

DETAILED PROJECT REPORT CORN PUFF MAKING UNIT UNDER PMFME SCHEME



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1. PROJECT SUMMARY

1. Name of the proposed project	:	Corn Puff Making Unit
2. Nature of proposed project	:	Proprietorship/Company/Partnership
3. Proposed project capacity	:	120000 Kg/annum(60,65,70,75&80% capacity utilization in 1 st to 5 th Year respectively)
4. Raw material	:	Corn Meal, Salt, oil, spices and water.
5. Major product outputs	:	Corn Puff
6. Total project cost	:	Rs. 22.15 Lakh
Land development, building & Civil Construction	:	Nil
Machinery and equipment's	:	Rs. 14.82 Lakh
Miscellaneous Fixed Assets	:	Rs. 2.00 Lakh
Working capital	:	Rs. 5.33 Lakh
8. Means of Finance		
Subsidy (max 10lakhs)	:	Rs. 5.89 Lakh
Promoter's contribution (min10%)	:	Rs. 2.22 Lakh
Term loan	:	Rs. 9.25 Lakh
Working Capital Requirement	:	Rs. 4.80 Lakh
9. Profit after Depreciation, Interest & Tax		
• 1 st year	:	Rs. 2.07 Lakh
• 2 nd year	:	Rs. 3.59 Lakh
• 3 rd year	:	Rs. 5.24 Lakh
• 4 th year	:	Rs. 6.71 Lakh
• 5th year	:	Rs. 8.55 Lakh
11. Average DSCR	:	Rs. 3.21
12. Term loan repayment	:	5 Years with 6 months grace period

2. ABOUT THE PRODUCT

2.1. PRODUCT INTRODUCTION:

Puff corn or Corn puffs are puffed or extruded corn snacks made with Corn meal and baked. Products by the name of puff corn (instead of the more generic term corn puff) in particular can be made to look similar to popcorn, although the latter is made from whole grains.

Puff corn is an extruded corn snack which belongs in the snack group products made with corn grits, rice, wheat, or other cereals. Puff corn is often flavored with cheese, oil, Chili, Onion or garlic powder, and many other spices. Types of puff corn can vary between specific length, higher bulk density, lower lightness, higher redness, lower yellowness, higher hardness, and lower springiness, gumminess and chewiness when using different percentage of oat flour. Puffed corn snacks are tasty and affordable cereal-based food products

Benefits:

- ➤ Reduces the Risk of Breast Cancer
- ➤ Makes Teeth & Bones Strong
- ➤ Aids in Weight Loss
- Ensures a Healthy Digestive System.
- Great for Those Having Diabetes.

2.2. MARKET POTENTIAL:

Puffed food has a primary role in human consumption. Consumer demand is increasing for puffed food due to various health benefits such as weight loss, therefore increasing the market share of puffed food market. Increasing demand for flavor food products is expected to increase the puffed food market over the forecast period. Consumers believe in ready to eat products which have high nutrients like popcorns and Cheetos. The growing puffed market attributed to the shift in consumer demand for various flavors and nutritious food.

Puffed food is segmented by category type, application and region. By category, puffin comes in wheat, rice, sorghum and ragi. Puffed wheat is prepared wheat grains under pressure and the rapidly releasing pressure when the superheated grain expands, then grain is puffed. It is good copper, protein and iron. Puffed rice used in breakfast cereal and snack foods served as popular food street food. It is made by heating rice kernels under high pressure in the presence of steam. Puffed food is segmented by applications as bakery Industry and Snack Industry. The demand for corn puff is in urban as well as in rural areas too.

2.3. RAW MATERIAL DESCRIPTION:

Major raw materials that are used in corn puff making unit are:

- Corn Meal
- Salt
- Spices
- Oil
- Water

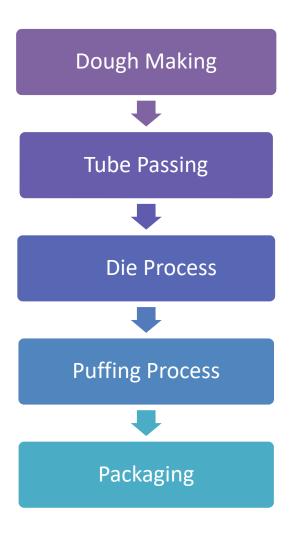
S.N.	Particulars	Rate
1	Corn Meal	Rs. 15-18/kg
2	Salt	Rs. 10-12/Kg
3	Spices	Rs. 150-180/kg
4	Oil	Rs. 100-120/Ltr

Average raw material cost per 50 gm packet of Corn Puff: Rs. 2.50-3.00

3. PROCESS FLOW CHART

Puff corn, much like other puffed products such as cereals and crisp breads are processed by Extrusion cooking through an extruder. This is a thermo dynamic process where the dough is passed through a tube and heated under a certain amount of pressure. The puff corn dough product is then forced through a narrow opening called a die, and as it gets released, the change in pressure and temperature causes the product to puff out, giving the texture and consistency of puff corn.

The different shapes and textures of puff corn are manipulated by the die at the end of the extruder and the type of extruder used. Specific types of grain size of the starch required during processing also depends on the snack type itself, for example; if the puff corn snack requires a fine structure with small pores an extruder with smaller granulation should be used whereas crispier puff corn would require larger granulation. The final product is then packed in different sizes (25gm, 50gm, etc.) and are sent for sale.



4. ECONOMICS OF THE PROJECT

4.1. BASIS & PRESUMPTIONS

- 1. Production Capacity of Corn Puff is 50 kg per hr. First year, Capacity has been taken @ 60%.
- 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 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 10 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 CORN PUFF					
Items to be Manufactured Corn Puff					
Machine capacity Per hour	50	Kg			
Total working Hours	8				
Machine capacity Per Day	400	Kg			
Working days in a month	25	Days			
Working days per annum	300				
Raw material requirement	120000	Kg			
Final Output per annum	120000	Kg			
Final Product to be packed in 50 gm packet					
Number of packets per annum	2400000	50 gm packet			

Production of Corn Puff		
Production	Capacity	KG
1st year	60%	14,40,000
2nd year	65%	15,60,000
3rd year	70%	16,80,000
4th year	75%	18,00,000
5th year	80%	19,20,000

Raw Material Cost Year	Capacity	Rate	Amount
	Utilisation	(per packet)	(Rs. in lacs)
1st year	60%	2.50	36.00
2nd year	65%	2.63	40.95
3rd year	70%	2.76	46.31
4th year	75%	2.89	52.09
5th year	80%	3.04	58.34

COMPUTATION O	F SALE				
Particulars	1st year	2nd year	3rd year	4th year	5th year
Op Stock	-	72,000	78,000	84,000	90,000
Production	14,40,000	15,60,000	16,80,000	18,00,000	19,20,000
Less: Closing Stock	72,000	78,000	84,000	90,000	96,000
Net Sale	13,68,000	15,54,000	16,74,000	17,94,000	19,14,000
Sale price per packet	5.00	5.25	5.51	5.79	6.08
Sales (in Lacs)	68.40	81.59	92.28	103.84	116.32

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.
Batch Mixer with Scr	This machine is designed for	
ew feeder	uniform blending of a wide	À
	variety of materials such as rice-	/
	corn grit. The ribbon blender	my/
	channels material from the	M
	hopper sides through the center	KEY
	resulting in quick, even blending	
	and easy material removal	
	through the center discharge	
	hatch, and then on to the	
	attached discharge incline Screw	
	conveyor.	
Puff Extruder	Puffing extruders are generally	
	designed to convert number two	
	grade dry-milled cornmeal (hull	a S.P
	and germ removed) into various	
	shapes and sizes of expanded	
	snack pieces.	
Conveyor	The main purpose of a conveyor	
	system is to move objects from	
	one location to another. The	
	design allows for movement of	
	objects that are too heavy or too	The second
	bulky for humans to carry by	
	hand. Conveyor systems save	7
	time when transporting items	

	from one location to another	
Rotary roaster	Rotary dryers have been used to dry seeds, corn gluten, distiller's grains, and some rotary dryers can also function as roasters for nuts, sesame seeds, and cocoa Heat can be introduced into the subsurface by electrical resistance heating,	
Automatic collar Typ e cup filler Packing Machine	Collar type cup filler machine is a packing machine used for filling and packing of cups. It has a collar type structure hence the name. It has several advantages primary of which is low wastage of product.	
Air Compressor	An air compressor is a pneumatic device that converts power (using an electric motor, diesel or gasoline engine, etc.) into potential energy stored in pressurized air (i.e., compressed air). By one of several methods, an air compressor forces more and more air into a storage tank, increasing the pressure.	

Nitrogen Generator	Nitrogen generators are used in hypoxic air fire prevention systems to produce air with a low oxygen content which will suppress a fire.	NTPO THE
RO Water Plant	It is a water purification process that uses a partially permeable membrane to separate ions, unwanted molecules and larger particles from drinking water.	
Material handling and other Equipments	These Equipments are used for material handling.	

Machine	Unit	Rate	Price
Batch Mixer with Screw feeder (200 kg/hr)	1	1,12,000	1,12,000
Puff Extruder (50-100 kg/hr)	1	2,00,000	2,00,000
Conveyor	1	1,50,000	1,50,000
Rotary roaster (150 kg/hr)	1	1,95,000	1,95,000
Automatic collar Type cup filler Packing Mac	1	3,50,000	3,50,000
hine (60-100 pouches per minute)			
Air Compressor (1 HP, Flow Rate 20 cfm)	1	65,000	65,000
Nitrogen Generator (Inlet Pressure 7.5 bar)	1	1,10,000	1,10,000

RO Water Plant (200-500 L)	1	1,80,000	1,80,000
Material handling and other equipments	-	1,20,000	1,20,000

Note: Approx. Total Machinery cost shall be Rs 14.82 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	14.82			
Miscellaneous Assets	2.00			
Working capital	5.33			
Total	22.15			

4.7. MEANS OF FINANCE

MEANS OF FINANCE		
PARTICULARS	AMOUNT	
Own Contribution (min 10%)	2.22	
Subsidy @35%(Max. Rs 10 Lac)	5.89	
Term Loan @ 55%	9.25	
Working Capital (Bank Finance)	4.80	
Total	22.15	

4.8. TERM LOAN: Term loan of Rs. 9.25 Lakh is required for project cost of Rs. 22.15 Lakh

4.9. TERM LOAN REPAYMENT & INTEREST SCHEDULE

	REPAYMENT SCHEDULE OF TERM LOAN								
						Interest	11.00%		
							Closing		
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Balance		
1st	Opening Balance								
	1st month	-	9.25	9.25	-	-	9.25		
	2nd month	9.25	-	9.25	0.08	-	9.25		
	3rd month	9.25	-	9.25	0.08	-	9.25		
	4th month	9.25	-	9.25	0.08		9.25		
	5th month	9.25	-	9.25	0.08		9.25		
	6th month 7th month	9.25 9.25	-	9.25	0.08 0.08	0.17	9.25 9.08		
	/ III IIIOIIIII	9.43	-		0.08	0.1/	9.00		

				9.25			
	8th month	9.08	-	9.08	0.08	0.17	8.91
	9th month	8.91	-	8.91	0.08	0.17	8.74
	10th month	8.74	-	8.74	0.08	0.17	8.57
	11th month	8.57	-	8.57	0.08	0.17	8.39
	12th month	8.39	-	8.39	0.08	0.17	8.22
					0.91	1.03	
2nd	Opening Balance						
	1st month	8.22	-	8.22	0.08	0.17	8.05
	2nd month	8.05	-	8.05	0.07	0.17	7.88
	3rd month	7.88	-	7.88	0.07	0.17	7.71
	4th month	7.71	-	7.71	0.07	0.17	7.54
	5th month	7.54	-	7.54	0.07	0.17	7.37
	6th month	7.37	-	7.37	0.07	0.17	7.20
	7th month	7.20	-	7.20	0.07	0.17	7.02
	8th month	7.02	-	7.02	0.06	0.17	6.85
	9th month	6.85	-	6.85	0.06	0.17	6.68
	10th month	6.68	-	6.68	0.06	0.17	6.51
	11th month	6.51	-	6.51	0.06	0.17	6.34
	12th month	6.34	-	6.34	0.06	0.17	6.17
					0.80	2.06	
3rd	Opening Balance						
	1st month	6.17	-	6.17	0.06	0.17	6.00
	2nd month	6.00	-	6.00	0.05	0.17	5.82
	3rd month	5.82	-	5.82	0.05	0.17	5.65

	4th month	5.65	-	5.65	0.05	0.17	5.48
	5th month	5.48	-	5.48	0.05	0.17	5.31
	6th month	5.31	-	5.31	0.05	0.17	5.14
	7th month	5.14	-	5.14	0.05	0.17	4.97
	8th month	4.97	-	4.97	0.05	0.17	4.80
	9th month	4.80	-	4.80	0.04	0.17	4.63
	10th month	4.63	-	4.63	0.04	0.17	4.45
	11th month	4.45	-	4.45	0.04	0.17	4.28
	12th month	4.28	_	4.28	0.04	0.17	4.11
					0.57	2.06	
4th	Opening Balance						
	1st month	4.11	-	4.11	0.04	0.17	3.94
	2nd month	3.94	-	3.94	0.04	0.17	3.77
	3rd month	3.77	-	3.77	0.03	0.17	3.60
	4th month	3.60	-	3.60	0.03	0.17	3.43
	5th month	3.43	-	3.43	0.03	0.17	3.25
	6th month	3.25	-	3.25	0.03	0.17	3.08
	7th month	3.08	-	3.08	0.03	0.17	2.91
	8th month	2.91	-	2.91	0.03	0.17	2.74
	9th month	2.74	-	2.74	0.03	0.17	2.57
	10th month	2.57	-	2.57	0.02	0.17	2.40
	11th month	2.40	-	2.40	0.02	0.17	2.23
	12th month	2.23	-	2.23	0.02	0.17	2.06
					0.35	2.06	

5th	Opening Balance						
	1st month	2.06	-	2.06	0.02	0.17	1.88
	2nd month	1.88	-	1.88	0.02	0.17	1.71
	3rd month	1.71	-	1.71	0.02	0.17	1.54
	4th month	1.54	-	1.54	0.01	0.17	1.37
	5th month	1.37	-	1.37	0.01	0.17	1.20
	6th month	1.20	-	1.20	0.01	0.17	1.03
	7th month	1.03	-	1.03	0.01	0.17	0.86
	8th month	0.86	-	0.86	0.01	0.17	0.69
	9th month	0.69	-	0.69	0.01	0.17	0.51
	10th month	0.51	-	0.51	0.00	0.17	0.34
	11th month	0.34	-	0.34	0.00	0.17	0.17
	12th month	0.17	-	0.17	0.00	0.17	-
					0.12	2.06	
	OOR TO DOOR IORATORIUM	60	MONTHS				
1	PERIOD	6	MONTHS				
REP A	AYMENT PERIOD	54	MONTHS				

4.10. WORKING CAPITAL CALCULATIONS

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL							
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year		
Finished Goods							
	2.86	3.24	3.61	4.03	4.47		
Raw Material							
	1.80	2.05	2.32	2.60	2.92		
Closing Stock	4.66	5.29	5.93	6.63	7.39		

COMPUTATION OF WORKING CAPITAL REQUIREMENT						
TRADITIONAL METHOD				(i	n Lacs)	
Particulars	Amount	Own Ma	rgin	Bank Finar	ice	
Finished Goods & Raw Material	4.66					
Less: Creditors	0.84					
Paid stock	3.82	10%	0.38	90%	3.44	
Sundry Debtors	1.60	10%	0.16	90%	1.44	
	5.42		0.54		4.87	
MPBF					4.87	
WORKING CAPITAL LIMIT DEMAND (from Bank)					4.80	
Working Capital Margin					0.53	

4.11. SALARY & WAGES

Particulars	Wages	No of	Total
	Rs. per Month	Employees	Salary
Machine Operator	15,000	2	30,000
Supervisor	20,000	1	20,000
Skilled (in thousand rupees)	12,000	2	24,000
Unskilled (in thousand rupees)	8,500	3	25,500
Total salary per month			99,500
Total annual labour charges	(in lacs)		11.94

Particulars	Salary	No of	Total
	Rs. per Month	Employees	Salary
Administrative Staff	8,000	2	16,000
Manager	20,000	1	20,000
Accountant	15,000	1	15,000
Total salary per month			51,000
Total annual Staff charges	(in lacs)		6.12

4.12 POWER REQUIREMENT

Utility Charges (per month)					
Particulars	value	Description			
Power connection required		10 KWH			
consumption per day		80 units			
Consumption per month	2,	000 units			
Rate per Unit		10 Rs.			
power Bill per month	20,0	000 Rs.			

4.13. DEPRECIATION CALCULATION

COMPUTATION OF DEPRECIATION						
Description	Plant & Machinery	Miss. Assets	TOTAL			
Rate of Depreciation	15.00%	10.00%				
Opening Balance	-	-	-			
Addition	14.82	2.00	16.82			
Total	14.82	2.00	16.82			
Less : Depreciation	2.22	0.20	2.42			
WDV at end of Year	12.60	1.80	14.40			
Additions During The Year	-	-	-			
Total	12.60	1.80	14.40			
Less : Depreciation	1.89	0.18	2.07			
WDV at end of Year	10.71	1.62	12.33			
Additions During The Year	-	-	-			
Total	10.71	1.62	12.33			
Less : Depreciation	1.61	0.16	1.77			
WDV at end of Year	9.10	1.46	10.56			
Additions During The Year	-	-	-			
Total	9.10	1.46	10.56			
Less: Depreciation	1.37	0.15	1.51			
WDV at end of Year	7.74	1.31	9.05			
Additions During The Year	-	-	-			
Total	7.74	1.31	9.05			
Less: Depreciation	1.16	0.13	1.29			
WDV at end of Year	6.58	1.18	7.76			

4.14. REPAIR & MAINTENANCE: Repair & Maintenance is 2.0% of Gross Sale.

4.15. PROJECTIONS OF PROFITABILITY ANALYSIS

PROJECTED PROFITABILITY STATEMENT					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Capacity Utilisation %	60%	65%	70%	75%	80%
<u>SALES</u>					
Gross Sale					
Corn Puff	68.40	81.59	92.28	103.84	116.32
0 0000 0 0000			,		
Total	68.40	81.59	92.28	103.84	116.32
COST OF SALES					
Raw Material Consumed	36.00	40.95	46.31	52.09	58.34
Electricity Expenses	2.40	2.76	3.17	3.65	4.02
Depreciation	2.42	2.07	1.77	1.51	1.29
Wages & labour	11.94	14.09	15.50	17.05	18.75
Repair & maintenance	1.37	1.63	1.85	2.08	2.33
Packaging	3.08	3.26	3.69	4.15	4.65
Cost of Production	57.21	64.76	72.28	80.53	89.38
Add: Opening Stock /WIP	-	2.86	3.24	3.61	4.03
Less: Closing Stock /WIP	2.86	3.24	3.61	4.03	4.47
Cost of Sales	54.35	64.39	71.91	80.12	88.94
GROSS PROFIT	14.05	17.20	20.37	23.72	27.38
	20.54%	21.08%	22.08%	22.84%	23.54%
Salary to Staff	6.12	7.34	8.08	8.89	9.77
Interest on Term Loan	0.91	0.80	0.57	0.35	0.12
Interest on working Capital	0.53	0.53	0.53	0.53	0.53
Rent	3.60	3.96	4.36	4.79	5.27
selling & adm exp	0.82	0.98	1.38	1.87	2.09
TOTAL	11.98	13.61	14.92	16.42	17.79
NET PROFIT	2.07	3.59	5.45	7.30	9.59
	3.03%	4.40%	5.91%	7.03%	8.25%
Taxation	-	-	0.22	0.58	1.04
PROFIT (After Tax)	2.07	3.59	5.24	6.71	8.55

4.16. BREAK EVEN POINT ANALYSIS

BREAK EVEN POINT ANALYSIS					
Year	I	II	III	IV	V
Net Sales & Other Income	68.40	81.59	92.28	103.84	116.32
Less: Op. WIP Goods	-	2.86	3.24	3.61	4.03
Add : Cl. WIP Goods	2.86	3.24	3.61	4.03	4.47
Total Sales	71.26	81.96	92.66	104.25	116.77
Variable & Semi Variable Exp.					
Raw Material Consumed	36.00	40.95	46.31	52.09	58.34
Electricity Exp/Coal Consumption at 85%	2.04	2.35	2.70	3.10	3.41
Wages & Salary at 60%	10.84	12.86	14.15	15.56	17.12
Selling & adminstrative Expenses 80%	0.66	0.78	1.11	1.50	1.68
Interest on working Capital	0.528	0.528	0.528	0.528	0.528
Repair & maintenance	1.37	1.63	1.85	2.08	2.33
Packaging	3.08	3.26	3.69	4.15	4.65
Total Variable & Semi Variable Exp	54.51	62.36	70.32	79.01	88.06
Contribution	16.75	19.60	22.33	25.24	28.71
Einal 9 Carri Einal Europea					
Fixed & Semi Fixed Expenses	0.36	0.41	0.48	0.55	0.60
Electricity Exp/Coal Consumption at 15%	7.22	8.57	9.43	10.37	0.60
Wages & Salary at 40% Interest on Term Loan	0.91	0.80	0.57	0.35	0.12
Depreciation	2.42	2.07	1.77	1.51	1.29
Selling & adminstrative Expenses 20%	0.16	0.20	0.28	0.37	0.42
Rent	3.60	3.96	4.36	4.79	5.27
Total Fixed Expenses	14.68	16.01	16.88	17.95	19.12
Total Flacu Expenses	17.00	10.01	10.00	11.73	17,12
Capacity Utilization	60%	65%	70%	75%	80%
OPERATING PROFIT	2.07	3.59	5.45	7.30	9.59
BREAK EVEN POINT	53%	53%	53%	53%	53%
BREAK EVEN SALES	62.44	66.96	70.04	74.12	77.75

4.17. PROJECTED BALANCE SHEET

PROJECTED BALANCE SH	<u>EET</u>				(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>Liabilities</u>	-	-	-	-	-
Capital					
opening balance		8.18	9.26	10.50	12.21
Add:- Own Capital	2.22				
Add:- Retained Profit	2.07	3.59	5.24	6.71	8.55
Less:- Drawings	2.00	2.50	4.00	5.00	7.00
Subsidy/grant	5.89				
Closing Balance	8.18	9.26	10.50	12.21	13.76
Term Loan	8.22	6.17	4.11	2.06	-
Working Capital Limit	4.80	4.80	4.80	4.80	4.80
Sundry Creditors	0.84	0.96	1.08	1.22	1.36
Provisions & Other Liab	0.40	0.50	0.60	0.72	0.86
TOTAL:	22.44	21.69	21.09	21.00	20.79
Assets					
Fixed Assets (Gross)	16.82	16.82	16.82	16.82	16.82
Gross Dep.	2.42	4.49	6.26	7.77	9.06
Net Fixed Assets	14.40	12.33	10.56	9.05	7.76
Current Assets					
Sundry Debtors	1.60	1.90	2.15	2.42	2.71
Stock in Hand	4.66	5.29	5.93	6.63	7.39
Cash and Bank	1.79	2.17	2.45	2.90	2.93
TOTAL:	22.44	21.69	21.09	21.00	20.79

4.18. CASH FLOW STATEMENT

PROJECTED CASH FLOW ST	ATEMENT				(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
SOURCES OF FUND			<u> </u>	<u> </u>	
Own Margin	2.22				
Net Profit	2.07	3.59	5.45	7.30	9.59
Depriciation & Exp. W/off	2.42	2.07	1.77	1.51	1.29
Increase in Cash Credit	4.80	-	-	-	-
Increase In Term Loan	9.25	-	-	-	-
Increase in Creditors	0.84	0.12	0.12	0.14	0.15
Increase in Provisions & Oth lib	0.40	0.10	0.10	0.12	0.14
Sunsidy/grant	5.89				
TOTAL:	27.89	5.87	7.44	9.06	11.17
APPLICATION OF FUND					
Increase in Fixed Assets	16.82				
Increase in Stock	4.66	0.63	0.64	0.70	0.76
Increase in Debtors	1.60	0.31	0.25	0.27	0.29
Repayment of Term Loan	1.03	2.06	2.06	2.06	2.06
Drawings	2.00	2.50	4.00	5.00	7.00
Taxation	_	-	0.22	0.58	1.04
TOTAL:	26.10	5.49	7.16	8.61	11.15
Opening Cash & Bank Balance	-	1.79	2.17	2.45	2.90
Add : Surplus	1.79	0.38	0.28	0.45	0.03
Closing Cash & Bank Balance	1.79	2.17	2.45	2.90	2.93

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	4.50	5.66	7.00	8.22	9.84
Interest on Term Loan	0.91	0.80	0.57	0.35	0.12
Total	5.41	6.46	7.58	8.57	9.96
REPAYMENT					
Instalment of Term Loan	1.03	2.06	2.06	2.06	2.06
Interest on Term Loan	0.91	0.80	0.57	0.35	0.12
Total	1.94	2.86	2.63	2.40	2.18
DEBT SERVICE COVERAGE RATIO	2.79	2.26	2.88	3.56	4.57
AVERAGE D.S.C.R.					3.21