## PROJECT REPORT

## Of

## COIR PITH BLOCK

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding COIR PITH BLOCK

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 AT A GLANCE

1 Name of the Entreprenuer
Constitution (legal Status)
Father's/ Spouce's Name

Unit Address

5 Product and By Product

6 Name of the project / business activity proposed :

7 Cost of Project
8 Means of Finance
Term Loan
KVIC Margin Money
Own Capital
Working Capital
Debt Service Coverage Ratio
10 Pay Back Period
11 Project Implementation Period
12 Break Even Point

13 Employment
14 Power Requirement
15 Major Raw materials
16 Estimated Annual Sales Turnover
16 Detailed Cost of Project \& Means of Finance

COST OF PROJECT

| (Rs. In Lacs) |  |
| :--- | ---: |
| Landiculars | Amount |
| Building \& Civil Work (1200 Sq Ft) | Rented/ Owned |
| Plant \& Machinery | 3.00 |
| Furniture \& Fixtures | 15.87 |
| Pre-operative Expenses | 0.42 |
| Working Capital Requirement | - |
| Total | 5.71 |

MEANS OF FINANCE

| Particulars | Amount |
| :--- | ---: |
| Own Contribution @10\% | 2.50 |
| Term Loan | 17.36 |
| Workign Capital Finance | 5.14 |
| Total | $\mathbf{2 5 . 0 0}$ |


|  | General | Special |
| :--- | ---: | ---: |
| Beneficiary's Margin Monery <br> (\% of Project Cost) | $10 \%$ | $5 \%$ |

## PROJECT PROFILE FOR COIR PITH BLOCK MAKING UNIT



## INTRODUCTION

Coir pith or dust is a biomass residue generated during the extraction of coir fibre from coconut husk and is a byproduct of the coir industry. The coir pith is a very light and compressible material. It is highly hygroscopic and holds water of 7 to 8 fold by weight. Coir pith has an ability to be compressed into a wide range of added value products such as seed cells, propagation modules all the way.

The major properties of coir pith are:

- High water holding capacity, i.e., 6-8 times than its weight.
- Excellent moisture retention even after drying.
- Slow degradation due to high lignocellulose bonding.
- High porosity, stores and releases nutrients over extended periods of time.
- Greater physical resiliency that with stands compression better.
- Excellent aeration / oxygenation providing enhanced root penetration.
- Acceptable Electrical Conductivity (EC), pH and Cation Exchange Capacity CEC).
- $100 \%$ degradable, organic and a renewable resource.

It is more suitable for growing media (in agriculture). Most of the Green houses are using this media for various cultivation like flowers, fruits, vegetables, ornamental plants \& medicinal plants etc. throughout the world.

## PROCESS OF MANUFACTURE

Coir pith block is specially designed for commercial nurseries and greenhouses. This soil conditioner is suitable for all types of garden plants, lawns, flowers, orchids and vegetables in pots or on the ground. The coir pith is compressed into very small packs of 650 gm , shrink wrapped which is most suitable to the hobby market and home garden owners.

## Coir pith Block Specifications

Available Sizes- 5 kg and 650 gm

| Parameters | 5 Kg Block | $\mathbf{6 5 0}$ gm Block |
| :--- | :--- | :--- |
| Weight | $5 \mathrm{Kg}+/-0.3 \mathrm{Kg}$ | $650 \mathrm{gm}+/-30 \mathrm{gm}$ |
| Size | $30 \times 30 \times 13 \mathrm{~cm}$ | $20 \times 10 \times 5 \mathrm{~cm}$ |
| Compression ratio | $5: 1$ | $8: 1$ |
| Moisture content | $<20 \%$ | $<20 \%$ |
| Electrical Conductivity | $<0.5$ milliohms $/ \mathrm{cm}$ | $<0.5 \mathrm{milliohms} / \mathrm{cm}$ |
| Expanded Volume | 13 to $14 \mathrm{~L} / \mathrm{Kg}$ | 8 to $9 \mathrm{~L} / \mathrm{Kg}$ |

## BASIS AND PRESUMTIONS

- The Project Profile is based on 8 working hours in a day and 175 days in a year and the Break Even efficiency has been calculated at $70 \%, 75 \%, 80 \%$, $90 \%$ and $100 \%$ capacity utilization.
- The rate of interest both for fixed asset and working capital have been taken as $11.5 \%$ p.a.


## - TECHNICAL ASPECTS

| Installed Production capacity per shift/machine | $:$ | 6.0 per shift |
| :--- | :--- | :--- |
| Number of machine | $:$ | 1 |
| Number of Shift per day | $:$ | 1 |
| Working days p.a | $:$ | 175 days |
| Yield wastage | $:$ | $40 \%$ |
| Capacity Utilization | $:$ | $70 \%$ |
| $\quad$-First year | $:$ | $75 \%$ |
| $\quad$-Second year | $:$ | $80 \%$ |
| $\quad$-Third year | $:$ | $90 \%$ |
| $\quad$-Fourth year | $:$ | $100 \%$ |
| $\quad$-Fifth year | $:$ | Rs. $12500 /-$ per ton |
| Rate of Average Sales Realization | $:$ | Rs.5500/-per ton |
| Rate of Average cost of raw material | $:$ | $11.50 \%$ |
| Interest on term Loan | $:$ | $11.50 \%$ |
| Interest on working capital |  |  |
| Manpower requirement | $:$ | 1 |
| $\quad$ Supervisor | $:$ | 10 |
| Semi/unskilled worker | $:$ | 20 HP |

Note:All the machineries and equipments mentioned in the Project profile are of indigenous make and are of medium price.

## PLANT \& MACHINERY

| PARTICULARS | QTY. | RATE |  | AMOUNT IN RS. |
| :--- | ---: | :--- | :--- | ---: |
|  |  |  |  | $13,00,000.00$ |
| Coir pith Compacting machine <br> with electrical (5kg Block) 20 |  |  | $13,00,000.00$ |  |
| HP | 1.00 |  | $1,20,000.00$ |  |
| Screener - 2 HP (8 feet length) | 1.00 |  | $1,00,000.00$ |  |
| Other accessories | 1.00 |  | $1,67,000.00$ |  |
| Sub- Total |  |  | $\mathbf{1 5 , 8 7 , 0 0 0 . 0 0}$ |  |


| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SOURCES OFFUND |  |  |  |  |  |
| Capital Account | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| Retained Profit | 14.58 | 30.55 | 48.07 | 67.01 | 86.31 |
| Term Loan | 17.36 | 13.02 | 8.68 | 4.34 | 0.01 |
| Cash Credit | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 |
| Sundry Creditors | 2.13 | 2.43 | 2.74 | 2.89 | 3.04 |
| Provisions \& Other Liab | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 |
| total: | 42.07 | 54.04 | 67.56 | 82.36 | 97.51 |
| APPLICATION OFFUND |  |  |  |  |  |
| Fixed A ssets ( G ross) | 19.29 | 19.29 | 19.29 | 19.29 | 19.29 |
| Gross Dep. | 2.70 | 5.03 | 7.03 | 8.75 | 10.22 |
| Net Fixed Assets | 16.59 | 14.26 | 12.26 | 10.54 | 9.07 |
| Current A ssets |  |  |  |  |  |
| Sundry Debtors | 2.04 | 2.43 | 2.74 | 3.00 | 3.06 |
| Stock in Hand | 5.80 | 6.63 | 7.46 | 4.39 | 4.74 |
| Cash and Bank | 15.15 | 27.97 | 42.08 | 61.10 | 76.98 |
| Deposits \& Advances | 2.50 | 2.75 | 3.03 | 3.33 | 3.66 |
| TOTAL: | 42.07 | 54.04 | 67.56 | 82.36 | 97.51 |
|  | - | - | - | - | - |

## PROJECTED CASH FLOW STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SOURCES OFFUND |  |  |  |  |  |
| Share Capital | 2.50 | - |  |  |  |
| Reserve \& Surplus | 14.58 | 17.74 | 21.89 | 23.68 | 24.13 |
| Depriciation \& Exp. W/ off | 2.70 | 2.33 | 2.00 | 1.71 | 1.47 |
| Increase in Cash Credit | 5.14 | - | - | - | - |
| Increase In Term Loan | 17.36 | - | - | - | - |
| Increase in Creditors | 2.13 | 0.30 | 0.30 | 0.15 | 0.15 |
| Increase in Provisions | 0.36 | 0.04 | 0.04 | 0.04 | 0.05 |
| TOTAL: | 44.77 | 20.42 | 24.24 | 25.59 | 25.80 |
| APPLICATION OFFUND |  |  |  |  |  |
| Increase in Fixed Assets | 19.29 | - | - | - | - |
| Increase in Stock | 5.80 | 0.83 | 0.83 | 3.07 | 0.35 |
| Increase in Debtors | 2.04 | 0.40 | 0.31 | 0.26 | 0.05 |
| Increase in Deposits \& Adv | 2.50 | 0.25 | 0.28 | 0.30 | 0.33 |
| Repayment of Term Loan | - | 4.34 | 4.34 | 4.34 | 4.35 |
| Taxation | - | 1.77 | 4.38 | 4.74 | 4.83 |
| TOTAL: | 29.63 | 7.59 | 10.13 | 6.57 | 9.91 |
| Opening Cash \& Bank Balance | - | 15.15 | 27.97 | 42.08 | 61.10 |
| Add : Surplus | 15.15 | 12.82 | 14.11 | 19.02 | 15.88 |
| Closing Cash \& Bank Balance | 15.15 | 27.97 | 42.08 | 61.10 | 76.98 |

## PROJECTED PROFITABILITY STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A) SALES |  |  |  |  |  |
| Gross Sale | 87.28 | 104.34 | 117.47 | 128.72 | 131.00 |
| Total (A) | 87.28 | 104.34 | 117.47 | 128.72 | 131.00 |
| B) COST OF SALES |  |  |  |  |  |
| Raw Mateiral Consumed | 42.55 | 48.63 | 54.71 | 57.75 | 60.79 |
| Elecricity Expenses | 4.52 | 5.16 | 5.81 | 6.13 | 6.45 |
| Repair \& M aintenance | - | 1.04 | 1.17 | 1.29 | 1.31 |
| Labour \& Wages | 15.84 | 17.42 | 19.17 | 21.08 | 23.19 |
| Depriciation | 2.70 | 2.33 | 2.00 | 1.71 | 1.47 |
| Consumables and Other Expenses | 1.75 | 2.09 | 2.35 | 2.57 | 2.62 |
| Cost of Production | 67.36 | 76.68 | 85.21 | 90.54 | 95.83 |
| Add: Opening Stock /WIP | - | 3.68 | 4.20 | 4.73 | 1.50 |
| Less: Closing Stock /WIP | 3.68 | 4.20 | 4.73 | 1.50 | 1.70 |
| Cost of Sales (B) | 63.68 | 76.16 | 84.68 | 93.76 | 95.63 |
| C) GROSS PROFIT (A-B) | 23.60 | 28.19 | 32.79 | 34.96 | 35.37 |
|  | 27\% | 27\% | 28\% | 27\% | 27\% |
| D) Bank Interest (Term Loan ) | 1.50 | 1.81 | 1.31 | 0.81 | 0.31 |
| Bank Interest ( C.C. Limit) | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| E) Salary to Staff | 2.64 | 2.90 | 3.19 | 3.51 | 3.87 |
| F) Selling \& Adm Expenses Exp. | 4.36 | 5.22 | 5.87 | 6.44 | 6.55 |
| TOTAL (D+E) | 9.02 | 10.44 | 10.89 | 11.27 | 11.24 |
| H) NET PROFIT | 14.58 | 17.74 | 21.89 | 23.68 | 24.13 |
| I) Taxation | - | 1.77 | 4.38 | 4.74 | 4.83 |
| J) PROFIT (After Tax) | 14.58 | 15.97 | 17.52 | 18.95 | 19.30 |

## COMPUTATION OF COIR PITH BLOCK MAKING UNIT

Items to be M anufactured
COIR PITH BLOCK MAKING UNIT

| M anufacturing Capacity per machine per day | - | 6.00 | MT |
| :---: | :---: | :---: | :---: |
|  | - |  |  |
| No. of Working Hour |  | 8 |  |
|  |  |  |  |
| No of Shift per day |  | 1 |  |
|  |  |  |  |
| No of Machines |  | 1 |  |
|  |  |  |  |
| No of Working Days per month |  | 25 |  |
|  |  |  |  |
| No. of Working Day per annum |  | 175 |  |
|  |  |  |  |
| Total Production per Annum |  | 1,050.00 | MT |
|  |  |  |  |
| Year |  | Capacity | Curled Rope MT |
|  |  | Utilisation |  |
|  |  |  |  |
| IST YEAR |  | 70\% | 735 |
| IIND YEAR |  | 80\% | 840 |
| IIIRD YEAR |  | 90\% | 945 |
| IVTH YEAR |  | 95\% | 998 |
| VTH YEAR |  | 100\% | 1,050 |
|  |  |  |  |

## COM PUTATION OF RAW MATERIAL



COMPUTATION OF SALE

| Particulars | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 37 | 42 | 47 | 15 |
|  |  |  |  |  |  |
| Production | 735 | 840 | 945 | 998 | 1,050 |
|  |  |  |  |  |  |
|  | 735 | 877 | 987 | 1,045 | 1,065 |
| Less : Closing Stock | 37 | 42 | 47 | 15 | 17 |
|  |  |  |  |  |  |
| Net Sale | 698 | 835 | 940 | 1,030 | 1,048 |
|  |  |  |  |  |  |
| Sale Price per MT | 12,500.00 | 12,500.00 | 12,500.00 | 12,500.00 | 12,500.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 87.28 | 104.34 | 117.47 | 128.72 | 131.00 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

COM PUTATION OF ELECTRICITY

| (A) POWER CONNECTION |  |  |  |
| :---: | :---: | :---: | :---: |
| Total Working Hour per day | Hours | 8 |  |
| Electric Load Required | HP | 20 |  |
| Load Factor |  | 0.7460 |  |
| Electricity Charges | per unit | 8.00 |  |
| Total Working Days |  | 300 |  |
| Electricity Charges ( 8 H rs Per day ) |  |  | 2,86,464.00 |
|  |  |  |  |
| Add : Minimim Charges (@10\%) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| (B) D.G. SET |  |  |  |
| No. of Working Days |  | 300 | days |
| No of Working Hours |  | 2 | Hour per day |
| Total no of Hour |  | 600 |  |
| Diesel Consumption per Hour |  | 8 |  |
| Total Consumption of Diesel |  | 4,800 |  |
| Cost of Diesel |  | 65.00 | Rs. / Ltr |
| Total cost of Diesel |  | 3.12 |  |
| Add : Lube Cost @15\% |  | 0.47 |  |
| Total |  | 3.59 |  |
|  |  |  |  |
| Total cost of Power \& Fuel at 100\% |  |  | 6.45 |
|  |  |  |  |
| Year | Capacity |  | Amount |
|  |  |  | (in Lacs) |
|  |  |  |  |
| IST YEAR | 70\% |  | 4.52 |
| IIND YEAR | 80\% |  | 5.16 |
| IIIRD YEAR | 90\% |  | 5.81 |
| IVTH YEAR | 95\% |  | 6.13 |
| VTH YEAR | 100\% |  | 6.45 |
|  |  |  |  |

COM PUTATION OF CLOSING STOCK \& WORKING CAPITAL

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Finished G oods |  |  |  |  |  |
| (15 Days requirement) | 3.68 | 4.20 | 4.73 | 1.50 | 1.70 |
| Raw Material |  |  |  |  |  |
| (15 Days requirement) | 2.13 | 2.43 | 2.74 | 2.89 | 3.04 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Closing Stock | $\mathbf{5 . 8 0}$ | $\mathbf{6 . 6 3}$ | $\mathbf{7 . 4 6}$ | $\mathbf{4 . 3 9}$ | $\mathbf{4 . 7 4}$ |

COMPUTATION OF WORKING CAPITAL REQUIREMENT

| Particulars |  |  | Total |
| :--- | :--- | :--- | ---: |
|  |  |  | Amount |
| Stock in Hand |  |  | 5.80 |
|  |  |  |  |
| Sundry Debtors |  |  | 2.04 |
|  |  | Total | 7.84 |
| Sundry Creditors |  |  | 2.13 |
|  |  |  | 5.71 |
| Working Capital Requirement |  |  | 0.57 |
|  |  |  |  |
| Margin |  |  | 5.14 |
|  |  |  |  |

## BREAK UP OF LABOUR

| Particulars |  | Wages | No of | Total |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Per Month | Employees | Salary |
|  |  |  |  |  |
| Skilled Worker |  | $10,000.00$ | 4 | $40,000.00$ |
| Unskilled Worker |  | $5,000.00$ | 16 | $80,000.00$ |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  | $1,20,000.00$ |
| Add: 10\% Fringe Benefit |  |  |  | $12,000.00$ |
| Total Labour Cost Per Month |  |  |  | $1,32,000.00$ |
| Total Labour Cost for the year (In Rs. Lakhs) |  |  |  | 15.84 |

BREAK UP OF SALARY

| Particulars |  | Salary | No of | Total |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Per Month | Employees | Salary |
| Manager |  | $12,000.00$ | 1 | $12,000.00$ |
| Accountant |  | $8,000.00$ | 1 | $8,000.00$ |
|  |  |  |  |  |
| Total Salary Per Month |  |  |  | $20,000.00$ |
|  |  |  |  | $2,000.00$ |
| Add: 10\% Fringe Benefit |  |  |  | $22,000.00$ |
| Total Salary for the month |  |  |  | 2.64 |
|  |  |  |  |  |
| Total Salary for the year ( In Rs. Lakhs) |  |  |  |  |

## COM PUTATION OF DEPRECIATION

| Description | Land | Building/ shed | Plant \& | Furniture | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Machinery |  |  |
|  |  |  |  |  |  |
| Rate of Depreciation |  | 10.00\% | 15.00\% | 10.00\% |  |
| Opening Balance | Leased | - | - | - | - |
| Addition | - | 3.00 | 15.87 | 0.42 | 19.29 |
|  | - | 3.00 | 15.87 | 0.42 | 19.29 |
| Less : Depreciation | - | 0.30 | 2.38 | 0.02 | 2.70 |
| WDV at end of Ist year | - | 2.70 | 13.49 | 0.40 | 16.59 |
| Additions During The Year | - | - | - | - | - |
|  | - | 2.70 | 13.49 | 0.40 | 16.59 |
| Less: Depreciation | - | 0.27 | 2.02 | 0.04 | 2.33 |
| WDV at end of IInd Year | - | 2.43 | 11.47 | 0.36 | 14.26 |
| Additions During The Year | - | - | - | - | - |
|  | - | 2.43 | 11.47 | 0.36 | 14.26 |
| Less : Depreciation | - | 0.24 | 1.72 | 0.04 | 2.00 |
| WDV at end of IIIrd year | - | 2.19 | 9.75 | 0.32 | 12.26 |
| Additions During The Year | - | - | - | - | - |
|  | - | 2.19 | 9.75 | 0.32 | 12.26 |
| Less : Depreciation | - | 0.22 | 1.46 | 0.03 | 1.71 |
| WDV at end of IV year | - | 1.97 | 8.28 | 0.29 | 10.54 |
| Additions During The Year | - | - | - | - | - |
|  | - | 1.97 | 8.28 | 0.29 | 10.54 |
| Less: Depreciation | - | 0.20 | 1.24 | 0.03 | 1.47 |
| WDV at end of Vth year | - | 1.77 | 7.04 | 0.26 | 9.07 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  | 11.5\% |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Particulars | Amount | Addition | Total | Interest | Repayment | CI Balance |
| IST YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 17.36 | 17.36 | - | - | 17.36 |
|  | lind Quarter | 17.36 | - | 17.36 | 0.50 | - | 17.36 |
|  | IIIrd Quarter | 17.36 | - | 17.36 | 0.50 | - | 17.36 |
|  | Ivth Quarter | 17.36 | - | 17.36 | 0.50 | - | 17.36 |
|  |  |  |  |  | 1.50 | - |  |
| IIND YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 17.36 | - | 17.36 | 0.50 | 1.09 | 16.28 |
|  | lind Quarter | 16.28 | - | 16.28 | 0.47 | 1.09 | 15.19 |
|  | IIIrd Quarter | 15.19 | - | 15.19 | 0.44 | 1.09 | 14.11 |
|  | Ivth Quarter | 14.11 |  | 14.11 | 0.41 | 1.09 | 13.02 |
|  |  |  |  |  | 1.81 | 4.34 |  |
| IIIRD YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 13.02 | - | 13.02 | 0.37 | 1.09 | 11.94 |
|  | lind Quarter | 11.94 | - | 11.94 | 0.34 | 1.09 | 10.85 |
|  | IIIrd Quarter | 10.85 | - | 10.85 | 0.31 | 1.09 | 9.77 |
|  | Ivth Quarter | 9.77 |  | 9.77 | 0.28 | 1.09 | 8.68 |
|  |  |  |  |  | 1.31 | 4.34 |  |
| IVTH YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 8.68 | - | 8.68 | 0.25 | 1.09 | 7.60 |
|  | lind Quarter | 7.60 | - | 7.60 | 0.22 | 1.09 | 6.51 |
|  | IIIrd Quarter | 6.51 | - | 6.51 | 0.19 | 1.09 | 5.43 |
|  | Ivth Quarter | 5.43 |  | 5.43 | 0.16 | 1.09 | 4.34 |
|  |  |  |  |  | 0.81 | 4.34 |  |
| Vth year | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 4.34 | - | 4.34 | 0.12 | 1.09 | 3.26 |
|  | lind Quarter | 3.26 | - | 3.26 | 0.09 | 1.09 | 2.17 |
|  | IlIrd Quarter | 2.17 | - | 2.17 | 0.06 | 1.09 | 1.08 |
|  | Ivth Quarter | 1.08 |  | 1.08 | 0.03 | 1.09 | 0.01 |
|  |  |  |  |  | 0.31 | 4.35 |  |

## CALCULATION OF D.S.C.R

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| CASH ACCRUALS | 17.29 | 18.30 | 19.51 | 20.66 | 20.77 |
|  |  |  |  |  |  |
| Interest on Term Loan | 1.50 | 1.81 | 1.31 | 0.81 | 0.31 |
|  |  |  |  |  |  |
| Total | 18.78 | 20.11 | 20.82 | 21.47 | 21.08 |
|  |  |  |  |  |  |
| REPA YMENT |  |  |  |  |  |
| Instalment of Term Loan | 4.34 | 4.34 | 4.34 | 4.35 | 4.35 |
| Interest on Term Loan | 1.50 | 1.81 | 1.31 | 0.81 | 0.31 |
|  |  |  |  |  |  |
| Total | 5.84 | 6.15 | 5.65 | 5.16 | 4.66 |
|  |  |  |  |  |  |
| DEBT SERVICE COVERAGERATIO | 3.22 | 3.27 | 3.69 | 4.16 | 4.52 |
|  |  |  |  |  |  |
| AVERAGE D.S.C.R. |  |  | 3.77 |  |  |

BREAK EVEN POINT ANALYSIS

| Year | I | II | III | IV | V |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Net Sales \& Other Income | 87.28 | 104.34 | 117.47 | 128.72 | 131.00 |
| Less: Op. WIP Goods | - | 3.68 | 4.20 | 4.73 | 1.50 |
| Add : Cl. WIP Goods | 3.68 | 4.20 | 4.73 | 1.50 | 1.70 |
| Total Sales | 90.96 | 104.87 | 117.99 | 125.49 | 131.20 |
| Variable \& Semi Variable Exp. |  |  |  |  |  |
| Raw Material \& Tax | 42.55 | 48.63 | 54.71 | 57.75 | 60.79 |
| Electricity Exp/Coal Consumption at 85\% | 3.84 | 4.39 | 4.94 | 5.21 | 5.48 |
| M anufacturing Expenses 80\% | 1.40 | 2.50 | 2.82 | 3.09 | 3.14 |
| Wages \& Salary at 60\% | 11.09 | 12.20 | 13.42 | 14.76 | 16.23 |
| Selling \& adminstrative Expenses 80\% | 3.49 | 4.17 | 4.70 | 5.15 | 5.24 |
| Intt. On Working Capital Loan | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Total Variable \& Semi Variable Exp | 62.88 | 72.41 | 81.10 | 86.47 | 91.41 |
| Contribution | 28.07 | 32.46 | 36.90 | 39.02 | 39.79 |
| Fixed \& Semi Fixed Expenses |  |  |  |  |  |
| M anufacturing Expenses 20\% | 0.35 | 0.63 | 0.70 | 0.77 | 0.79 |
| Electricity Exp/Coal Consumption at 15\% | 0.68 | 0.77 | 0.87 | 0.92 | 0.97 |
| Wages \& Salary at 40\% | 7.39 | 8.13 | 8.94 | 9.84 | 10.82 |
| Interest on Term Loan | 1.50 | 1.81 | 1.31 | 0.81 | 0.31 |
| Depreciation | 2.70 | 2.33 | 2.00 | 1.71 | 1.47 |
| Selling \& adminstrative Expenses 20\% | 0.87 | 1.04 | 1.17 | 1.29 | 1.31 |
| Total Fixed Expenses | 13.49 | 14.72 | 15.00 | 15.34 | 15.67 |
| Capacity Utilization | 70\% | 80\% | 90\% | 90\% | 100\% |
| OPERATING PROFIT | 14.58 | 17.74 | 21.89 | 23.68 | 24.13 |
| BREAK EVEN POINT | 34\% | 36\% | 37\% | 35\% | 39\% |
| BREAK EVEN SALES | 43.71 | 47.55 | 47.98 | 49.34 | 51.65 |

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