

DETAILED PROJECT REPORT MAIZE FLOUR MILL UNIT UNDER PMFME SCHEME



National Institute of Food Technology Entrepreneurship and Management

Ministry of Food Processing Industries

Plot No.97, Sector-56, HSIIDC, Industrial Estate, Kundli, Sonipat, Haryana-131028

Website: http://www.niftem.ac.in

Email: pmfmecell@niftem.ac.in

Call: 0130-2281089

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1. Name of the proposed project	:	Maize Flour Mill Unit
2. Nature of proposed project	:	Proprietorship/Company/Partnership
3. Proposed project capacity	:	432000 Kg/annum(55,58,60,62,&65% capacity utilization in 1 st to 5 th Year respectively)
4. Raw materials	:	Maize Corn
5. Major product outputs	:	Maize Flour
6. Total project cost	:	Rs.21.10 Lakh
Land development, building & Civil Construction	:	Nil
Machinery and equipment's	:	Rs.10.82 Lakh
Miscellaneous Fixed Assets	:	Rs.2.50 Lakh
Working capital	:	Rs.7.78 Lakh
8. Means of Finance		
Subsidy (max 10lakhs)	:	Rs.4.66 Lakh
Promoter's contribution (min10%)	:	Rs.2.10 Lakh
Term loan	:	Rs.7.33 Lakh
Working Capital Requirement	:	Rs.7.00 Lakh
9. Profit after Depreciation, Interest & Tax		
• 1 st year	:	Rs.1.15 Lakh
• 2 nd year	:	Rs.2.54 Lakh
• 3 rd year	:	Rs.3.59 Lakh
• 4 th year	:	Rs.4.72 Lakh
• 5th year	:	Rs.6.68 Lakh
11. Average DSCR	:	2.98
12. Term loan repayment	:	5 Years with 6 months grace period

2. ABOUT THE PRODUCT

2.1. PRODUCT INTRODUCTION:

Maize is one of the top three important crops in India, ranking after rice and wheat. It is widely applied in food process, diet cooking, feed products and industrial fuel raw material. The development of maize processing has a direct contribution to the economy in India.

Maize processing industry in India is largely influenced by the price of maize, the consumption and its supply. With the increasing use for alcohol production, the consumption of maize will go over its supply. The agricultural department in India predicts that the price of maize may continue to rise in the short terms. The increasing needs of maize industrial use largely encourages the development of maize processing industry in India, and meanwhile the price of downstream products such as feeding products, and maize flour product. It is profitable to invest a maize process factory in the long terms. The capital investment increase keeps a continuous increase in the past three years. Meanwhile, the increase of maize price brings out a negligible raise cost of maize mill owner. A small-scale maize flour mill factory owner said that rising maize flour price driven by the raw material cost brings out a large profit and a series of potential problem. For the maize processing factory owners, keeping an eye on the maize price in India and global market and government export-import policy is an important measure to deal with the potential risk. Maize processing in India is correlated with the price of raw material, the global market situation. The continuous rise of maize will lead to a great change in a series of maize processing industry such as maize flour mill factory, feed product, industrial fuel and poultry feed.

2.2 MARKET POTENTIAL:

Maize Flour market is estimated to be valued at 1.37 Billion in 2018 and is estimated to grow at a CAGR of 3.9% during the forecast period 2019–2024. India Corn Starch market growth can be attributed to the easy availability of corn and its wide range of applications in various industries such as food and beverage, pharmaceutical, animal feed, textile industry, paper industry, and others. The Food and Beverage industry dominated the application segment of India Corn Starch Market. The rapid growth of population, as well as rapid industrialization, have propelled the growth of India corn starch market.

2.3 RAW MATERIAL DESCRIPTION:

The only major raw material required for Maize Flour Production is Maize Corn.

3. PROCESS FLOW CHART

> Procurement

Dried maize kernels are procured from appropriate vendors and stored in raw material warehouse for normal plant operation.

> Cleaning and conditioning

Cleaning and conditioning of the maize is an important step in the process and refers to the removal of foreign material and all that is not maize kernels from the to-be milled grain that lowers the quality of the product such as husk, straw, dust, sand, and everything too big or too small and lighter than a maize kernel. It also refers to the removal of other seeds, and material harmful to the milling equipment such as metal and stones.

Cleaning Process involves an array of cleaning machine vibro separator, aspirators, destoners, magnetic separators etc. Each of this machine has its own contribution to cleaning effect.

Conditioning refers to the addition of moisture to the maize to allow the bran to be peeled off in flakes during milling with plate or roller mills, allowing easy separation in a sifter and, most importantly, to add mass to the meal

> Milling and sifting

Roller type flour mills are used to grinding the grain, the different roller mills single roller mill, double roller mill and pneumatic roller mill, the mill adopted defines quality of flour produced. In a complete maize milling plant, there are several roller mill that work together, they have different functions, the first mill mainly primary grinding & separation of the hard outer covering, the second and third will grinding the maize into granular size, and meanwhile to get some super fine flour, and the granular sized product will go to the next mill to continue grinding.

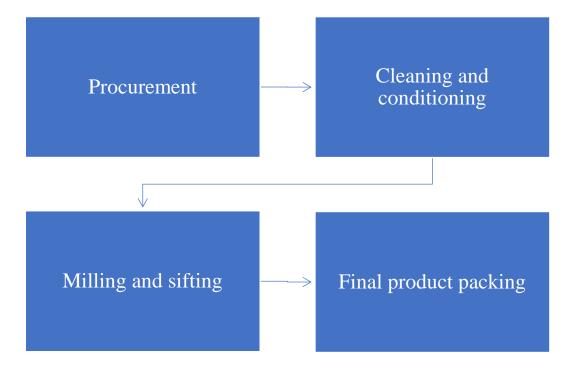
After each successive grinding double bin sifter or square plan sifter are used to sift the meal from the miller, classification and sifting more super flour. In general, the sifting is used to separate the flour and bran, also separate large size and small size to ensure flour quality.

This process of grinding, sifting & blending flour is repeated until required quality flour is obtained.

> Final product packing

After the maize is processed, it will come out in different final products like flour and grits. They are different from their granular size. For the packing, a Flour Packing Machine is adopted, and the flour is packed into 5 kg, 10 kg, 25 kg or 50 kg bags.

FLOW CHART OF MAIZE FLOUR MANUFACTURING PROCESS



4. ECONOMICS OF THE PROJECT

4.1. BASIS & PRESUMPTIONS

- 1. Production Capacity of Maize flour is 200 kg per hour. First year, Capacity has been taken @ 55%.
- 2. Working shift of 8 hours per day has been considered.
- 3. Raw Material stock is for 15 days and Finished goods Closing Stock has been taken for 15 days.
- 4. Credit period to Sundry Debtors has been given for 6 days.
- 5. Credit period by the Sundry Creditors has been provided for 10 days.
- 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 25 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 MAIZE FLOUR							
Items to be Manufactured							
Maize Flour							
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	Kg					

Production of Maize Flour		
Production	Capacity	KG
1st year	55%	2,37,600
2nd year	58%	2,50,560
3rd year	60%	2,59,200
4th year	62%	2,67,840
5th year	65%	2,80,800

Raw Material Cost			
Year	Capacity	Rate	Amount
	Utilisation	(per Kg)	(Rs. in lacs)
1st year	55%	22.00	58.08
2nd year	58%	23.00	64.03
3rd year	60%	24.00	69.12
4th year	62%	25.00	74.40
5th year	65%	26.00	81.12

COMPUTATION OF SALE					
Particulars	1st year	2nd year	3rd year	4th year	5th year
Op Stock	-	11,880	12,528	12,960	13,392
Production	2,37,600	2,50,560	2,59,200	2,67,840	2,80,800
Less : Closing Stock	11,880	12,528	12,960	13,392	14,040
Net Sale	2,25,720	2,49,912	2,58,768	2,67,408	2,80,152
sale price per packet	48.00	50.00	53.00	56.00	59.00
Sales (in Lacs)	108.35	124.96	137.15	149.75	165.29

4.3. PREMISES/INFRASTRUCTURE

The approximate total area required for complete factory setup is 4000-5000 Sq. ft. for smooth production including storage area. It is expected that the premises will be on rental.

4.4. MACHINERY & EQUIPMENTS

Vibrating	It's composed of a vibrating sieve, powered by	
Separator	an exciter which is in turn is powered by an appropriate motor; which is used to remove most of the dirt & large impurities from given grain.	
De-stoner	It's a machine which is used to remove stones from the given grain, widely used in various grain mills in cleaning section.	
Disc Separator	It's a separator class machine, generally used to remove foreign grains from required grain efficiently.	

	PM FME- Detailed Project Report of Maize Flour Mill Unit				
Magnetic	It's a type of separator which is used to magnetic	7			
Separator	impurities from given product using powerful electromagnets, used in wide range of industries for separation.				
Aspirator	It's a more fine-tuned separator designed to remove finer impurities like remaining dirt, similar sized impurities, leaves etc.				
Heavy duty	It basically a grinder class machine, which may				
Pulveriser	employ any possible grinding arrangement to				
Mill	achieve, required grinding as per product to be grinded.				
Flour Sifter	It's basically an industrial version of the sieve				
Machine	used to sieve out, large fibers, particles etc, to				
	achieve required particle size in flour.				

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Packet	It's a simple packaging machine, designed to fill	İ
Filling	the given food grade plastic material's continuous pouch with required product after	
&Packagin	sealing one end & after filling sealing the other	
g Machine	end also to generate packet of product.	



Machine	Unit	Rate	Price
Vibrating Separator	1	1,25,000	1,25,000
(200 kg/hr)			
De-stoner (300 kg/hr)	1	52,000	52,000
Disc Separator (200 kg/hr)	1	1,70,000	1,70,000
Magnetic Separator	1	80,000	80,000
Aspirator	1	45,000	45,000
Heavy duty Pulveriser Mill (250 kg/hr)	1	1,65,000	1,65,000
Flour Sifter Machine (300 kg/hr)	1	95,000	95,000
Packet Filling &Packaging Machine (15 pouches per minute)	1	3,50,000	3,50,000

Note: Cost of the machinery is approx. Rs.10.82 Lakhs excluding GST and other transportation cost.

4.5. MISCELLANEOUS FIXED ASSETS

- Electricity connection
- Other equipment's & fixture

4.6. TOTAL COST OF PROJECT

COST OF	PROJECT
	(in Lacs)
PARTICULARS	Amount
Land & Building	Owned/Rented
Plant & Machinery	10.82
Miscellaneous Assets	2.50
Working capital	7.78
Total	21.10

4.7. MEANS OF FINANCE

MEANS OF FINANCE			
PARTICULARS	AMOUNT		
Own Contribution (min 10%)	2.10		
Subsidy @35%(Max. Rs 10 Lac)	4.66		
Term Loan @ 55%	7.33		
Working Capital (Bank Finance)	7.00		
Total	21.10		

4.8. TERM LOAN: Term loan of Rs.7.33 Lakh is required for project cost of Rs.21.10 Lakh.

4.9. TERM LOAN REPAYMENT & INTEREST SCHEDULE

	REF	PAYMENT	SCHEDUL	E OF TI	ERM LOA	N	
						Interest	11.00%
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Closing Balance
1st	Opening Balance						
	1st month	-	7.33	7.33	-	-	7.33
	2nd month	7.33	-	7.33	0.07	-	7.33
	3rd month	7.33	-	7.33	0.07	-	7.33
	4th month	7.33	-	7.33	0.07		7.33
	5th month	7.33	-	7.33	0.07		7.33
	6th month	7.33	-	7.33	0.07		7.33
	7th month	7.33	-	7.33	0.07	0.14	7.19
	8th month	7.19	-	7.19	0.07	0.14	7.05
	9th month	7.05	-	7.05	0.06	0.14	6.92
	10th month	6.92	-	6.92	0.06	0.14	6.78
	11th month	6.78	-	6.78	0.06	0.14	6.65
	12th month	6.65	-	6.65	0.06	0.14	6.51
					0.72	0.81	
2nd	Opening Balance						
	1st month	6.51	-	6.51	0.06	0.14	6.38
	2nd month	6.38	-	6.38	0.06	0.14	6.24
	3rd month	6.24	-	6.24	0.06	0.14	6.11
	4th month	6.11	-	6.11	0.06	0.14	5.97
	5th month	5.97	-	5.97	0.05	0.14	5.83

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	6th month	5.83	-	5.83	0.05	0.14	5.70
	7th month	5.70	-	5.70	0.05	0.14	5.56
	8th month	5.56	-	5.56	0.05	0.14	5.43
	9th month	5.43	-	5.43	0.05	0.14	5.29
	10th month	5.29	-	5.29	0.05	0.14	5.16
	11th month	5.16	-	5.16	0.05	0.14	5.02
	12th month	5.02	_	5.02	0.05	0.14	4.88
					0.63	1.63	
3rd	Opening Balance						
	1st month	4.88	-	4.88	0.04	0.14	4.75
	2nd month	4.75	-	4.75	0.04	0.14	4.61
	3rd month	4.61	-	4.61	0.04	0.14	4.48
	4th month	4.48	-	4.48	0.04	0.14	4.34
	5th month	4.34	-	4.34	0.04	0.14	4.21
	6th month	4.21	-	4.21	0.04	0.14	4.07
	7th month	4.07	-	4.07	0.04	0.14	3.93
	8th month	3.93	-	3.93	0.04	0.14	3.80
	9th month	3.80	-	3.80	0.03	0.14	3.66
	10th month	3.66	-	3.66	0.03	0.14	3.53
	11th month	3.53	-	3.53	0.03	0.14	3.39
	12th month	3.39		3.39	0.03	0.14	3.26
					0.46	1.63	
4th	Opening Balance						
	1st month	3.26	-	3.26	0.03	0.14	3.12
	2nd month	3.12	-	3.12	0.03	0.14	2.98

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	3rd month	2.98	-	2.98	0.03	0.14	2.85
	4th month	2.85	-	2.85	0.03	0.14	2.71
	5th month	2.71	-	2.71	0.02	0.14	2.58
	6th month	2.58	-	2.58	0.02	0.14	2.44
	7th month	2.44	-	2.44	0.02	0.14	2.31
	8th month	2.31	-	2.31	0.02	0.14	2.17
	9th month	2.17	-	2.17	0.02	0.14	2.04
	10th month	2.04	-	2.04	0.02	0.14	1.90
	11th month	1.90	-	1.90	0.02	0.14	1.76
	12th month	1.76	-	1.76	0.02	0.14	1.63
5th	Opening Balance				0.28	1.63	
		1.62		1.62	0.01	0.14	1 40
	1st month	1.63	-	1.63	0.01	0.14	1.49
	2nd month	1.49	-	1.49	0.01	0.14	1.36
	3rd month	1.36	-	1.36	0.01	0.14	1.22
	4th month	1.22	-	1.22	0.01	0.14	1.09
	5th month	1.09	-	1.09	0.01	0.14	0.95
	6th month	0.95	-	0.95	0.01	0.14	0.81
	7th month	0.81	-	0.81	0.01	0.14	0.68
	8th month	0.68	-	0.68	0.01	0.14	0.54
	9th month	0.54	-	0.54	0.00	0.14	0.41
	10th month	0.41	-	0.41	0.00	0.14	0.27
	11th month	0.27	-	0.27	0.00	0.14	0.14
	12th month	0.14	_	0.14	0.00	0.14	
					0.10	1.63	

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DOOR TO DOOR MORATORIUM	60	MONTHS
PERIOD	6	MONTHS
REPAYMENT PERIOD	54	MONTHS

4.10. WORKING CAPITAL CALCULATIONS

COMPUTATION OF	APITAL	(in Lacs)			
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Finished Goods					
	4.80	5.25	5.71	6.19	6.82
Raw Material					
_	2.90	3.20	3.46	3.72	4.06
Closing Stock	7.70	8.45	9.17	9.91	10.88

COMPUTATION OF WORKING CAPITAL REQUIREMENT						
TRADITIONAL METHOD				((in Lacs)	
Particulars	Amount	Own	Margin	Bank	Finance	
Finished Goods & Raw Material	7.70					
Less: Creditors	1.94					
Paid stock	5.77	10%	0.58	90%	5.19	
Sundry Debtors	2.17	10%	0.22	90%	1.95	
	7.93		0.79		7.14	
MPBF	MPBF					
WORKING CAPITAL LIMIT DEM	MAND (from B	ank)			7.00	
Working Capital Margin					0.78	

4.11. SALARY & WAGES

BREAK UP OF LABOUR CHAI	RGES		
Particulars	Wages	No of	Total
	Rs. per Month	Employees	Salary
Supervisor	20,000	1	20,000
Plant Operator	20,000	1	20,000
Skilled (in thousand rupees)	15,000	4	60,000
Unskilled (in thousand rupees)	8,500	8	68,000
Total salary per month			1,68,000
Total annual labour charges	(in lacs)		20.16

BREAK UP OF STAFF SALARY CHARGES						
Particulars	Salary Rs. per Month	No of Employees	Total Salary			
Administrative Staff	10,000	2	20,000			
Manger	20,000	1	20,000			
Accountant	15,000	1	15,000			
Total salary per month 55,000						
Total annual Staff charges	(in lacs)		6.60			

4.12 POWER REQUIREMENT

Utility Charges (per month)						
Particulars	value	Description				
Power connection required	25	KWH				
consumption per day	200	units				
Consumption per month	5,000	units				
Rate per Unit	10	Rs.				
power Bill per month	50,000	Rs.				

4.13. DEPRECIATION CALCULATION

COMPLICATION OF DEDI	DECLATION		(in
COMPUTATION OF DEP	RECIATION	Miss.	Lacs)
Description	Plant & Machinery	Assets	TOTAL
Rate of Depreciation	15.00%	10.00%	
Opening Balance	-	-	-
Addition	10.82	2.50	13.32
Total	10.82	2.50	13.32
Less: Depreciation	1.62	0.25	1.87
WDV at end of Year	9.20	2.25	11.45
Additions During The Year	-	-	-
Total	9.20	2.25	11.45
Less: Depreciation	1.38	0.23	1.60
WDV at end of Year	7.82	2.03	9.84
Additions During The Year	-	-	-
Total	7.82	2.03	9.84
Less: Depreciation	1.17	0.20	1.38
WDV at end of Year	6.64	1.82	8.47
Additions During The Year	-	-	-
Total	6.64	1.82	8.47
Less: Depreciation	1.00	0.18	1.18
WDV at end of Year	5.65	1.64	7.29
Additions During The Year	-	-	-
Total	5.65	1.64	7.29
Less: Depreciation	0.85	0.16	1.01
WDV at end of Year	4.80	1.48	6.28

4.14. REPAIR & MAINTENANCE: Repair & Maintenance is 2.5% of Gross Sale.

4.15. PROJECTIONS OF PROFITABILITY ANALYSIS

PROJECTED PROFITABIL	ITY STATE	<u>EMENT</u>			(in Lacs)
		2nd	3rd	4th	
PARTICULARS	1st year	year	year	year	5th year
Capacity Utilisation %	55%	58%	60%	62%	65%
SALES					
Gross Sale					
Maize Flour	108.35	124.96	137.15	149.75	165.29
Total	108.35	124.96	137.15	149.75	165.29
COST OF SALES					
Raw Material Consumed	58.08	64.03	69.12	74.40	81.12
Electricity Expenses	6.00	6.90	7.94	9.13	10.04
Depreciation	1.87	1.60	1.38	1.18	1.01
Wages & labour	20.16	23.18	26.89	30.93	34.33
Repair & maintenance	2.71	3.12	3.43	3.74	4.13
Packaging	7.15	6.12	5.49	4.49	5.79
Cost of Production	95.97	104.97	114.24	123.87	136.42
Add: Opening Stock /WIP	-	4.80	5.25	5.71	6.19
Less: Closing Stock /WIP	4.80	5.25	5.71	6.19	6.82
Cost of Sales	91.17	104.52	113.77	123.39	135.79
GROSS PROFIT	17.17	20.44	23.37	26.36	29.50
	15.85%	16.36%	17.04%	17.60%	17.85%
Salary to Staff	6.60	7.66	9.34	10.74	11.82
Interest on Term Loan	0.72	0.63	0.46	0.28	0.10
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	4.33	4.87	4.80	4.94	4.30
TOTAL	16.02	17.89	19.72	21.52	22.25
NET PROFIT	1.15	2.54	3.65	4.84	7.25
	1.06%	2.04%	2.66%	3.23%	4.39%
Taxation	-	0.00	0.06	0.12	0.58
PROFIT (After Tax)	1.15	2.54	3.59	4.72	6.68

4.16. BREAK EVEN POINT ANALYSIS

BREAK EVEN POINT ANALYSIS					
Year	I	II	III	IV	V
Net Sales & Other Income	108.35	124.96	137.15	149.75	165.29
Less: Op. WIP Goods	-	4.80	5.25	5.71	6.19
Add: Cl. WIP Goods	4.80	5.25	5.71	6.19	6.82
Total Sales	113.14	125.41	137.61	150.23	165.92
Variable & Semi Variable Exp.					
Raw Material Consumed	58.08	64.03	69.12	74.40	81.12
Electricity Exp/Coal Consumption at					
85%	5.10	5.87	6.74	7.76	8.53
Wages & Salary at 60%	16.06	18.50	21.74	25.00	27.69
Selling & adminstrative Expenses 80%	3.47	3.90	3.84	3.95	3.44
Interest on working Capital	0.77	0.77	0.77	0.77	0.77
Repair & maintenance	2.71	3.12	3.43	3.74	4.13
Packaging	7.15	6.12	5.49	4.49	5.79
Total Variable & Semi Variable Exp	93.33	102.32	111.13	120.12	131.46
Contribution	19.81	23.09	26.48	30.11	34.45
Fixed & Semi Fixed Expenses	T				
Electricity Exp/Coal Consumption at	0.00	4.04			
15%	0.90	1.04	1.19	1.37	1.51
Wages & Salary at 40%	10.70	12.34	14.49	16.67	18.46
Interest on Term Loan	0.72	0.63	0.46	0.28	0.10
Depreciation	1.87	1.60	1.38	1.18	1.01
Selling & adminstrative Expenses 20%	0.87	0.97	0.96	0.99	0.86
Rent	3.60	3.96	4.36	4.79	5.27
Total Fixed Expenses	18.66	20.54	22.83	25.27	27.20
Capacity Utilization	55%	58%	60%	62%	65%
OPERATING PROFIT	1.15	2.54	3.65	4.84	7.25
BREAK EVEN POINT	52%	52%	52%	52%	51%
BREAK EVEN SALES	106.59	111.58	118.64	126.08	131.00

4.17. PROJECTED BALANCE SHEET

PROJECTED BALANCE SHEET						
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	
<u>Liabilities</u>						
~						
Capital						
opening balance		7.91	9.95	12.55	15.27	
Add:- Own Capital	2.10					
Add:- Retained Profit	1.15	2.54	3.59	4.72	6.68	
Less:- Drawings	-	0.50	1.00	2.00	3.00	
Subsidy/grant	4.66					
Closing Balance	7.91	9.95	12.55	15.27	18.95	
Term Loan	6.51	4.88	3.26	1.63	-	
Working Capital Limit	7.00	7.00	7.00	7.00	7.00	
Sundry Creditors	1.94	2.13	2.30	2.48	2.70	
Provisions & Other Liab	0.40	0.50	0.60	0.72	0.86	
TOTAL:	23.76	24.47	25.71	27.10	29.51	
Assets						
Fixed Assets (Gross)	13.32	13.32	13.32	13.32	13.32	
Gross Dep.	1.87	3.48	4.85	6.03	7.04	
Net Fixed Assets	11.45	9.84	8.47	7.29	6.28	
Current Assets						
Sundry Debtors	2.17	2.50	2.74	2.99	3.31	
Stock in Hand	7.70	8.45	9.17	9.91	10.88	
Cash and Bank	2.44	3.68	5.33	6.90	9.05	
TOTAL:	23.76	24.47	25.71	27.10	29.51	

4.18. CASH FLOW STATEMENT

PROJECTED CASH FLOW STATEMENT					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
SOURCES OF FUND	•	•	•		
Own Margin	2.10				
Net Profit	1.15	2.54	3.65	4.84	7.25
Depriciation & Exp. W/off	1.87	1.60	1.38	1.18	1.01
Increase in Cash Credit	7.00	-	-	-	-
Increase In Term Loan	7.33	_	_	_	-
Increase in Creditors	1.94	0.20	0.17	0.18	0.22
Increase in Provisions & Oth lib	0.40	0.10	0.10	0.12	0.14
Sunsidy/grant	4.66				
TOTAL:	26.44	4.45	5.30	6.32	8.63
APPLICATION OF FUND					
Increase in Fixed Assets	13.32				
Increase in Stock	7.70	0.75	0.72	0.75	0.96
Increase in Debtors	2.17	0.33	0.24	0.25	0.31
Repayment of Term Loan	0.81	1.63	1.63	1.63	1.63
Drawings	-	0.50	1.00	2.00	3.00
Taxation	-	0.00	0.06	0.12	0.58
TOTAL:	24.00	3.21	3.65	4.74	6.48
Opening Cash & Bank Balance	-	2.44	3.68	5.33	6.90
Add : Surplus	2.44	1.24	1.65	1.57	2.15
Closing Cash & Bank Balance	2.44	3.68	5.33	6.90	9.05

4.19. DEBT SERVICE COVERAGE RATIO

CALCULATION OF D.S.C.R					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
CASH ACCRUALS	3.02	4.15	4.97	5.90	7.69
Interest on Term Loan	0.72	0.63	0.46	0.28	0.10
Total	3.74	4.78	5.42	6.18	7.78
REPAYMENT					
Instalment of Term Loan	0.81	1.63	1.63	1.63	1.63
Interest on Term Loan	0.72	0.63	0.46	0.28	0.10
Total	1.53	2.26	2.08	1.90	1.73
DEBT SERVICE COVERAGE RATIO	2.44	2.11	2.60	3.25	4.51
AVERAGE D.S.C.R.				1	2.98