



DETAILED PROJECT REPORT

ROASTED PEANUT UNIT

UNDER PMFME SCHEME



National Institute of Food Technology Entrepreneurship and Management

Ministry of Food Processing Industries

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1. PROJECT SUMMARY

1. Name of the proposed project	:	Roasted Peanut Unit
2. Nature of proposed project	:	Proprietorship/Company/Partnership
3. Proposed project capacity	:	228000 Kg/annum(50,55,60,65 & 70% capacity utilization in 1 st to 5 th Year respectively)
4. Raw material	:	Raw nuts, Oil, Salt and Spices
5. Major product outputs	:	Roasted Peanuts
6. Total project cost	:	Rs. 23.98 Lakh
• Land development, building & Civil Construction	:	Nil
• Machinery and equipment's	:	Rs. 13.70 Lakh
• Miscellaneous Fixed Assets	:	Rs. 2.50 Lakh
• Working capital	:	Rs. 7.78 Lakh
8. Means of Finance		
• Subsidy (max 10lakhs)	:	Rs. 5.67 Lakh
• Promoter's contribution (min10%)	:	Rs. 2.39 Lakh
• Term loan	:	Rs. 8.91 Lakh
• Working Capital Requirement	:	Rs. 7.00 Lakh
9. Profit after Depreciation, Interest & Tax		
• 1 st year	:	Rs. 1.35 Lakh
• 2 nd year	:	Rs. 3.12 Lakh
• 3 rd year	:	Rs. 5.26 Lakh
• 4 th year	:	Rs. 7.35 Lakh
• 5 th year	:	Rs. 9.27 Lakh
11. Average DSCR	:	Rs. 3.30
12. Term loan repayment	:	5 Years with 6 months grace period

2. ABOUT THE PRODUCT

2.1. PRODUCT INTRODUCTION:

Peanuts and other nuts are commonly used in different food preparations in India as well as in different countries and are also consumed directly with easy processing as they contain a huge amount of nutrition. Nuts are processed and roasted and may also be used for other purposes in the flavoring process. In everyday routine and throughout various industries, such as peanut butter, nut-based chocolates, cookies, and as an intermediate to many other food items, flavored and roasted nuts are extensively used.

The basic flavors of roasted peanuts are:

- Plain Roasted Peanut
- Roasted Salty Peanut
- Spice coated Roasted Peanut
- Hot Honey Coated Roasted Peanut
- Salt & Pepper Roasted Peanut
- Roasted Chipotle spiced peanut, etc.

2.2. MARKET POTENTIAL:

With various food standards such as FSSAI, FSMS, ISI and ISO standards implementation, there can be huge market growth for roasted peanut processing. The wide application of peanuts in the food industry is considered as a major driver for peanuts market. Peanuts are widely used for the extraction of oils and peanut flour. The processing of peanuts and its high consumption as snacks also has a positive impact on its market growth. The high nutrient value of peanuts makes its consumption more popular amongst the health conscious consumers. Shift in consumption pattern and adoption of healthy lifestyle has supported the positive growth of peanuts market.

The Global Peanuts Market is segmented into North America, Europe, Asia Pacific, and rest of the world (ROW). Asia Pacific region has the major market share followed by North America. Changing life-style has led to adoption of healthy diet by consumers due to which Asia-Pacific is projected to generate a high revenue during the given forecast period. The Major importers of peanuts include Netherlands, China, Vietnam, Indonesia and Germany. Based on the higher demand for food oils with high mono-unsaturated fatty acids, the import and export of peanuts in the developed countries is found to rise at a steady growth rate.

2.3. RAW MATERIAL DESCRIPTION:

Various nuts in raw form are basic raw material for this manufacturing setup. For roasting and flavoring, oil, salt, masala, pepper and other flavors are needed.

S.N.	Particulars	Rate
1	Raw Nuts	Rs. 80-90 Per Kg
2	Oil	Rs. 100-150 Per Litre
3	Salt	Rs. 10-12 Per Kg
4	Spices	Rs. 100-120 Per Kg

Average raw material cost per 1 kg Packet of Roasted Peanuts: Rs. 80-90

3. PROCESS FLOW CHART

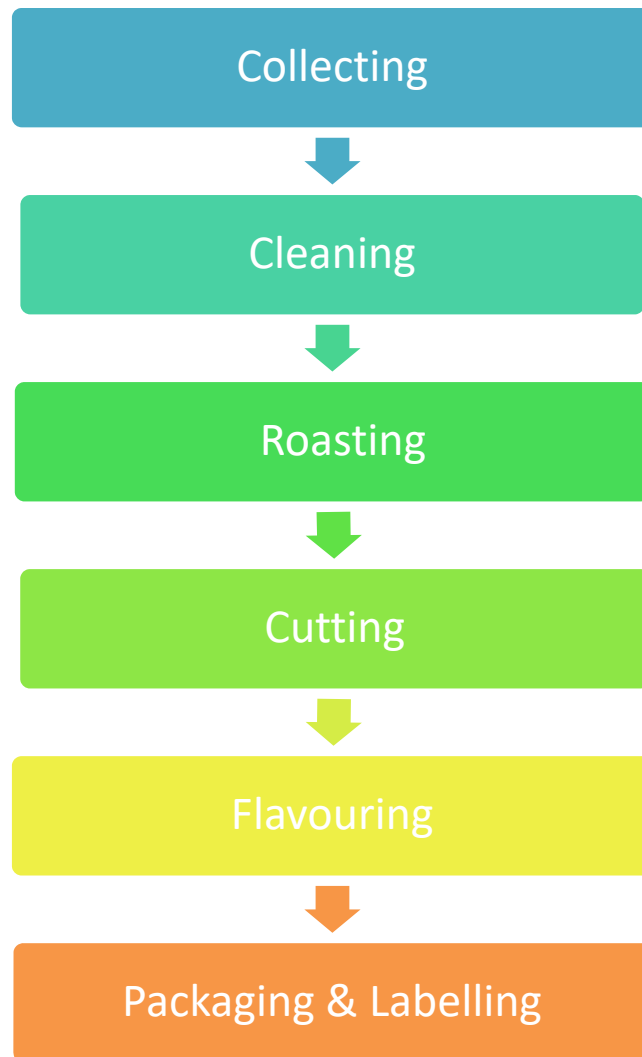
There are two process for roasting peanuts-

- Dry Roasting
- Oil roasting

Here we have elaborated Dry Roasting process:

- Dry roasting is either a batch process or an ongoing one. Batch roasters provide the benefit of changing peanut batches from storage for various moisture contents. Batch roasters are usually rotating ovens fired by natural gas (drum-shaped). To create an even roast, the rotation of the oven continuously stirs the peanuts.

- The temperature of the oven is about 430 ° C (800 ° F), and the temperature of the peanuts is increased to about 160 ° C (320 ° F) for 40 to 60 minutes. Real roasting temperatures and times differ with the state of the peanut batch and the desired end characteristics.
- Ongoing roasters will move peanuts through an oven on a stove.
- Conveyor, or feed by gravity. Peanuts are fed by a conveyor into a stream of countercurrent hot air that roasts the peanuts in one form of roaster. The peanuts are agitated in this method to ensure air passes around the individual kernels to facilitate an even roast.
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- Dry peanuts that have been roasted are cooled and blanched. Cooling happens in cooling boxes or on conveyors where, immediately after roasting, huge amounts of air are sprayed over the peanuts. To stop the process of roasting and maintain a uniform consistency, cooling is required. Removes Blanching Peanut skin, as well as dust, moulds, and other foreign materials. Several blanching techniques are available, including dry, water, spin and air impact.
- Air impact blanching uses a horizontal drum (cylinder) to position and rotate the peanuts. The drum's inner surface has an abrasive surface that helps to loosen the skin as the drum rotates.
- The roasted peanuts are finally coated with salt or other spices as per requirement and the packed and labeled.



4. ECONOMICS OF THE PROJECT

4.1. BASIS & PRESUMPTIONS

1. Production Capacity of Roasted Peanuts is 100 kg per hr. First year, Capacity has been taken @ 50%.
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 7days.
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 12 KW.
10. Increase in sales and raw material costing has been taken @ 5% on a yearly basis.

4.2. CAPACITY, UTILIZATION, PRODUCTION & OUTPUT

COMPUTATION OF PRODUCTION OF ROASTED PEANUTS

Items to be Manufactured

Roasted Peanuts

Machine capacity Per hour	100	Kg
Total working Hours	8	
Machine capacity Per Day	800	Kg
Working days in a month	25	Days
Working days per annum	300	
Wastage Considered	5%	
Raw material requirement	240000	Kg
Final Output per annum after wastage	228000	Kg
Final Product to be packed in 1 kg Packet		
Number of Cans per annum	228000	1 Kg Packet

Production of Roasted Peanuts

Production	Capacity	KG
1st year	50%	1,14,000
2nd year	55%	1,25,400
3rd year	60%	1,36,800
4th year	65%	1,48,200
5th year	70%	1,59,600




Raw Material Cost			
Year	Capacity Utilisation	Rate (per Kg)	Amount (Rs. in lacs)
1st year	50%	80.00	96.00
2nd year	55%	84.00	110.88
3rd year	60%	88.00	126.72
4th year	65%	92.00	143.52
5th year	70%	97.00	162.96



COMPUTATION OF SALE					
Particulars	1st year	2nd year	3rd year	4th year	5th year
Op Stock	-	3,800	4,180	4,560	4,940
Production	1,14,000	1,25,400	1,36,800	1,48,200	1,59,600
Less : Closing Stock	3,800	4,180	4,560	4,940	5,320
Net Sale	1,10,200	1,25,020	1,36,420	1,47,820	1,59,220
Sale price per packet	120.00	126.00	132.00	139.00	146.00
Sales (in Lacs)	132.24	157.53	180.07	205.47	232.46

4.3. PREMISES/INFRASTRUCTURE

The approximate total area required for complete factory setup is 2000-2500 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
Separator and Peeling Machine	<p>This machine is specially designed for removing the red skin coat of the peanuts and making the peanuts taste much savory. It keeps the peanuts kernels as integral as possible.</p>	
Roasting/ Flavoring Machine	<p>Nuts Roasting Machine uses the state of art technology. It blows hot air into the nuts to be roasted. This method keeps the aroma fresh and the discoloring due to heat is avoided. Air roasted will taste better than flame roasted.</p>	
Cutting Machine	<p>Cutting machine is designed to chop roasted peanut into different size pieces.</p>	

<p>Packing, Filling and Sealing Machine</p>	<p>This Machine is used for packaging the roasted peanuts in the desired quantity.</p>	
<p>Material handling and other Equipments</p>	<p>These are set of equipments which are used in various supporting roles in various operations of plant.</p>	

Machine	Unit	Rate	Price
Separator and Peeling Machine	1	280000	280000
Roasting/ Flavoring Machine(Capacity- 100-150 kg/hr)	1	370000	370000
Cutting Machine	1	140000	140000
Packing, Filling and Sealing Machine	1	230000	230000
Material handling and other equipments (Bins, trolley, conveyor, weighing balance, pumps, etc.)	-	350000	350000

Note: Approx. Total Machinery cost shall be Rs 13.70 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	13.70
Miscellaneous Assets	2.50
Working capital	7.78
Total	23.98

4.7. MEANS OF FINANCE

MEANS OF FINANCE	
PARTICULARS	AMOUNT
Own Contribution (min 10%)	2.39
Subsidy @35%(Max. Rs 10 Lac)	5.67
Term Loan @ 55%	8.91
Working Capital (Bank Finance)	7.00
Total	23.98

4.8. TERM LOAN: Term loan of Rs. 8.91 Lakh is required for project cost of Rs. 23.98 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	-	8.91	8.91	-	-	8.91
	2nd month	8.91	-	8.91	0.08	-	8.91
	3rd month	8.91	-	8.91	0.08	-	8.91
	4th month	8.91	-	8.91	0.08		8.91
	5th month	8.91	-	8.91	0.08		8.91
	6th month	8.91	-	8.91	0.08		8.91
	7th month	8.91	-	8.91	0.08	0.17	8.75
	8th month	8.75	-	8.75	0.08	0.17	8.58
	9th month	8.58	-	8.58	0.08	0.17	8.42
	10th month	8.42	-	8.42	0.08	0.17	8.25
	11th month	8.25	-	8.25	0.08	0.17	8.09
	12th month	8.09	-	8.09	0.07	0.17	7.92
					0.88	0.99	
2nd	Opening Balance						
	1st month	7.92	-	7.92	0.07	0.17	7.76
	2nd month	7.76	-	7.76	0.07	0.17	7.59

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	3rd month	7.59	-	7.59	0.07	0.17	7.43
	4th month	7.43	-	7.43	0.07	0.17	7.26
	5th month	7.26	-	7.26	0.07	0.17	7.10
	6th month	7.10	-	7.10	0.07	0.17	6.93
	7th month	6.93	-	6.93	0.06	0.17	6.77
	8th month	6.77	-	6.77	0.06	0.17	6.60
	9th month	6.60	-	6.60	0.06	0.17	6.44
	10th month	6.44	-	6.44	0.06	0.17	6.27
	11th month	6.27	-	6.27	0.06	0.17	6.11
	12th month	6.11	-	6.11	0.06	0.17	5.94
					0.77	1.98	
3rd	Opening Balance						
	1st month	5.94	-	5.94	0.05	0.17	5.78
	2nd month	5.78	-	5.78	0.05	0.17	5.61
	3rd month	5.61	-	5.61	0.05	0.17	5.45
	4th month	5.45	-	5.45	0.05	0.17	5.28
	5th month	5.28	-	5.28	0.05	0.17	5.12
	6th month	5.12	-	5.12	0.05	0.17	4.95
	7th month	4.95	-	4.95	0.05	0.17	4.79
	8th month	4.79	-	4.79	0.04	0.17	4.62
	9th month	4.62	-	4.62	0.04	0.17	4.46
	10th month	4.46	-	4.46	0.04	0.17	4.29
	11th month	4.29	-	4.29	0.04	0.17	4.13
	12th month	4.13	-	4.13	0.04	0.17	3.96

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				0.55	1.98	
4th	Opening Balance					
	1st month	3.96	-	3.96	0.04	3.80
	2nd month	3.80	-	3.80	0.03	3.63
	3rd month	3.63	-	3.63	0.03	3.47
	4th month	3.47	-	3.47	0.03	3.30
	5th month	3.30	-	3.30	0.03	3.14
	6th month	3.14	-	3.14	0.03	2.97
	7th month	2.97	-	2.97	0.03	2.81
	8th month	2.81	-	2.81	0.03	2.64
	9th month	2.64	-	2.64	0.02	2.48
	10th month	2.48	-	2.48	0.02	2.31
	11th month	2.31	-	2.31	0.02	2.15
	12th month	2.15	-	2.15	0.02	1.98
				0.34	1.98	
5th	Opening Balance					
	1st month	1.98	-	1.98	0.02	1.82
	2nd month	1.82	-	1.82	0.02	1.65
	3rd month	1.65	-	1.65	0.02	1.49
	4th month	1.49	-	1.49	0.01	1.32
	5th month	1.32	-	1.32	0.01	1.16
	6th month	1.16	-	1.16	0.01	0.99
	7th month	0.99	-	0.99	0.01	0.83
	8th month	0.83	-	0.83	0.01	0.66
	9th month	0.66	-		0.01	0.50

			0.66			
10th month	0.50	-	0.50	0.00	0.17	0.33
11th month	0.33	-	0.33	0.00	0.17	0.17
12th month	0.17	-	0.17	0.00	0.17	-
				0.12	1.98	
DOOR TO DOOR MORATORIUM PERIOD	60	MONTHS				
	6	MONTHS				
REPAYMENT PERIOD	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	
Finished Goods						
	4.03	4.62	5.26	5.96	6.70	
Raw Material						
	3.20	3.70	4.22	4.78	5.43	
Closing Stock	7.23	8.31	9.49	10.74	12.14	

COMPUTATION OF WORKING CAPITAL REQUIREMENT						
TRADITIONAL METHOD						(in Lacs)
Particulars	Amount	Own Margin		Bank Finance		
Finished Goods & Raw Material	7.23					
Less : Creditors	2.24					
Paid stock	4.99	10%	0.50	90%	4.49	
Sundry Debtors	3.09	10%	0.31	90%	2.78	
	8.08		0.81		7.27	
MPBF						7.27
WORKING CAPITAL LIMIT DEMAND (from Bank)						7.00
Working Capital Margin						0.78

4.11. SALARY & WAGES

<u>BREAK UP OF LABOUR CHARGES</u>			
Particulars	Wages Rs. per Month	No of Employees	Total Salary
Plant Operator	15,000	2	30,000
Supervisor	18,000	1	18,000
Skilled (in thousand rupees)	12,000	3	36,000
Unskilled (in thousand rupees)	8,500	3	25,500
Total salary per month			1,09,500
Total annual labour charges	(in lacs)		13.14

<u>BREAK UP OF STAFF SALARY CHARGES</u>			
Particulars	Salary Rs. per Month	No of Employees	Total Salary
Administrative Staff	6,000	3	18,000
Manager	20,000	1	20,000
Accountant	15,000	1	15,000
Total salary per month			53,000
Total annual Staff charges	(in lacs)		6.36

4.12 POWER REQUIREMENT

Utility Charges (per month)		
Particulars	value	Description
Power connection required		12 KWH
consumption per day		96 units
Consumption per month	2,400 units	
Rate per Unit	10 Rs.	
power Bill per month	24,000 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	13.70	2.50	16.20
Total	13.70	2.50	16.20
Less : Depreciation	2.06	0.25	2.31
WDV at end of Year	11.65	2.25	13.90
Additions During The Year	-	-	-
Total	11.65	2.25	13.90
Less : Depreciation	1.75	0.23	1.97
WDV at end of Year	9.90	2.03	11.92
Additions During The Year	-	-	-
Total	9.90	2.03	11.92
Less : Depreciation	1.48	0.20	1.69
WDV at end of Year	8.41	1.82	10.24
Additions During The Year	-	-	-
Total	8.41	1.82	10.24
Less : Depreciation	1.26	0.18	1.44
WDV at end of Year	7.15	1.64	8.79
Additions During The Year	-	-	-
Total	7.15	1.64	8.79
Less : Depreciation	1.07	0.16	1.24
WDV at end of Year	6.08	1.48	7.55

4.14. REPAIR & MAINTENANCE: Repair & Maintenance is 3 % of Gross Sale.

4.15. PROJECTIONS OF PROFITABILITY ANALYSIS

<u>PROJECTED PROFITABILITY STATEMENT</u>					
(in Lacs)					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Capacity Utilisation %	50%	55%	60%	65%	70%
<u>SALES</u>					
Gross Sale					
Roasted Peanuts	132.24	157.53	180.07	205.47	232.46
Total	132.24	157.53	180.07	205.47	232.46
<u>COST OF SALES</u>					
Raw Material Consumed	96.00	110.88	126.72	143.52	162.96
Electricity Expenses	2.88	3.31	3.81	4.38	4.82
Depreciation	2.31	1.97	1.69	1.44	1.24
Wages & labour	13.14	14.45	16.62	19.12	20.45
Repair & maintenance	3.97	4.73	5.40	6.16	6.97
Packaging	2.64	3.15	3.60	4.11	4.65
Cost of Production	120.94	138.49	157.84	178.73	201.09
Add: Opening Stock /WIP	-	4.03	4.62	5.26	5.96
Less: Closing Stock /WIP	4.03	4.62	5.26	5.96	6.70
Cost of Sales	116.91	137.91	157.20	178.04	200.35
GROSS PROFIT	15.33	19.62	22.88	27.43	32.12
	11.60%	12.45%	12.70%	13.35%	13.82%
Salary to Staff	6.36	7.06	8.12	9.34	10.74
Interest on Term Loan	0.88	0.77	0.55	0.34	0.12
Interest on working Capital	0.77	0.77	0.77	0.77	0.77
Rent	3.60	3.96	4.36	4.79	5.27
selling & adm exp	2.38	3.94	3.60	4.11	4.65
TOTAL	13.99	16.50	17.40	19.34	21.54
NET PROFIT	1.35	3.12	5.48	8.09	10.57
	1.02%	1.98%	3.04%	3.94%	4.55%
Taxation	-	-	0.22	0.74	1.30
PROFIT (After Tax)	1.35	3.12	5.26	7.35	9.27

4.16. BREAK EVEN POINT ANALYSIS

BREAK EVEN POINT ANALYSIS					
Year	I	II	III	IV	V
Net Sales & Other Income	132.24	157.53	180.07	205.47	232.46
Less : Op. WIP Goods	-	4.03	4.62	5.26	5.96
Add : Cl. WIP Goods	4.03	4.62	5.26	5.96	6.70
Total Sales	136.27	158.11	180.72	206.17	233.21
Variable & Semi Variable Exp.					
Raw Material Consumed	96.00	110.88	126.72	143.52	162.96
Electricity Exp/Coal Consumption at 85%	2.45	2.82	3.24	3.72	4.10
Wages & Salary at 60%	11.70	12.91	14.84	17.07	18.71
Selling & administrative Expenses 80%	1.90	3.15	2.88	3.29	3.72
Interest on working Capital	0.77	0.77	0.77	0.77	0.77
Repair & maintenance	3.97	4.73	5.40	6.16	6.97
Packaging	2.64	3.15	3.60	4.11	4.65
Total Variable & Semi Variable Exp	119.43	138.40	157.46	178.65	201.88
Contribution	16.84	19.71	23.26	27.52	31.32
Fixed & Semi Fixed Expenses					
Electricity Exp/Coal Consumption at 15%	0.43	0.50	0.57	0.66	0.72
Wages & Salary at 40%	7.80	8.61	9.90	11.38	12.48
Interest on Term Loan	0.88	0.77	0.55	0.34	0.12
Depreciation	2.31	1.97	1.69	1.44	1.24
Selling & administrative Expenses 20%	0.48	0.79	0.72	0.82	0.93
Rent	3.60	3.96	4.36	4.79	5.27
Total Fixed Expenses	15.49	16.59	17.78	19.43	20.75
Capacity Utilization	50%	55%	60%	65%	70%
OPERATING PROFIT	1.35	3.12	5.48	8.09	10.57
BREAK EVEN POINT	46%	46%	46%	46%	46%
BREAK EVEN SALES	125.36	133.10	138.16	145.56	154.51

4.17. PROJECTED BALANCE SHEET

<u>PROJECTED BALANCE SHEET</u>						(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	
<u>Liabilities</u>						
Capital						
opening balance		8.01	9.32	11.08	13.43	
Add:- Own Capital	2.39					
Add:- Retained Profit	1.35	3.12	5.26	7.35	9.27	
Less:- Drawings	1.40	1.80	3.50	5.00	7.00	
Subsidy/grant	5.67					
Closing Balance	8.01	9.32	11.08	13.43	15.70	
Term Loan	7.92	5.94	3.96	1.98	-	
Working Capital Limit	7.00	7.00	7.00	7.00	7.00	
Sundry Creditors	2.24	2.59	2.96	3.35	3.80	
Provisions & Other Liab	0.40	0.50	0.60	0.72	0.86	
TOTAL :	25.57	25.35	25.60	26.48	27.37	
<u>Assets</u>						
Fixed Assets (Gross)	16.20	16.20	16.20	16.20	16.20	
Gross Dep.	2.31	4.28	5.96	7.41	8.65	
Net Fixed Assets	13.90	11.92	10.24	8.79	7.55	
Current Assets						
Sundry Debtors	3.09	3.68	4.20	4.79	5.42	
Stock in Hand	7.23	8.31	9.49	10.74	12.14	
Cash and Bank	1.35	1.44	1.67	2.15	2.25	
TOTAL :	25.57	25.35	25.60	26.48	27.37	

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	2.39					
Net Profit	1.35	3.12	5.48	8.09	10.57	
Depriciation & Exp. W/off	2.31	1.97	1.69	1.44	1.24	
Increase in Cash Credit	7.00	-	-	-	-	
Increase In Term Loan	8.91	-	-	-	-	
Increase in Creditors	2.24	0.35	0.37	0.39	0.45	
Increase in Provisions & Oth lib	0.40	0.10	0.10	0.12	0.14	
Sunsidy/grant	5.67					
TOTAL :	30.26	5.54	7.63	10.05	12.40	
<u>APPLICATION OF FUND</u>						
Increase in Fixed Assets	16.20					
Increase in Stock	7.23	1.08	1.17	1.26	1.39	
Increase in Debtors	3.09	0.59	0.53	0.59	0.63	
Repayment of Term Loan	0.99	1.98	1.98	1.98	1.98	
Drawings	1.40	1.80	3.50	5.00	7.00	
Taxation	-	-	0.22	0.74	1.30	
TOTAL :	28.91	5.45	7.40	9.57	12.30	
Opening Cash & Bank Balance	-	1.35	1.44	1.67	2.15	
Add : Surplus	1.35	0.09	0.24	0.47	0.11	
Closing Cash & Bank Balance	1.35	1.44	1.67	2.15	2.25	

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	3.65	5.09	6.94	8.79	10.51
Interest on Term Loan	0.88	0.77	0.55	0.34	0.12
Total	4.53	5.86	7.50	9.13	10.63
<u>REPAYMENT</u>					
Instalment of Term Loan	0.99	1.98	1.98	1.98	1.98
Interest on Term Loan	0.88	0.77	0.55	0.34	0.12
Total	1.87	2.75	2.53	2.32	2.10
DEBT SERVICE COVERAGE RATIO	2.43	2.13	2.96	3.94	5.07
AVERAGE D.S.C.R.	3.30				