## PROJECT REPORT

## Of

## CORRUGATED BOXES

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Corrugated Boxes

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
2 Constitution (legal Status)
3 Father's/ Spouce's Name
4 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
9 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 A nnual Sales Turnover
16 Detailed Cost of Project \& Means of Finance

COST OF PROJECT

| (Rs. In Lacs) |  |
| :--- | ---: |
| Particulars | Amount |
| Land | Rented/ Owned |
| Building \& Civil Work | Rented/ Owned |
| Plant \& Machinery | 15.65 |
| Furniture \& Fixtures | 0.50 |
| Preoperative Expenses | 0.50 |
| Working Capital Requirement | 8.19 |
| Total | $\mathbf{2 4 . 8 4}$ |

MEANS OF FINANCE

| Particulars | Amount |
| :--- | ---: |
| Own Contribution @10\% | 2.48 |
| Term Loan | 14.99 |
| Workign Capital Finance | 7.37 |
| Total | $\mathbf{2 4 . 8 4}$ |


|  | General | Special |
| :--- | ---: | :--- |
| KVIC Margin Monery | Urban | $15 \%$ |

PLANT \& MACHINERY

| PARTICULARS | QTY. | RATE |  |
| :--- | :---: | ---: | ---: |
| Cutting machine | 1.00 | $1,90,000.00$ | $1,90,000.00$ |
| Paper Pasting machine size 75" <br> complete with motor | 1.00 | $7,00,000.00$ | $7,00,000.00$ |
| Stapler 3"" | 1.00 | $75,000.00$ | $75,000.00$ |
| Testing Equipment, Physical <br> Balance meter scales | 1.00 | $60,000.00$ | $60,000.00$ |
|  <br> sizing | 1.00 | $1,80,000.00$ | $1,80,000.00$ |
| $\quad$ Eccentric Slotter | 1.00 | $1,90,000.00$ | $1,90,000.00$ |
| Generator set 5 KVA | 1.00 | $1,20,000.00$ | $1,20,000.00$ |
| Packaging Material | 1.00 | $50,000.00$ | $50,000.00$ |

## CORRUGATED BOXES



## 1. INTRODUCTION

Corrugated cardboard is generally used to make packing or shipping containers. Though there are various other types of cardboard boxes available, corrugated cardboard boxes are the most suitable for maintaining the safety of the object it is carrying, especially for long distance shipping purposes. This is because they are made of corrugated paper, manufactured from fiber and is sandwiched by cardboard. This setup makes it very sturdy and ensures the delivery of the articles that it is carrying with zero damage. While some corrugated boxes are made out of plastic, the majority is limited to paper. Corrugated boxes confirm safety and protection of the product being shipped. It also offers durability, cost effectiveness, lightness, strength and recyclability which make it an ideal choice for merchandising and marketing of goods with ease. They are also known to have a good stacking strength. Stacking strength refers to the pressure that is formed during stacking. This is a great advantage for transportation. The stacking strength of the corrugated box also plays a vital role in providing crush resistance and product protection.

Corrugated is made of paper and has an arched layer, called "fluting," between smooth sheets, called "liner." This arched layer provides corrugated with a very high strength-toweight ratio.

The corrugated most commonly used to make boxes has one layer of fluting between two smooth sheets. But there are many types of corrugated available, each with different flute sizes and thicknesses.

Corrugated Paper boxes are extensively used in the packaging of industrial as well as consumer goods. In some of products like crockery, electronic items, automobile components, glass and cigarettes, pharmaceuticals, soaps \& cosmetics, biscuits, hosiery, toys, rubber \& rubber products, refrigerator, cooler \& fans, proper type of packaging becomes very important.

## 2. PRODUCTS AND ITS APPLICATION

Corrugated is an extremely durable, versatile, economical and lightweight material used for custom-manufactured shipping containers, packaging and point-of-purchase displays, in addition to numerous non-traditional applications ranging from pallets to children's toys to furniture

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## 3. INDUSTRY OUTLOOK AND TREND

Does paper have a future in the digital age? Ultimately, it is a question best answered by the needs of the consumers, but based on the global demand outlook; consumers still want paper well into the 21st century. World demand for paper has doubled in the past 20 years and it is forecast to double again by the year 2020 .

Per capita consumption of paper \& paper board in India at 5 Kg is very low compared to other developing countries like China and Brazil. Therefore, despite the threat of paperless transaction, scope for paper demand appears to be bright. In developed nations it is as high as 160 Kgs per annum.

The challenge for the Indian paper industry to meet the ever-increasing demand of paper, board and newsprint is getting crippled due to shortage of fibers in the country. The future demand of paper is expected to grow from 13 MT at present TO 20 MT in 2020. Demand for cream wove paper and Map litho paper is expected to increase by 7-8\%. Demand for different kinds of coated paper has increased by 8\%, duplex board has recorded increase by $6.5 \%$, kraft paper has registered a $6 \%$ rise in demand and newsprint an impressive $10 \%$.

## 4. MARKET POTENTIAL AND MARKETING ISSUES, IF ANY

With the steady rise in the industrial production, the demand for corrugated paper boxes increasing every year. These boxes have got distinct advantages such as light in weight, easy to fabricate as per required specifications. The corrugated papers and boards may also find market in the rural areas for packing of fruits, vegetables \& eggs.

## 5. RAW MATERIAL REQUIREMENTS

- Craft Papers
- Glue
- Staples wire etc.
- Packaging Material


## 6. MANUFACTURING PROCESS

Calculation has been based on single corrugated sheet pasted with one sheet of craft paper. Two paper reels are run together on corrugated machine. One layer of paper becomes corrugated after passing through the heated fluted rolls and other is brought in contact with the former having been glued at the tips. These two get pasted together and are wound in rolls. These will be procured on job work. By cutting this roll with board cutters and gluing the corrugated side on pasting machine. A double face board is produced by the 3rd ply of paper over it. This board is kept under a sheet pressing machines for some time for setting of wet glued sheets. Similarly board to board can be pasted to form thicker board i.e. 5 Ply, 7 Ply and 9 Ply etc.

| PROJECTED BALANCE SHEET |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| SOURCES OF FUND |  |  |  |  |  |
| Capital Account | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 |
| Retained Profit | 3.11 | 7.81 | 14.57 | 23.75 | 35.21 |
| Term Loan | 14.99 | 11.24 | 7.49 | 3.75 | - |
| Cash Credit | 7.37 | 7.37 | 7.37 | 7.37 | 7.37 |
| Sundry Creditors | 0.84 | 1.01 | 1.18 | 1.34 | 1.51 |
| Provisions \& Other Liab | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 |
| TOTAL: | 29.14 | 30.31 | 33.52 | 39.17 | 47.10 |
| APPLICATION OFFUND |  |  |  |  |  |
| Fixed Assets ( G ross) | 16.15 | 16.15 | 16.15 | 16.15 | 16.15 |
| Gross Dep. | 2.37 | 4.42 | 6.15 | 7.63 | 8.89 |
| Net Fixed Assets | 13.78 | 11.73 | 10.00 | 8.52 | 7.26 |
| Current A ssets |  |  |  |  |  |
| Sundry Debtors | 4.31 | 5.40 | 6.31 | 7.21 | 8.12 |
| Stock in Hand | 4.72 | 5.66 | 6.60 | 7.55 | 8.49 |
| Cash and Bank | 3.34 | 4.22 | 6.99 | 11.90 | 18.85 |
| Deposits \& Advances | 3.00 | 3.30 | 3.63 | 3.99 | 4.39 |
| TOTAL: | 29.14 | 30.31 | 33.52 | 39.17 | 47.10 |
|  | - | - | - | - | - |


| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SOURCES OFFUND |  |  |  |  |  |
| Share Capital | 2.48 | - |  |  |  |
| Reserve \& Surplus | 3.11 | 5.23 | 8.44 | 11.48 | 14.33 |
| Depriciation \& Exp. W/ off | 2.37 | 2.04 | 1.74 | 1.48 | 1.26 |
| Increase in Cash Credit | 7.37 | - | - | - | - |
| Increase In Term Loan (New) | 14.99 | - | - | - | - |
| Increase in Creditors | 0.84 | 0.17 | 0.17 | 0.17 | 0.17 |
| Increase in Provisions | 0.36 | 0.04 | 0.04 | 0.04 | 0.05 |
| TOTAL: | 31.52 | 7.48 | 10.39 | 13.17 | 15.81 |

## APPLICATION OF FUND

| Increase in Fixed Assets | 16.15 | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Increase in Stock | 4.72 | 0.94 | 0.94 | 0.94 | 0.94 |
| Increase in Debtors | 4.31 | 1.09 | 0.91 | 0.91 | 0.91 |
| Increase in Deposits \& Adv | 3.00 | 0.30 | 0.33 | 0.36 | 0.40 |
| Repayment of Term Loan ( New ) | - | 3.75 | 3.75 | 3.75 | 3.75 |
| Taxation | - | 0.52 | 1.69 | 2.30 | 2.87 |
| TOTAL: | 28.18 | 6.60 | 7.62 | 8.26 | 8.86 |
| Opening Cash \& Bank Balance | - | 3.34 | 4.22 | 6.99 | 11.90 |
| Add : Surplus | 3.34 | 0.87 | 2.77 | 4.91 | 6.94 |
| Closing Cash \& Bank Balance | 3.34 | 4.22 | 6.99 | 11.90 | 18.85 |


| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A) SALES |  |  |  |  |  |
| Gross Sale | 61.56 | 77.11 | 90.07 | 103.03 | 115.99 |
| Total (A) | 61.56 | 77.11 | 90.07 | 103.03 | 115.99 |
| B) COST OF SALES |  |  |  |  |  |
| Raw Mateiral Consumed | 36.00 | 43.20 | 50.40 | 57.60 | 64.80 |
| Elecricity Expenses | 5.27 | 6.33 | 7.38 | 8.44 | 9.49 |
| Repair \& M aintenance | - | 0.77 | 0.90 | 1.03 | 1.16 |
| Labour \& Wages | 7.78 | 8.55 | 9.41 | 10.35 | 11.38 |
| Depriciation | 2.37 | 2.04 | 1.74 | 1.48 | 1.26 |
| Consumables and Other Expenses | 1.23 | 1.54 | 1.80 | 2.06 | 2.32 |
| Cost of Production | 52.65 | 62.44 | 71.63 | 80.96 | 90.42 |
| Add: Opening Stock /WIP | - | 2.92 | 3.50 | 4.08 | 4.67 |
| Less: Closing Stock /WIP | 2.92 | 3.50 | 4.08 | 4.67 | 5.25 |
| Cost of Sales (B) | 49.74 | 61.85 | 71.05 | 80.37 | 89.83 |
| C) GROSS PROFIT (A-B) | 11.82 | 15.26 | 19.02 | 22.66 | 26.16 |
|  | 19\% | 20\% | 21\% | 22\% | 23\% |
| D) Bank Interest (Term Loan ) | 1.29 | 1.56 | 1.13 | 0.70 | 0.27 |
| Bank Interest ( C.C. Limit) | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| E) Salary to Staff | 4.22 | 4.65 | 5.11 | 5.62 | 6.18 |
| F) Selling \& Adm Expenses Exp. | 2.46 | 3.08 | 3.60 | 4.12 | 4.64 |
| TOTAL (D+E) | 8.72 | 10.03 | 10.58 | 11.18 | 11.83 |
| H) NET PROFIT | 3.11 | 5.23 | 8.44 | 11.48 | 14.33 |
| I) Taxation | - | 0.52 | 1.69 | 2.30 | 2.87 |
| J) PROFIT (After Tax) | 3.11 | 4.71 | 6.75 | 9.18 | 11.46 |

## COMPUTATION OF MANUFACTURING OF CORRUGATED BOXES

Items to be M anufactured Corrugated Boxes

| Manufacturing Capacity | Corrugated Box | 600 | Kg Per Day |
| :--- | ---: | ---: | ---: |
|  | - |  |  |
|  |  |  |  |
| No. of Working Hour |  | 10 |  |
|  |  |  |  |
| No of Working Days per month |  | 25 |  |
|  |  |  |  |
| No. of Working Day per annum |  | 300 |  |
|  |  | 180 | Tons per Annum |
| Total Production per Annum |  |  |  |
|  |  | Capacity | Sheet |
|  |  | Utilisation |  |
|  |  |  |  |
|  |  | $50 \%$ |  |
| Year |  | $60 \%$ |  |
| IST YEAR |  | $70 \%$ | 108 |
| IIND YEAR |  | $80 \%$ | 126 |
| IIIRD YEAR |  | $90 \%$ | 144 |
| IVTH YEAR |  |  | 162 |
| VTH YEAR |  |  |  |
|  |  |  |  |

COMPUTATION OFRAW MATERIAL


COMPUTATION OF SALE

| Particulars | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 5 | 5 | 6 | 7 |
|  |  |  |  |  |  |
| Production | 90 | 108 | 126 | 144 | 162 |
|  |  |  |  |  |  |
|  | 90 | 113 | 131 | 150 | 169 |
| Less: Closing Stock | 5 | 5 | 6 | 7 | 8 |
|  |  |  |  |  |  |
| Net Sale | 86 | 107 | 125 | 143 | 161 |
|  |  |  |  |  |  |
| Sale Price Tonnes | 72,000.00 | 72,000.00 | 72,000.00 | 72,000.00 | 72,000.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 61.56 | 77.11 | 90.07 | 103.03 | 115.99 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

COMPUTATION OF CLOSING STOCK \& WORKING CAPITAL

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Finished G oods |  |  |  |  |  |
| (15 Days requirement) | 2.92 | 3.50 | 4.08 | 4.67 | 5.25 |
| Raw M aterial |  |  |  |  |  |
| (15 Days requirement) | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Closing Stock | 4.72 | 5.66 | 6.60 | 7.55 | 8.49 |

COMPUTATION OF WORKING CAPITAL REQUIREMENT

| Particulars |  |  | Total |
| :--- | :--- | :--- | ---: |
|  |  |  | Amount |
| Stock in Hand |  |  | 4.72 |
|  |  |  | 4.31 |
| Sundry Debtors |  |  | 9.03 |
|  |  | Total | 0.84 |
| Sundry Creditors |  |  |  |
|  |  |  | $\mathbf{8 . 1 9}$ |
| Working Capital Requirement |  |  | 0.82 |
|  |  |  | $\mathbf{7 . 3 7}$ |
| Margin |  |  |  |
|  |  |  |  |
| Working Capital Finance |  |  |  |

BREAK UP OF LABOUR

| Particulars |  | Wages | No of | Total |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Per Month | Employees | Salary |
|  |  |  |  |  |
| Skilled Worker |  | $10,000.00$ | 1 | $10,000.00$ |
| Unskilled Worker |  | $8,000.00$ | 1 | $8,000.00$ |
| Casual Labour |  | $6,000.00$ | 6 | $36,000.00$ |
|  |  |  |  |  |
|  |  |  |  | $54,000.00$ |
| Add: 20\% Fringe Benefit |  |  |  | $10,800.00$ |
| Total Labour Cost Per Month |  |  | $64,800.00$ |  |
| Total Labour Cost for the year ( In Rs. Lakhs) |  |  |  | 7.78 |

BREAK UP OF SALARY

| Particulars | Salary | No of | Total |
| :---: | :---: | :---: | :---: |
|  | Per Month | Employees | Salary |
| Manager | 12,000.00 | 1 | 12,000.00 |
| A ccountant | 8,000.00 | 1 | 8,000.00 |
| Marketing Executive | 6,000.00 | 2 | 12,000.00 |
| Total Salary Per M onth |  |  | 32,000.00 |
|  |  |  |  |
| Add: 10\% Fringe Benefit |  |  | 3,200.00 |
| Total Salary for the month |  |  | 35,200.00 |
| Total Salary for the year (In Rs. Lakhs)     |  |  |  |
|  |  |  |  |

COM PUTATION OF ELECTRICITY

| (A) POWER CONNECTION |  |  |  |
| :---: | :---: | :---: | :---: |
| Total Working Hour per day |  | 8 Hrs |  |
| Electric Load Required |  | 10 KVA |  |
| Load Factor |  | 0.08 |  |
| Electricity Charges |  | 8.00 per unit |  |
| Total Working Days |  | 300 |  |
| Electricity Charges ( 8 H rs Per day ) |  |  |  |
| $=10 * 300 * 8.00 * 0.746 * 8$ |  |  | 1,43,232.00 |
| Add : Minimim Charges (@10\%) |  |  | 14,323.20 |
|  |  |  | 1,57,555.20 |
|  |  |  |  |
| (B) D.G. SET |  |  |  |
| No. of Working Days |  | 300 | days |
| No of Working Hours |  | 5 | Hour per day |
| Total no of Hour |  | 1,500 |  |
| Diesel Consumption per Hour |  | 8 |  |
| Total Consumption of Diesel |  | 12,000 |  |
| Cost of Diesel |  | 65.00 | Rs. / Ltr |
| Total cost of Diesel |  | 7.80 |  |
| Add : Lube Cost @15\% |  | 1.17 |  |
| Total |  | 8.97 |  |
|  |  |  |  |
| Total cost of Power \& Fuel at 100\% |  |  | 10.55 |
|  |  |  |  |
| Year | Capacity |  | Amount |
|  |  |  | (in Lacs) |
|  |  |  |  |
| IST YEAR | 50\% |  | 5.27 |
| IIND YEAR | 60\% |  | 6.33 |
| IIIRD YEAR | 70\% |  | 7.38 |
| IVTH YEAR | 80\% |  | 8.44 |
| VTH YEAR | 90\% |  | 9.49 |
|  |  |  |  |


| COM PUTATION OF DEPRECIATION |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Description | Land | Building | Plant \& | Furniture | TOTAL |
|  |  |  | Machinery |  |  |
|  |  |  |  |  |  |
| Rate of Depreciation |  | 10.00\% | 15.00\% | 10.00\% |  |
| Opening Balance | Leased | - | - | - | - |
| Addition | - | Rented/ Owned | 15.65 | 0.50 | 16.15 |
|  | - | - | 15.65 | 0.50 | 16.15 |
| Less: Depreciation | - | - | 2.35 | 0.03 | 2.37 |
| WDV at end of Ist year | - | - | 13.30 | 0.48 | 13.78 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 13.30 | 0.48 | 13.78 |
| Less: Depreciation | - | - | 2.00 | 0.05 | 2.04 |
| WDV at end of IInd Year | - | - | 11.31 | 0.43 | 11.73 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 11.31 | 0.43 | 11.73 |
| Less: Depreciation | - | - | 1.70 | 0.04 | 1.74 |
| WDV at end of IIIrd year | - | - | 9.61 | 0.38 | 10.00 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 9.61 | 0.38 | 10.00 |
| Less: Depreciation | - | - | 1.44 | 0.04 | 1.48 |
| WDV at end of IV year | - | - | 8.17 | 0.35 | 8.52 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 8.17 | 0.35 | 8.52 |
| Less: Depreciation | - | - | 1.23 | 0.03 | 1.26 |
| WDV at end of Vth year | - | - | 6.94 | 0.31 | 7.26 |


| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IST YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 14.99 | 14.99 | - | - | 14.99 |
|  | lind Quarter | 14.99 | - | 14.99 | 0.43 | - | 14.99 |
|  | IIIrd Quarter | 14.99 | - | 14.99 | 0.43 | - | 14.99 |
|  | Ivth Quarter | 14.99 | - | 14.99 | 0.43 | - | 14.99 |
|  |  |  |  |  | 1.29 | - |  |
| IIND YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 14.99 | - | 14.99 | 0.43 | 0.94 | 14.05 |
|  | lind Quarter | 14.05 | - | 14.05 | 0.40 | 0.94 | 13.11 |
|  | IIIrd Quarter | 13.11 | - | 13.11 | 0.38 | 0.94 | 12.18 |
|  | Ivth Quarter | 12.18 |  | 12.18 | 0.35 | 0.94 | 11.24 |
|  |  |  |  |  | 1.56 | 3.75 |  |
| IIIRD YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 11.24 | - | 11.24 | 0.32 | 0.94 | 10.30 |
|  | lind Quarter | 10.30 | - | 10.30 | 0.30 | 0.94 | 9.37 |
|  | IIIrd Quarter | 9.37 | - | 9.37 | 0.27 | 0.94 | 8.43 |
|  | Ivth Quarter | 8.43 |  | 8.43 | 0.24 | 0.94 | 7.49 |
|  |  |  |  |  | 1.13 | 3.75 |  |
| IVTH YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 7.49 | - | 7.49 | 0.22 | 0.94 | 6.56 |
|  | lind Quarter | 6.56 | - | 6.56 | 0.19 | 0.94 | 5.62 |
|  | IIIrd Quarter | 5.62 | - | 5.62 | 0.16 | 0.94 | 4.68 |
|  | Ivth Quarter | 4.68 |  | 4.68 | 0.13 | 0.94 | 3.75 |
|  |  |  |  |  | 0.70 | 3.75 |  |
| Vth year | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 3.75 | - | 3.75 | 0.11 | 0.94 | 2.81 |
|  | lind Quarter | 2.81 | - | 2.81 | 0.08 | 0.94 | 1.87 |
|  | IIIrd Quarter | 1.87 | - | 1.87 | 0.05 | 0.94 | 0.94 |
|  | Ivth Quarter | 0.94 |  | 0.94 | 0.03 | 0.94 - | 0.00 |
|  |  |  |  |  | 0.27 | 3.75 |  |

CALCULATION OF D.S.C.R

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| CASH ACCRUALS | 5.48 | 6.75 | 8.49 | 10.66 | 12.72 |
|  |  |  |  |  |  |
| Interest on Term Loan | 1.29 | 1.56 | 1.13 | 0.70 | 0.27 |
|  |  |  |  |  |  |
| Total | 6.77 | 8.31 | 9.62 | 11.36 | 12.99 |
|  |  |  |  |  |  |
| REPAYMENT |  |  |  |  |  |
| Instalment of Term Loan | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 |
| Interest on Term Loan | 1.29 | 1.56 | 1.13 | 0.70 | 0.27 |
|  |  |  |  |  |  |
| Total | 5.04 | 5.31 | 4.88 | 4.45 | 4.02 |
|  |  |  |  |  |  |
| DEBT SERVICE COVERAGERATIO | 1.34 | 1.57 | 1.97 | 2.56 | 3.24 |
|  |  |  |  |  |  |
| AVERAGE D.S.C.R. |  |  | 2.13 |  |  |

BREAK EVEN POINT ANALYSIS

| Year | I | II | III | IV | V |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Net Sales \& Other Income | 61.56 | 77.11 | 90.07 | 103.03 | 115.99 |
| Less : Op. WIP Goods |  | 2.92 | 3.50 | 4.08 | 4.67 |
| Add : Cl. WIP Goods | 2.92 | 3.50 | 4.08 | 4.67 | 5.25 |
| Total Sales | 64.48 | 77.70 | 90.66 | 103.62 | 116.58 |
| Variable \& Semi Variable Exp. |  |  |  |  |  |
| Raw M aterial \& Tax | 36.00 | 43.20 | 50.40 | 57.60 | 64.80 |
| Electricity Exp/Coal Consumption at 85\% | 4.48 | 5.38 | 6.27 | 7.17 | 8.07 |
| M anufacturing Expenses 80\% | 0.98 | 1.85 | 2.16 | 2.47 | 2.78 |
| Wages \& Salary at 60\% | 7.20 | 7.92 | 8.71 | 9.58 | 10.54 |
| Selling \& adminstrative Expenses 80\% | 1.97 | 2.47 | 2.88 | 3.30 | 3.71 |
| Intt. On Working Capital Loan | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| Total Variable \& Semi Variable Exp | 51.37 | 61.55 | 71.17 | 80.86 | 90.64 |
| Contribution | 13.10 | 16.14 | 19.49 | 22.75 | 25.93 |
| Fixed \& Semi Fixed Expenses |  |  |  |  |  |
| M anufacturing Expenses 20\% | 0.25 | 0.46 | 0.54 | 0.62 | 0.70 |
| Electricity Exp/Coal Consumption at 15\% | 0.79 | 0.95 | 1.11 | 1.27 | 1.42 |
| Wages \& Salary at 40\% | 4.80 | 5.28 | 5.81 | 6.39 | 7.03 |
| Interest on Term Loan | 1.29 | 1.56 | 1.13 | 0.70 | 0.27 |
| Depreciation | 2.37 | 2.04 | 1.74 | 1.48 | 1.26 |
| Selling \& adminstrative Expenses 20\% | 0.49 | 0.62 | 0.72 | 0.82 | 0.93 |
| Total Fixed Expenses | 9.99 | 10.91 | 11.05 | 11.28 | 11.60 |
| Capacity Utilization | 50\% | 60\% | 70\% | 80\% | 90\% |
| OPERATING PROFIT | 3.11 | 5.23 | 8.44 | 11.48 | 14.33 |
| BREAK EVEN POINT | 38\% | 41\% | 40\% | 40\% | 40\% |
| BREAK EVEN SALES | 49.18 | 52.53 | 51.38 | 51.35 | 52.16 |

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