	7.54	1.97	9.51
Additions During The Year	-	-	-
Total	7.54	1.97	9.51
Less : Depreciation	1.13	0.20	1.33
WDV at end of Year	6.41	1.77	8.18

4.14. REPAIR & MAINTENANCE: Repair & Maintenance is 3.5% of Gross Sale.

4.15. PROJECTIONS OF PROFITABILITY ANALYSIS:

PROJECTED PROFITABILITY STATEMENT					(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Capacity Utilisation %	40%	45%	50%	55%	60%
<u>SALES</u>					
Gross Sale					
Amaranthus seed	126.95	154.94	180.84	208.45	237.80
Total	126.95	154.94	180.84	208.45	237.80
COST OF SALES					
Raw Material Consumed	67.20	79.92	93.60	108.24	123.84
Electricity Expenses	5.28	5.81	6.39	7.03	7.73
Depreciation	2.47	2.11	1.81	1.55	1.33
Wages & labour	21.24	24.43	27.36	30.64	33.70
Repair & maintenance	4.44	5.42	6.33	7.30	8.32
Packaging	5.33	6.51	7.60	8.76	9.51
Cost of Production	105.96	124.20	143.08	163.51	184.44
Add: Opening Stock /WIP	-	3.53	4.14	4.77	5.45
Less: Closing Stock /WIP	3.53	4.14	4.77	5.45	6.15
Cost of Sales	102.43	123.59	142.45	162.83	183.74
GROSS PROFIT	24.52	31.35	38.39	45.63	54.06
	19.31%	20.24%	21.23%	21.89%	22.73%
Salary to Staff	11.88	14.85	18.12	21.74	26.09
Interest on Term Loan	0.94	0.83	0.60	0.36	0.13
Interest on working Capital	0.71	0.71	0.71	0.71	0.71
Rent	4.80	5.76	6.91	8.29	9.95
selling & adm exp	4.06	5.42	6.51	6.67	7.37
TOTAL	22.40	27.57	32.84	37.78	44.25
NET PROFIT	2.12	3.78	5.54	7.85	9.81
	1.67%	2.44%	3.06%	3.77%	4.13%
Taxation	-	-	0.24	0.72	1.13
PROFIT (After Tax)	2.12	3.78	5.30	7.13	8.68

4.16. BREAK EVEN POINT ANALYSIS

BREAK EVEN POINT ANALYSIS					
Year	I	II	III	IV	V
Net Sales & Other Income	126.95	154.94	180.84	208.45	237.80
Less : Op. WIP Goods	-	3.53	4.14	4.77	5.45
Add : Cl. WIP Goods	3.53	4.14	4.77	5.45	6.15
Total Sales	130.48	155.55	181.46	209.14	238.50
Variable & Semi Variable Exp.					
Raw Material Consumed	67.20	79.92	93.60	108.24	123.84
Electricity Exp/Coal Consumption at 85%	4.49	4.94	5.43	5.97	6.57
Wages & Salary at 60%	19.87	23.57	27.28	31.43	35.88
Selling & administrative Expenses 80%	3.25	4.34	5.21	5.34	5.90
Interest on working Capital	0.70946	0.70946	0.70946	0.70946	0.70946
Repair & maintenance	4.44	5.42	6.33	7.30	8.32
Packaging	5.33	6.51	7.60	8.76	9.51
Total Variable & Semi Variable Exp	105.29	125.40	146.16	167.74	190.73
Contribution	25.19	30.15	35.31	41.40	47.77
Fixed & Semi Fixed Expenses					
Electricity Exp/Coal Consumption at 15%	0.79	0.87	0.96	1.05	1.16
Wages & Salary at 40%	13.25	15.71	18.19	20.95	23.92
Interest on Term Loan	0.94	0.83	0.60	0.36	0.13
Depreciation	2.47	2.11	1.81	1.55	1.33
Selling & administrative Expenses 20%	0.81	1.08	1.30	1.33	1.47
Rent	4.80	5.76	6.91	8.29	9.95
Total Fixed Expenses	23.06	26.37	29.77	33.55	37.96
Capacity Utilization	40%	45%	50%	55%	60%
OPERATING PROFIT	2.12	3.78	5.54	7.85	9.81
BREAK EVEN POINT	37%	39%	42%	45%	48%
BREAK EVEN SALES	119.48	136.04	152.99	169.48	189.52

4.17. PROJECTED BALANCE SHEET

PROJECTED BALANCE SHEET					(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>Liabilities</u>					
Capital					
opening balance		8.18	8.47	9.76	11.89
<i>Add:- Own Capital</i>	2.45				
Add:- Retained Profit	2.12	3.78	5.30	7.13	8.68
Less:- Drawings	2.50	3.50	4.00	5.00	6.50
Subsidy/grant	6.11				
Closing Balance	8.18	8.47	9.76	11.89	14.07
Term Loan	8.53	6.40	4.27	2.13	-
Working Capital Limit	6.45	6.45	6.45	6.45	6.45
Sundry Creditors	1.57	1.86	2.18	2.53	2.89
Provisions & Other Liab	0.40	0.50	0.60	0.72	0.86
TOTAL :	25.13	23.68	23.26	23.72	24.27
<u>Assets</u>					
Fixed Assets (Gross)	17.45	17.45	17.45	17.45	17.45
Gross Dep.	2.47	4.58	6.39	7.94	9.27
Net Fixed Assets	14.98	12.87	11.06	9.51	8.18
Current Assets					
Sundry Debtors	2.96	3.62	4.22	4.86	5.55
Stock in Hand	5.77	6.80	7.89	9.06	10.28
Cash and Bank	1.42	0.39	0.09	0.29	0.27
TOTAL :	25.13	23.68	23.26	23.72	24.27

4.18. CASH FLOW STATEMENT

<u>PROJECTED CASH FLOW STATEMENT</u>					(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>SOURCES OF FUND</u>					
Own Margin	2.45				
Net Profit	2.12	3.78	5.54	7.85	9.81
Depriciation & Exp. W/off	2.47	2.11	1.81	1.55	1.33
Increase in Cash Credit	6.45	-	-	-	-
Increase In Term Loan	9.60	-	-	-	-
Increase in Creditors	1.57	0.30	0.32	0.34	0.36
Increase in Provisions & Oth lib	0.40	0.10	0.10	0.12	0.14
Sunsidy/grant	6.11				
TOTAL :	31.17	6.29	7.77	9.86	11.65
<u>APPLICATION OF FUND</u>					
Increase in Fixed Assets	17.45				
Increase in Stock	5.77	1.03	1.09	1.17	1.22
Increase in Debtors	2.96	0.65	0.60	0.64	0.68
Repayment of Term Loan	1.07	2.13	2.13	2.13	2.13
Drawings	2.50	3.50	4.00	5.00	6.50
Taxation	-	-	0.24	0.72	1.13
TOTAL :	29.75	7.32	8.06	9.67	11.67
Opening Cash & Bank Balance	-	1.42	0.39	0.09	0.29
Add : Surplus	1.42	-1.03	-0.30	0.19	-0.02
Closing Cash & Bank Balance	1.42	0.39	0.09	0.29	0.27

4.19. DEBT SERVICE COVERAGE RATIO

<u>CALCULATION OF D.S.C.R</u>					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
CASH ACCRUALS	4.59	5.89	7.11	8.68	10.01
Interest on Term Loan	0.94	0.83	0.60	0.36	0.13
Total	5.54	6.72	7.70	9.04	10.14
<u>REPAYMENT</u>					
Instalment of Term Loan	1.07	2.13	2.13	2.13	2.13
Interest on Term Loan	0.94	0.83	0.60	0.36	0.13
Total	2.01	2.96	2.73	2.49	2.26
DEBT SERVICE COVERAGE RATIO	2.75	2.27	2.82	3.62	4.49
AVERAGE D.S.C.R.	3.14				