## 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.]

## PROJECT REPORT <br> 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 $41 / 2$ 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:


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PLANT \& MACHINERY

| PARTICULARS | QTY. | RATE | AMOUNT IN RS. |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| Vermicelli extruder and cutting Machine25 <br> 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 |  |  | $830,000.00$ |

## SOURCES OF FUND

Share Capital
Reserve \& Surplus
Depriciation \& Exp. W/ off Increase in Cash Credit
Increase In Term Loan
Increase in Creditors
Increase in Provisions

TOTAL :

APPLICATION OF FUND
Increase in Fixed Assets
Increase in Stock
Increase in Debtors
Increase in Deposits \& Adv
Repayment of Term Loan
Taxation
TOTAL:
Opening Cash \& Bank Balance
Add: Surplus

Closing Cash \& Bank Balance

| 1.60 | - |  |  |  |
| ---: | :---: | :---: | :---: | :---: |
| 10.17 | 12.41 | 15.32 | 18.14 | 20.87 |
| 1.43 | 1.26 | 1.08 | 0.93 | 0.80 |
| 4.47 | - | - | - | - |
| 9.94 | - | - | - | - |
| 1.58 | 0.26 | 0.26 | 0.26 | 0.26 |
| 0.36 | 0.04 | 0.04 | 0.04 | 0.05 |
|  |  |  |  |  |
| $\mathbf{2 9 . 5 4}$ | $\mathbf{1 3 . 9 7}$ | $\mathbf{1 6 . 7 1}$ | $\mathbf{1 9 . 3 8}$ | $\mathbf{2 1 . 9 8}$ |


| 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. | 1.43 | 2.70 | 3.78 | 4.71 | 5.51 |
| Net Fixed Assets | 9.11 | 7.84 | 6.76 | 5.83 | 5.03 |
| Current Assets |  |  |  |  |  |
| Sundry Debtors | 2.69 | 3.28 | 3.76 | 4.23 | 4.70 |
| Stock in Hand | 3.84 | 3.50 | 4.00 | 4.50 | 5.01 |
| Cash and Bank | 9.96 | 19.71 | 29.62 | 41.61 | 55.77 |
| Deposits \& Advances | 2.50 | 2.75 | 3.03 | 3.33 | 3.66 |
| TOTAL : | 28.11 | 37.09 | 47.17 | 59.50 | 74.17 |

PROJECTED PROFITABILITY STATEMENT

## PARTICULARS IST YEAR IIND YEAR IIIRD YEAR IVTH YEAR VTH YEAR

A) SALES

| Gross Sale | 53.87 | 65.68 | 75.13 | 84.58 | 94.03 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 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



| Raw Material Consumed | Capacity <br> 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 |



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 |  |  | $\mathbf{1 0 . 0 0} \%$ | $\mathbf{1 5 . 0 0} \%$ | $\mathbf{1 0 . 0 0} \%$ |
| 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 | - | - | - | - |  |
|  | - | 7.06 | 0.70 | 9.11 |  |
| Less : Depreciation | - | 1.35 | 1.06 | 0.07 | 1.26 |
| WDV at end of IInd Year | - | 0.14 | 6.00 | 0.63 | 7.84 |
| Additions During The Year | - | 1.22 | - | - |  |
|  | - | - | 6.00 | 0.63 | 7.84 |
| Less : Depreciation | - | 1.22 | 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 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  | 11.5\% |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |

COMPUTATION OF SALE

| 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 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


| (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 |
|  |  |  |  |
| 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 | I | 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 |
| Variable \& Semi Variable Exp. |  |  |  |  |  |
| Raw Material \& Tax | 31.50 | 36.75 | 42.00 | 47.25 | 52.50 |
| Electricity Exp/Coal Consumption at 85\% | 1.83 | 2.13 | 2.43 | 2.74 | 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 |  |  |  |  |  |
| 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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