PROJECT REPORT

Of

VERMICELLI

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Vermicelli Making unit.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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PROJECT REPORT ON VERMICELLI



INTRODUCTION

Vermicelli is a popular instant food product. It falls under the category of extruded product and is made from wheat flour. At times tapioca or soybean or groundnut flour is also added. Thus, it is rich in proteins and liked by people from all walks of life, irrespective of age. It is basically a snack food item and at times it is also used as a table enricher. With changing lifestyles, greater awareness about health and preference for instant food items have made vermicelli very popular and an item of mass consumption.

Objective

The primary objective of the model report is to facilitate the entrepreneurs in understanding the importance of setting up unit of vermicelli. This model report will serve as guidance to the entrepreneurs on starting up such a new project and basic technical knowledge for setting up such a facility.

Raw Material Availability

Major raw material would be wheat flour which will be available locally. Other flours like soya bean, tapioca or groundnut will be required in small quantities. Some minerals and vitamins can also be added.

Market Opportunities

Urbanization has changed the lifestyles of not only urbanites but even of semiurban and rural areas. This along with increase in the purchasing power of people has fuelled demand for many fast-food or instant food items and vermicelli is one such product. With the addition of groundnut or soybean or tapioca flour, it also becomes a nutritive product and thus even health conscious people prefer it. Vermicelli has, thus, become a very popular instant food variety since last few years and its demand is steadily growing. There are some established brands like Maggi and Fryums but the market is very large and growing. A small scale unit can compete with these brands in the local market on the price front because of low overheads, less transportation costs and reasonable advertisement budget. Proper and adequate placement of product and thrust on publicity basically at the point of sales would also be crucial.

PROJECT DESCRIPTION

Applications

Vermicelli is an extruded instant food product basically made from wheat flour. Other flours like groundnut, soybean or tapioca are also mixed with wheat flour to make it more nutritive. They are easily affordable, tasty and easy to make. This product can be made in many states of the country

Availability of knowhow and compliances

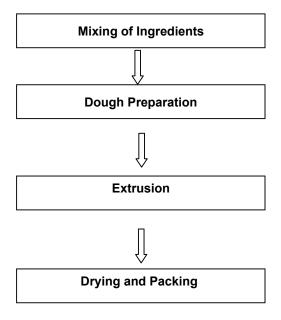
DFRL, Mysore,, has successfully developed the technical know-how. BIS has specified quality parameters in 1485:1976. Compliances under the PFA Act are mandatory.

Capacity of the Project

Rated production capacity of 80 tonnes per year with 300 working days and 8 hours working every day.

Manufacturing process

It is very well standardised and simple. Wheat and other flours in small quantity are mixed with around 25% to 30% of water in a mixer for about half an hour and dough is prepared. This dough is passed through extruder and long rods of vermicelli come out from the extruder which are cut into the desired length and then placed in the tray drier for drying. Drying temperature is around 55-65 degree C and time required is $4\frac{1}{2}$ to 5 hours. Dried pieces are weighed and packed in attractively printed polythene bags. The weight and process loss is around 10%. The process flow chart is as under:



FSSAI LICENSE: FSSAI License is issued by the Food Safety and Standards Authority of India (FSSAI), Ministry of Family Health & Welfare, Government of India. Application to commence a food business must be made to the FSSAI in the prescribed format. Based on the application and supporting documents, FSSAI will accord approval. The Food Safety and Standards (Licensing and Registration of Food Businesses) Regulations 2011 introduced to improve the hygiene and quality of food has brought about tremendous changes in the food industry. As per the Act, no person shall commence or carry on any food business except under a FSSAI license or FSSAI registration. Therefore, any food manufacturing or processing or packaging or distributing entity is now required to obtain a FSSAI License or Registration.

PROJECT AT A GLANCE

1 Name of the Entreprenuer XXXXXXX2 Constitution (legal Status) XXXXXXX XXXXXXXX 3 Father's/Spouce's Name 4 Unit Address XXXXXXX

Taluk/Block:

XXXXXDistrict: XXXXX XXXXX Pin: E-Mail

Mobile XXXXX

5 Product and By Product Vermicelli 6 Name of the project / business activity propose Vermicelli

7 Cost of Project Rs16lac

8 Means of Finance

Rs.9.94 Lacs

As per Project Eligibility Rs.1.6 Lacs Rs.4.47 Lacs

Term Loan KVIC Margin Money Own Capital Working Capital

9 Debt Service Coverage Ratio 4.92

10 Pay Back Period 5 Years 11 Project Implementation Period 6 Months

12 Break Even Point 23%

6 Persons 13 Employment

25.00 HP 14 Power Requirement

15 Major Raw materials wheat, topioca, groundnut flour, soyabean

16 Estimated Annual Sales Turnover 53.87 Lacs

16 Detailed Cost of Project & Means of Finance

COST OF PROJECT

(Rs. In Lacs)

State:

	(Ito. III Luco)
Particulars	Amount
Land	Rented/Owned
Building & Civil Work (2000 Sq Ft)	1.50
Plant & Machinery	8.30
Furniture & Fixtures	0.74
Pre-operative Expenses	0.50
Working Capital Requirement	4.96
Total	16.00

MEANS OF FINANCE

Particulars	Amount
Own Contribution @10%	1.60
Term Loan	9.94
Workign Capital Finance	4.47
Total	16.00

General Special Beneficiary's Margin Money 10% 5%

(% of Project Cost)

PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
Vermicelli extruder and cutting Machine25 HP	2.00	275000.00	550000.00
Dough Kneader	1.00	15000.00	15000.00
Rotary Roaster	-	175000.00	175000.00
Weighing scales	1.00	20,000.00	20,000.00
Packaging Machine	1.00		50,000.00
Misc other	LS		20,000.00
Total			830,000.00

PROJECTED CASH FLOW STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
SOURCES OF FUILD					
Share Capital	1.60	-			
Reserve & Surplus	10.17	12.41	15.32	18.14	20.87
Depriciation & Exp. W/off	1.43	1.26	1.08	0.93	0.80
Increase in Cash Credit	4.47	-	-	-	-
Increase In Term Loan	9.94	-	-	-	-
Increase in Creditors	1.58	0.26	0.26	0.26	0.26
Increase in Provisions	0.36	0.04	0.04	0.04	0.05
TOTAL:	29.54	13.97	16.71	19.38	21.98
APPLICATION OF FUND					
Increase in Fixed Assets	10.54	-	-	-	-
Increase in Stock	3.84	- 0.34	0.50	0.50	0.50
Increase in Debtors	2.69	0.59	0.47	0.47	0.47
Increase in Deposits & Adv	2.50	0.25	0.28	0.30	0.33
Repayment of Term Loan	-	2.48	2.48	2.48	2.34
Taxation	-	1.24	3.06	3.63	4.17
TOTAL:	19.58	4.23	6.80	7.39	7.82
Opening Coch & Bank Balanca		9.96	19.71	29.62	41.61
Opening Cash & Bank Balance	-	9.96	19./1	29.02	41.01
Add : Surplus	9.96	9.75	9.91	11.99	14.16
Closing Cash & Bank Balance	9.96	19.71	29.62	41.61	55.77

PROJECTED BALANCE SHEET

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Capital Account	1.60	1.60	1.60	1.60	1.60
Retained Profit	10.17	21.34	33.60	48.11	64.81
Term Loan	9.94	7.45	4.97	2.48	0.14
Cash Credit	4.47	4.47	4.47	4.47	4.47
Sundry Creditors	1.58	1.84	2.10	2.36	2.63
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.53
TOTAL:	28.11	37.09	47.17	59.50	74.17
APPLICATION OF FUND					
Fixed Assets (Gross)	10.54	10.54	10.54	10.54	10.54
Gross Dep.	1 10				
Gross Dep.	1.43	2.70	3.78	4.71	5.51
Net Fixed Assets	9.11	2.70 7.84	3.78 6.76	4.71 5.83	5.51 5.03
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Net Fixed Assets					
Net Fixed Assets Current Assets	9.11	7.84	6.76	5.83	5.03
Net Fixed Assets Current Assets Sundry Debtors	9.11 2.69	7.84 3.28	6.76 3.76	5.83 4.23	5.03 4.70
Net Fixed Assets Current Assets Sundry Debtors Stock in Hand	9.11 2.69 3.84	7.84 3.28 3.50	6.76 3.76 4.00	5.83 4.23 4.50	5.03 4.70 5.01

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PROJECTED PROFITABILITY STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
ALCATEC					
A) SALES Gross Sale	53.87	65.68	75.13	84.58	94.03
Gross sale	33.07	03.00	73.13	04.50	74.03
Total (A)	53.87	65.68	75.13	84.58	94.03
B) COST OF SALES					
Raw Mateiral Consumed	31.50	36.75	42.00	47.25	52.50
Elecricity Expenses	2.15	2.51	2.86	3.22	3.58
Repair & Maintenance	-	0.66	0.75	0.85	0.94
Labour & Wages	3.43	3.78	4.15	4.57	5.02
Depriciation	1.43	1.26	1.08	0.93	0.80
Consumables and Other Expense	2.69	3.28	3.76	4.23	4.70
Cost of Production	41.21	48.24	54.61	61.05	67.55
Add: Opening Stock/WIP	-	2.27	2.65	3.02	3.40
Less: Closing Stock/WIP	2.27	2.65	3.02	3.40	3.78
Cost of Sales (B)	38.94	47.86	54.23	60.67	67.17
C) GROSS PROFIT (A-B)	14.93	17.82	20.90	23.91	26.86
	28%	27%	28%	28%	29%
D) Bank Interest (Term Loan)	0.86	1.04	0.75	0.46	0.18
Bank Interest (C.C. Limit)	0.45	0.45	0.45	0.45	0.45
E) Salary to Staff	2.38	2.61	2.87	3.16	3.48
F) Selling & Adm Expenses Exp.	1.08	1.31	1.50	1.69	1.88
TOTAL (D+E)	4.76	5.41	5.57	5.76	5.99
H) NET PROFIT	10.17	12.41	15.32	18.14	20.87
II) NEI I KOITI	10.17	14.71	10.02	10.14	20.07
I) Taxation	-	1.24	3.06	3.63	4.17
J) PROFIT (After Tax)	10.17	11.17	12.26	14.52	16.70

COMPUTATION OF MANUFACTURING OF VEMICELLI

Items to be Manufactured

Vemicelli

Manufacturing Capacity per day	-	0.50	MT
	-		
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		150.00	MT
Year		Capacity	MT
		Utilisation	
			Less wastage 10%
IST YEAR	90	60%	81
IIND YEAR	105	70%	95
IIIRD YEAR	120	80%	108
IVTH YEAR	135	90%	122
VTH YEAR	150	100%	135

COMPUTATION OF RAW MATERIAL

Item Name		Quantity of	Recovery	Unit Rate of	Total Cost
		Raw Material		/MT	Per Annum (100%)
		MT			
wheat flour	100%	150.00	100%	30,000.00	4,500,000.00
Other flours like soya bean, tapioca or					
groundnut		15.00		50000	750,000.00

Total (Rounded off in lacs)

5,250,000.00

Annual Consumption cost (In Lacs)

52.50

Raw Material Consumed	Capacity Utilisation	Amount (Rs.)
IST YEAR	60%	31.50
IIND YEAR	70%	36.75
IIIRD YEAR	80%	42.00
IVTH YEAR	90%	47.25
VTH YEAR	100%	52.50

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Finished Goods					
(15 Days requirement)	2.27	2.65	3.02	3.40	3.78
Raw Material					
(15 Days requirement)	1.58	0.86	0.98	1.10	1.23
Closing Stock	3.84	3.50	4.00	4.50	5.01

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars		Total
		Amount
Stock in Hand		3.84
Sundry Debtors		2.69
	Total	6.54
Sundry Creditors		1.58
Working Capital Requirement		4.96
Margin		0.50
Working Capital Finance		4.47

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled Worker	8,000.00	2	16,000.00
Semi skilled Worker	5,000.00	2	10,000.00
			26,000.00
Add: 10% Fringe Benefit			2,600.00
Total Labour Cost Per Month			28,600.00
Total Labour Cost for the year (In Rs. Lakhs)		4	3.43

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant	8,000.00	1	8,000.00
Sales Representative	10,000.00	1	10,000.00
Total Salary Per Month			18,000.00
Add: 10% Fringe Benefit			1,800.00
Total Salary for the month			19,800.00
Total Salary for the year (In Rs. Lakhs)		2	2.38

COMPUTATION OF DEPRECIATION

Description	Land	Building/shed	Plant &	Furniture	TOTAL
			Machinery		
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased	-	-	-	-
Addition	-	1.50	8.30	0.74	10.54
	-	1.50	8.30	0.74	10.54
Less : Depreciation	-	0.15	1.25	0.04	1.43
WDV at end of Ist year	-	1.35	7.06	0.70	9.11
Additions During The Year	-	-	-	-	-
	-	1.35	7.06	0.70	9.11
Less : Depreciation	-	0.14	1.06	0.07	1.26
WDV at end of IInd Year	-	1.22	6.00	0.63	7.84
Additions During The Year	-	-	-	-	-
	-	1.22	6.00	0.63	7.84
Less : Depreciation	-	0.12	0.90	0.06	1.08
WDV at end of IIIrd year	-	1.09	5.10	0.57	6.76
Additions During The Year	-	-	-	-	-
	-	1.09	5.10	0.57	6.76
Less : Depreciation	-	0.11	0.76	0.06	0.93
WDV at end of IV year	-	0.98	4.33	0.51	5.83
Additions During The Year	-	-	-	-	-
	-	0.98	4.33	0.51	5.83
Less: Depreciation	-	0.10	0.65	0.05	0.80
WDV at end of Vth year	-	0.89	3.68	0.46	5.03

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Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
IST YEAR	Opening Balance						
	Ist Quarter	-	9.94	9.94	-	-	9.94
	Iind Quarter	9.94	-	9.94	0.29	-	9.94
	IIIrd Quarter	9.94	-	9.94	0.29	-	9.94
	Ivth Quarter	9.94	-	9.94	0.29		9.94
					0.86		
IIND YEAR	Opening Balance						
	Ist Quarter	9.94	-	9.94	0.29	0.62	9.32
	Iind Quarter	9.32	-	9.32	0.27	0.62	8.69
	IIIrd Quarter	8.69	-	8.69	0.25	0.62	8.07
	Ivth Quarter	8.07		8.07	0.23	0.62	7.45
					1.04	2.48	
IIIRD YEAR	Opening Balance						
	Ist Quarter	7.45	-	7.45	0.21	0.62	6.83
	Iind Quarter	6.83	-	6.83	0.20	0.62	6.21
	IIIrd Quarter	6.21	-	6.21	0.18	0.62	5.59
	Ivth Quarter	5.59		5.59	0.16	0.62	4.97
					0.75	2.48	
IVTH YEAR	Opening Balance						
	Ist Quarter	4.97	-	4.97	0.14	0.62	4.35
	Iind Quarter	4.35	-	4.35	0.12	0.62	3.73
	IIIrd Quarter	3.73	-	3.73	0.11	0.62	3.11
	Ivth Quarter	3.11		3.11	0.09	0.62	2.48
	-				0.46	2.48	
VTH YEAR	Opening Balance						
	Ist Quarter	2.48	-	2.48	0.07	0.62	1.86
	Iind Quarter	1.86	-	1.86	0.05	0.62	1.24
	IIIrd Quarter	1.24	-	1.24	0.04	0.55	0.69
	Ivth Quarter	0.69		0.69	0.02	0.55	0.14
	-				0.18	2.34	

CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
CASH ACCRUALS	11.60	12.43	13.34	15.45	17.50
Interest on Term Loan	0.86	1.04	0.75	0.46	0.18
Total	12.46	13.47	14.09	15.91	17.68
REPAYMENT					
Instalment of Term Loan	2.48	2.48	2.48	2.34	2.34
Interest on Term Loan	0.86	1.04	0.75	0.46	0.18
Total	3.34	3.52	3.23	2.81	2.52
DEBT SERVICE COVERAGE R	3.73	3.83	4.36	5.67	7.01
AVERAGE D.S.C.R.			4.92		

COMP	TITA	TION	OF	SALE
COMI	O I I		$\mathbf{O}_{\mathbf{I}}$	ULLL

Particulars	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Op Stock	_	4	5	5	6
			· · · · · · · · · · · · · · · · · · ·		
Production	81	95	108	122	135
	81	99	113	127	141
Less : Closing Stock	4	5	5	6	7
Net Sale	77	94	107	121	134
Sale Price per MT	70,000.00	70,000.00	70,000.00	70,000.00	70,000.00
Sale (in Lacs)	53.87	65.68	75.13	84.58	94.03

COMPUTATION OF ELECTRICITY

(A) POWER CONNECTION			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	25	
Load Factor		0.7460	
Electricity Charges	per unit	8.00	
Total Working Days		300	
Electricity Charges (8 Hrs Per day)			358,080.00
Add : Minimim Charges (@ 10%)			
(B) D.G. SET			
No. of Working Days		300	days
No of Working Hours		-	Hour per day
Total no of Hour		-	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		-	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		-	
Add : Lube Cost @15%		-	
Total		-	
Total cost of Power & Fuel at 100%			3.58
Total cost of Fower & Facility 100 /6			3.30
Year	Capacity		Amount
			(in Lacs)
IST YEAR	60%		2.15
IIND YEAR	70%		2.51
IIIRD YEAR	80%		2.86
IVTH YEAR	90%		3.22
VTH YEAR	100%		3.58

BREAK EVEN POINT ANALYSIS

Year	1	II	III	IV	V
Net Sales & Other Income	53.87	65.68	75.13	84.58	94.03
Less : Op. WIP Goods	-	2.27	2.65	3.02	3.40
Add : Cl. WIP Goods	2.27	2.65	3.02	3.40	3.78
Total Sales	56.13	66.06	75.51	84.96	94.41
Total Sales	30.13	00.00	75.51	04.50	34.41
Variable & Semi Variable Exp.					
Raw Material & Tax	24.50	26.75	42.00	47.25	F2 F0
Electricity Exp/Coal Consumption at 85%	31.50 1.83	36.75 2.13	42.00 2.43	47.25 2.74	52.50 3.04
Manufacturing Expenses 80%	2.15	3.15	3.61	4.06	4.51
Wages & Salary at 60%	3.48	3.83	4.22	4.64	5.10
Selling & adminstrative Expenses 80%	0.86	1.05	1.20	1.35	1.50
Intt. On Working Capital Loan	0.45	0.45	0.45	0.45	0.45
Total Variable & Semi Variable Exp	40.27	47.36	53.91	60.49	67.11
•					
Contribution	15.86	18.69	21.60	24.47	27.30
Fixed & Semi Fixed Expenses					
Tixed & Jelli Tixed Expenses					
Manufacturing Expenses 20%	0.54	0.79	0.90	1.01	1.13
Electricity Exp/Coal Consumption at 15%	0.32	0.38	0.43	0.48	0.54
Wages & Salary at 40%	2.32	2.56	2.81	3.09	3.40
Interest on Term Loan	0.86	1.04	0.75	0.46	0.18
Depreciation	1.43	1.26	1.08	0.93	0.80
Selling & adminstrative Expenses 20%	0.22	0.26	0.30	0.34	0.38
Total Fixed Expenses	5.69	6.28	6.28	6.32	6.42
Capacity Utilization	60%	70%	80%	90%	100%
OPERATING PROFIT	10.17	12.41	15.32	18.14	20.87
BREAK EVEN POINT	22%	24%	23%	23%	24%
BREAK EVEN SALES	20.13	22.20	21.94	21.96	22.22



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