## PROJECT REPORT

## Of

## WROUGHT IRON FURNITURE

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding WROUGHT IRON FURNITURE

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 N ame
Unit Address

Product and By Product

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 Annual Sales Turnover
16 Detailed Cost of Project \& Means of Finance

XXXXXXX
XXXXXXX
XXXXXXXX
XXXXXXXX

| Taluk/ Block: |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| District: |  | XXXXX |  |  |
| Pin: | XXXXX | State: | XXXXX |  |
| E-Mail | XXXXX |  |  |  |
| Mobile |  | XXXXX |  |  |

Wrought Iron furniture

## Wrought Iron furniture

Rs23.81lac

Rs.13.45 Lacs
As per Project Eligibility
Rs.2.38 Lacs
Rs. 7.99 Lacs
2.64

5 Years

6 Months

32\%
9 Persons
15.00 HP
forging grade hot rolled steel
67.50 Lacs

| (Rs. In Lacs) |  |
| :--- | ---: |
| Particulars | Amount |
| Land | Rented/ Owned |
| Building \& Civil Work (2000 Sq Ft) | 4.13 |
| Plant \& Machinery | 9.81 |
| Furniture \& Fixtures | 1.00 |
| Pre-operative Expenses | - |
| Working Capital Requirement | 8.87 |
| Total | $\mathbf{2 3 . 8 1}$ |

## MEANS OF FINANCE

| (Rs. In Lacs) |  |
| :--- | ---: |
| Particulars | Amount |
| Own Contribution @10\% | 2.38 |
| Term Loan | 13.45 |
| Workign Capital Finance | 7.99 |
| Total | 23.81 |
|  |  |
|  | General |
| Beneficiary's Margin Monery <br> (\% of Project Cost) | $10 \%$ | | Special |
| ---: |
| $5 \%$ |

## WROUGHT IRON FURNITURE



## INTRODUCTION:

Wrought iron is an iron alloy with a very low carbon - less than $0.08 \%$ content. Wrought iron is tough, malleable, ductile, corrosion-resistant and easily welded. The term Wrought Iron is specific to the fibrous, hand-refined material that served historically for millennia as the most used and useful form of iron. It is characterized by its composite structure. In the process of refining, iron and iron silicate are fused together. For most purposes, ductility is a more important measure of the quality of wrought iron than tensile strength.

Wrought iron is no longer produced on a commercial scale. At present, most products described as wrought iron, are actually made of hot rolled forgeable steel, viz. Guard rails, garden furniture gates etc. of ornamental designs.

## PRODUCT \& ITS APPLICATION:

The so called "Wrought iron furniture" is now made from hot rolled forging grade mild steel having good ductility, is used to make home decor items such as racks, table bases, desks, gates, beds, candle holders, curtain rods, bars and bar stools, fences and railing, with ornate designs.

Furniture is a product of design with several sizes, shapes and décor, to provide appealing aesthetics in addition to convenience and space saving. It serves as a form of decorative art. The "wrought Iron" or hot rolled products are easy to process and get desired shapes and ornate designs and may fulfill the purpose of designer or artists.

## INDUSTRY OUTLOOK/TREND

The furniture market in India is highly fragmented with majority of the revenue being generated by unorganized sector, which includes onsite carpenters, independent furniture manufacturers and domestic retailers have accounted for nearly $85 \%$ of the furniture market revenue in the country. In the recent years, wrought iron furniture have found a niche market due to its unique designs and ornate designs.

The Indian furniture market, which has grown at a CAGR of $17.2 \%$ in last decade. The economic growth and policies of house for all, huge infrastructure investments, etc is likely to see annual rate growth of $15 \%$ for next $5 \sim 7$ year period. Heavy demand of household items including furniture and furnishing products from the urban class has historically been conducive to the growth of furniture market in India. This trend is expected stay in the future as well, as greater number of people are even in semi urban and rural areas are aspiring to achieve rise in the standard of living.

The outlook of furniture industry prospects remains optimistic, mainly driven by the demand from construction, household remodeling, commercial etc sectors; due to recent economic and industrial policies and measures taken by government.

## MARKET POTENTIAL AND MARKETING ISSUES. IF ANY:

Demand for "Wrought Iron" furniture is generated from high income group in residential, commercial and office building as also from public place construction as it provides excellent aesthetic appeal for landscaping and decoration.

In view of growing income and standard of living and growth of construction industry at a rapid rate in the country, there is scope for these items. It is recommended to develop and produce aesthetic and modular design or art for use in furniture components and outdoor use with good ornate and intricate engraved floral shapes. Railing, fences, poles and furniture legs are the most in demand for wrought iron furniture items.

The growing phase of infrastructure and real estate market has augmented the demand for furniture products in the country. In the organized retail segment, the market is occupied by leading companies such as Godrej Interio, Home centre, Nilkamal, Durian Furniture, Style Spa among others, which have over the years grabbed significant position in the domestic market. Furthermore, the entry of international brands like IKEA etc is likely to strengthen trend for modular design and brand awareness.

The scope is good for furniture units in the recent that offer modular designs for furniture retailing in India. It is recommended to develop and produce aesthetic and modular design of furniture components with precision and good decor.

## RAW MATERIAL REQUIREMENTS:

The forging grade hot rolled steel in various sections are the main raw materials for the project. The other items are consumables like welding rods, heat treatment and surface treatment chemicals.

## MANUFACTURING PROCESS:

The process of manufacture involves operations as below.

- Cutting of material sheets, tubes, pipes, sections as per required dimensions. Cutting is done by sawing, shearing, or chiseling or torching with hand-held torches. Certain components like cast iron and steel stock may be machined.
- Bending of steel rods, pipes etc. of round, and square, rectangular shape is done by hammering, with manual bending tools or via press.
- Black smithy has always been involved in wrought iron item fabrication and several process steps are cutting, splitting shaping and hot welding. The material with Artistic floral designs can be open die forged and hot welded to get the products similar to wrought iron quality.
- Assembling (joining of the pieces) is done by welding, hot forge welding, riveting, fasteners, or crimping. After the forging and welding the item is cooled and sand blasted.

It may undergo various surface treatments, coating polishing and painting. The assembly process is then completed. The finished product is then inspected and shipped.

## PLANT \& MACHINERY

| Particulars | UOM | Quantity | Rate | Total Value |
| :--- | :---: | :---: | :---: | :---: |
| Main Machines/ Equipment |  |  |  |  |
| Rod Twisting machine | Nos | 1 | 160000 | 160000 |
| Hand Shear Machines | Nos | 3 | 12000 | 36000 |
| Fly press | Nos | 1 | 20000 | 20000 |
| Manual Press brake | Nos | 1 | 50000 | 50000 |
| Forging Furnace | Nos | 1 | 100000 | 100000 |
| Open Die forging Hammer | Nos | 1 | 230000 | 230000 |
| Hot Forging Tools | LS | 1 | 25000 | 25000 |
| Sand Blasting Facility | Nos | 1 | 80000 | 80000 |
| Pickling and Surface treatment | Nos | 1 | 60000 | 60000 |
| Spray Painting Facility | Nos | 1 | 30000 | 30000 |
| Rod / Flat/ Pipe Bending Bench | Nos | 2 | 20000 | 40000 |
| Pillar Drill | Nos | 1 | 30000 | 30000 |
| Lathe | Nos | 1 | 45000 | 45000 |
| Welding Machine | Nos | 2 | 25000 | 50000 |
| Tools and Ancillaries |  |  |  |  |
| Misc. equipment Dies tools etc. | LS | 1 | 15000 | 15000 |
| Hand Tools and gauges | LS | 1 | 10000 | 10000 |
| TOTAL PLANT MACHINERY COST |  |  |  | $\mathbf{9 8 1 0 0 0}$ |
| Fixtures and Elect Installation |  |  |  |  |
| Storage and transport bins | LS | 1 | 10000 | 10000 |
| Office Furniture | LS | 1 | 5000 | 5000 |
| Telephones/ Computer | LS | 1 | 15000 | 15000 |
| Electrical Installation | LS | 1 | 70000 | 70000 |
| Furniture and Fixture |  |  |  | $\mathbf{1 0 0 0 0 0}$ |


| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SOURCES OFFUND |  |  |  |  |  |
| Capital Account | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 |
| Retained Profit | 4.63 | 12.41 | 22.14 | 33.00 | 44.72 |
| Term Loan | 13.45 | 10.08 | 6.72 | 3.36 | 0.00 |
| Cash Credit | 7.99 | 7.99 | 7.99 | 7.99 | 7.99 |
| Sundry Creditors | 1.19 | 1.43 | 1.67 | 1.79 | 1.90 |
| Provisions \& Other Liab | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 |
| TOTAL: | 29.99 | 34.69 | 41.33 | 48.99 | 57.52 |
| APPLICATION OFFUND |  |  |  |  |  |
| Fixed Assets ( G ross) | 10.81 | 10.81 | 10.81 | 10.81 | 10.81 |
| Gross Dep. | 1.52 | 2.87 | 4.02 | 5.00 | 5.83 |
| Net Fixed A ssets | 9.29 | 7.94 | 6.79 | 5.81 | 4.98 |
| Current A ssets |  |  |  |  |  |
| Sundry Debtors | 2.36 | 3.10 | 3.62 | 3.91 | 4.17 |
| Stock in Hand | 7.70 | 10.26 | 11.97 | 12.83 | 13.68 |
| Cash and Bank | 8.14 | 10.64 | 15.92 | 23.11 | 31.03 |
| Deposits \& Advances | 2.50 | 2.75 | 3.03 | 3.33 | 3.66 |
| TOTAL: | 29.99 | 34.69 | 41.33 | 48.99 | 57.52 |


| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |

## 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 OFFUND

| Increase in Fixed Assets | 10.81 | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Increase in Stock | 7.70 | 2.56 | 1.71 | 0.86 | 0.86 |
| Increase in Debtors | 2.36 | 0.74 | 0.53 | 0.29 | 0.26 |
| Increase in Deposits \& Adv | 2.50 | 0.25 | 0.28 | 0.30 | 0.33 |
| Repayment of Term Loan | - | 3.36 | 3.36 | 3.36 | 3.36 |
| Taxation | 0.51 | 0.86 | 2.43 | 2.71 | 2.93 |
| TOTAL: | 23.89 | 7.77 | 8.30 | 7.52 | 7.74 |
| Opening Cash \& Bank Balance | - | 8.14 | 10.64 | 15.92 | 23.11 |
| Add : Surplus | 8.14 | 2.50 | 5.29 | 7.19 | 7.92 |
| Closing Cash \& Bank Balance | 8.14 | 10.64 | 15.92 | 23.11 | 31.03 |


| PROJECTED PROFITABILITY STATEMENT |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| A) SALES |  |  |  |  |  |
| Gross Sale | 67.50 | 88.50 | 103.50 | 111.75 | 119.25 |
| Scrap Sales 5\% | 3.38 | 4.43 | 5.18 | 5.59 | 5.96 |
| Total (A) | 70.88 | 92.93 | 108.68 | 117.34 | 125.21 |
| B) COST OF SALES |  |  |  |  |  |
| Raw Mateiral Consumed | 51.00 | 61.20 | 71.40 | 76.50 | 81.60 |
| Elecricity Expenses | 2.87 | 3.44 | 4.02 | 4.30 | 4.59 |
| Repair \& M aintenance | - | 0.89 | 1.04 | 1.12 | 1.19 |
| Labour \& Wages | 7.66 | 8.42 | 9.26 | 10.19 | 11.21 |
| Depriciation | 1.52 | 1.35 | 1.15 | 0.98 | 0.84 |
| Consumables and Other Expenses | 1.42 | 1.86 | 2.17 | 2.35 | 2.50 |
| Cost of Production | 64.46 | 77.15 | 89.04 | 95.44 | 101.93 |
| Add: Opening Stock /WIP | - | 6.00 | 7.20 | 8.40 | 9.00 |
| Less: Closing Stock /WIP | 6.00 | 7.20 | 8.40 | 9.00 | 9.60 |
| Cost of Sales (B) | 58.46 | 75.95 | 87.84 | 94.84 | 101.33 |
| C) GROSS PROFIT (A-B) | 12.41 | 16.97 | 20.84 | 22.50 | 23.88 |
|  | 18\% | 19\% | 20\% | 20\% | 20\% |
| D) Bank Interest (Term Loan ) | 1.16 | 1.40 | 1.01 | 0.63 | 0.24 |
| Bank Interest ( C.C. Limit) | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| E) Salary to Staff | 3.96 | 4.36 | 4.79 | 5.27 | 5.80 |
| F) Selling \& Adm Expenses Exp. | 1.35 | 1.77 | 2.07 | 2.24 | 2.39 |
| TOTAL (D+E) | 7.27 | 8.33 | 8.67 | 8.93 | 9.22 |
| H) NET PROFIT | 5.14 | 8.65 | 12.16 | 13.57 | 14.66 |
| 1) Taxation | 0.51 | 0.86 | 2.43 | 2.71 | 2.93 |
| J) PROFIT (After Tax) | 4.63 | 7.78 | 9.73 | 10.85 | 11.73 |

## COMPUTATION OF MANUFACTURING OF WROUGHT IRON FURNITURE

Items to be M anufactured
Wrought Iron furniture
H ome decor items such as racks, table bases, desks, gates, beds, candle holders, curtain rods, bars and bar stools, fences and railing, with ornate designs.

| Manufacturing Capacity shift | - | 10.00 | Items |
| :--- | ---: | ---: | ---: |
|  | - |  |  |
| No. of Working Hour |  | 8 |  |
|  |  | 25 |  |
| No of Working Days per month |  |  |  |
|  |  | 300 |  |
| No. of Working Day per annum |  |  |  |
|  |  | $3,000.00$ |  |
| Total Production per Annum |  |  |  |
|  |  | Capacity | MT |
| Year |  | Utilisation |  |
|  |  |  |  |
|  |  | $50 \%$ | 1,500 |
| IST YEAR |  | $60 \%$ | 1,800 |
| IIND YEAR |  | $70 \%$ | 2,100 |
| IIIRD YEAR |  | $75 \%$ | 2,250 |
| IVTH YEAR |  | $80 \%$ | 2,400 |
| VTH YEAR |  |  |  |
|  |  |  |  |

COMPUTATION OFRAW MATERIAL

| Item Name |  | Quantity of <br> Raw Material | Recovery | Unit Rate of / MT | Total Cost <br> Per Annum (100\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Raw Material | 100\% | 2,400.00 | 85\% | 5,000.00 | 102.00 |
| Annual Consumption cost | ( In Lacs) |  | Total (Rounded off | in lacs) | 102.00 102.00 |
| Raw Material Consumed | Capacity Utilisation |  | Amount (Rs.) |  |  |
| IST YEAR <br> IIND YEAR <br> IIIRD YEAR <br> IVTH YEAR <br> VTH YEAR | $\begin{aligned} & 50 \% \\ & 60 \% \\ & 70 \% \\ & 75 \% \\ & 80 \% \end{aligned}$ |  |  |  |  |

## COM PUTATION OF SALE

| Particulars | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 150 | 180 | 210 | 225 |
|  |  |  |  |  |  |
| Production | 1,500 | 1,800 | 2,100 | 2,250 | 2,400 |
|  |  |  |  |  |  |
|  | 1,500 | 1,950 | 2,280 | 2,460 | 2,625 |
| Less : Closing Stock | 150 | 180 | 210 | 225 | 240 |
|  |  |  |  |  |  |
| Net Sale | 1,350 | 1,770 | 2,070 | 2,235 | 2,385 |
|  |  |  |  |  |  |
| Sale Price per MT | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 67.50 | 88.50 | 103.50 | 111.75 | 119.25 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

COM PUTATION OF ELECTRICITY

| (A) POWER CONNECTION |  |  |  |
| :---: | :---: | :---: | :---: |
| Total Working Hour per day | Hours | 8 |  |
| Electric Load Required |  | 15 |  |
| Load Factor |  | 0.7460 |  |
| Electricity Charges | per unit | 8.00 |  |
| Total Working Days |  | 300 |  |
| Electricity Charges ( 8 H rs Per day ) |  |  | 2,14,848.00 |
|  |  |  |  |
| 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\% |  |  | 5.74 |
|  |  |  |  |
| Year | Capacity |  | Amount |
|  |  |  | (in Lacs) |
|  |  |  |  |
| IST YEAR | 50\% |  | 2.87 |
| IIND YEAR | 60\% |  | 3.44 |
| IIIRD YEAR | 70\% |  | 4.02 |
| IVTH YEAR | 75\% |  | 4.30 |
| VTH YEAR | 80\% |  | 4.59 |
|  |  |  |  |

COMPUTATION OF CLOSING STOCK \& WORKING CAPITAL

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Finished Goods |  |  |  |  |  |
| (30 Days requirement) | 6.00 | 7.20 | 8.40 | 9.00 | 9.60 |
| Raw Material |  |  |  |  |  |
| (10 Days requirement) | 1.70 | 3.06 | 3.57 | 3.83 | 4.08 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Closing Stock | $\mathbf{7 . 7 0}$ | $\mathbf{1 0 . 2 6}$ | $\mathbf{1 1 . 9 7}$ | $\mathbf{1 2 . 8 3}$ | $\mathbf{1 3 . 6 8}$ |

COMPUTATION OF WORKING CAPITAL REQUIREMENT

| Particulars |  |  | Total |
| :--- | :--- | :--- | ---: |
|  |  |  | Amount |
| Stock in Hand |  |  | 7.70 |
|  |  |  | 2.36 |
| Sundry Debtors |  |  | 10.06 |
|  |  | Total | 1.19 |
| Sundry Creditors |  |  |  |
|  |  |  | $\mathbf{8 . 8 7}$ |
| Working Capital Requirement |  |  | 0.89 |
|  |  |  | $\mathbf{7 . 9 9}$ |
| Margin |  |  |  |
|  |  |  |  |
| Working Capital Finance |  |  |  |

BREAK UP OF LABOUR

| Particulars |  | Wages | No of | Total |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Per Month | Employees | Salary |
|  |  |  |  |  |
| Skilled Worker |  | $12,000.00$ | 4 | $48,000.00$ |
| Unskilled Worker |  | $5,000.00$ | 2 | $10,000.00$ |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  | $58,000.00$ |
| Add: $10 \%$ Fringe Benefit |  |  |  | $5,800.00$ |
| Total Labour Cost Per Month |  |  |  | $63,800.00$ |
| Total Labour Cost for the year (In Rs. Lakhs) |  |  |  | 7.66 |

## 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 |
| Sales | 10,000.00 | 1 | 10,000.00 |
| Total Salary Per Month |  |  | 30,000.00 |
|  |  |  |  |
| Add: 10\% Fringe Benefit |  |  | 3,000.00 |
| Total Salary for the month |  |  | 33,000.00 |
|  |  |  |  |
| Total Salary for the year ( In Rs. Lakhs) |  |  | 3.96 |

COMPUTATION OF DEPRECIATION

| Description | Land | Building/ shed | Plant \& | Furniture | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Machinery |  |  |
| Rate of Depreciation |  | 10.00\% | 15.00\% | 10.00\% |  |
| Opening Balance | Leased | - | - | - | - |
| Addition | - | - | 9.81 | 1.00 | 10.81 |
|  | - | - | 9.81 | 1.00 | 10.81 |
| Less: Depreciation | - | - | 1.47 | 0.05 | 1.52 |
| WDV at end of Ist year | - | - | 8.34 | 0.95 | 9.29 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 8.34 | 0.95 | 9.29 |
| Less : Depreciation | - | - | 1.25 | 0.10 | 1.35 |
| WDV at end of IInd Year | - | - | 7.09 | 0.86 | 7.94 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 7.09 | 0.86 | 7.94 |
| Less: Depreciation | - | - | 1.06 | 0.09 | 1.15 |
| WDV at end of IIIrd year | - | - | 6.02 | 0.77 | 6.79 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 6.02 | 0.77 | 6.79 |
| Less: Depreciation | - | - | 0.90 | 0.08 | 0.98 |
| WDV at end of IV year | - | - | 5.12 | 0.69 | 5.81 |
| Additions During The Year | - | - | - | - | - |
|  | - | - | 5.12 | 0.69 | 5.81 |
| Less: Depreciation | - | - | 0.77 | 0.07 | 0.84 |
| WDV at end of Vth year | - | - | 4.35 | 0.62 | 4.98 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  | 11.5\% |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Particulars | A mount | Addition | Total | Interest | Repayment | Cl Balance |
| IST YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 13.45 | 13.45 | - | - | 13.45 |
|  | lind Quarter | 13.45 | - | 13.45 | 0.39 | - | 13.45 |
|  | IIIrd Quarter | 13.45 | - | 13.45 | 0.39 | - | 13.45 |
|  | Ivth Quarter | 13.45 | - | 13.45 | 0.39 | - | 13.45 |
|  |  |  |  |  | 1.16 | - |  |
| IIND YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 13.45 | - | 13.45 | 0.39 | 0.84 | 12.61 |
|  | lind Quarter | 12.61 | - | 12.61 | 0.36 | 0.84 | 11.77 |
|  | IIIrd Quarter | 11.77 | - | 11.77 | 0.34 | 0.84 | 10.92 |
|  | Ivth Quarter | 10.92 |  | 10.92 | 0.31 | 0.84 | 10.08 |
|  |  |  |  |  | 1.40 | 3.36 |  |
| IIIRD YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 10.08 | - | 10.08 | 0.29 | 0.84 | 9.24 |
|  | lind Quarter | 9.24 | - | 9.24 | 0.27 | 0.84 | 8.40 |
|  | IIIrd Quarter | 8.40 | - | 8.40 | 0.24 | 0.84 | 7.56 |
|  | Ivth Quarter | 7.56 |  | 7.56 | 0.22 | 0.84 | 6.72 |
|  |  |  |  |  | 1.01 | 3.36 |  |
| IVTH YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 6.72 | - | 6.72 | 0.19 | 0.84 | 5.88 |
|  | lind Quarter | 5.88 | - | 5.88 | 0.17 | 0.84 | 5.04 |
|  | IIIrd Quarter | 5.04 | - | 5.04 | 0.14 | 0.84 | 4.20 |
|  | Ivth Quarter | 4.20 |  | 4.20 | 0.12 | 0.84 | 3.36 |
|  |  |  |  |  | 0.63 | 3.36 |  |
| VTH YEAR | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 3.36 | - | 3.36 | 0.10 | 0.84 | 2.52 |
|  | lind Quarter | 2.52 | - | 2.52 | 0.07 | 0.84 | 1.68 |
|  | IIIrd Quarter | 1.68 | - | 1.68 | 0.05 | 0.84 | 0.84 |
|  | Ivth Quarter | 0.84 |  | 0.84 | 0.02 | 0.84 | 0.00 |
|  |  |  |  |  | 0.24 | 3.36 |  |

CALCULATION OFD.S.C.R

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| CASH ACCRUALS | 6.15 | 9.13 | 10.88 | 11.83 | 12.56 |
|  |  |  |  |  |  |
| Interest on Term Loan | 1.16 | 1.40 | 1.01 | 0.63 | 0.24 |
|  |  |  |  |  |  |
| Total | 7.31 | 10.53 | 11.89 | 12.46 | 12.80 |
|  |  |  |  |  |  |
| REPAYMENT |  |  |  |  |  |
| Instalment of Term Loan | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 |
| Interest on Term Loan | 1.16 | 1.40 | 1.01 | 0.63 | 0.24 |
|  |  |  |  |  |  |
| Total | 4.52 | 4.76 | 4.38 | 3.99 | 3.60 |
|  |  |  |  |  |  |
| DEBT SERVICE COVERAGE RATIO | 1.62 | 2.21 | 2.72 | 3.12 | 3.55 |
|  |  |  |  |  |  |
| AVERAGE D.S.C.R. |  |  | 2.64 |  |  |

BREAK EVEN POINT ANALYSIS

| Year | I | II | III | IV | V |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Net Sales \& Other Income | 70.88 | 92.93 | 108.68 | 117.34 | 125.21 |
| Less: Op. WIP Goods | - | 6.00 | 7.20 | 8.40 | 9.00 |
| Add : Cl. WIP Goods | 6.00 | 7.20 | 8.40 | 9.00 | 9.60 |
| Total Sales | 76.88 | 94.13 | 109.88 | 117.94 | 125.81 |
| Variable \& Semi Variable Exp. |  |  |  |  |  |
| Raw Material \& Tax | 51.00 | 61.20 | 71.40 | 76.50 | 81.60 |
| Electricity Exp/Coal Consumption at 85\% | 2.44 | 2.93 | 3.41 | 3.66 | 3.90 |
| M anufacturing Expenses 80\% | 1.13 | 2.19 | 2.57 | 2.77 | 2.96 |
| Wages \& Salary at 60\% | 6.97 | 7.67 | 8.43 | 9.28 | 10.20 |
| Selling \& adminstrative Expenses 80\% | 1.08 | 1.42 | 1.66 | 1.79 | 1.91 |
| Intt. On Working Capital Loan | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Total Variable \& Semi Variable Exp | 63.42 | 76.20 | 88.27 | 94.79 | 101.37 |
| Contribution | 13.45 | 17.92 | 21.61 | 23.15 | 24.44 |
| Fixed \& Semi Fixed Expenses |  |  |  |  |  |
| M anufacturing Expenses 20\% | 0.28 | 0.55 | 0.64 | 0.69 | 0.74 |
| Electricity Exp/Coal Consumption at 15\% | 0.43 | 0.52 | 0.60 | 0.65 | 0.69 |
| Wages \& Salary at 40\% | 4.65 | 5.11 | 5.62 | 6.18 | 6.80 |
| Interest on Term Loan | 1.16 | 1.40 | 1.01 | 0.63 | 0.24 |
| Depreciation | 1.52 | 1.35 | 1.15 | 0.98 | 0.84 |
| Selling \& adminstrative Expenses 20\% | 0.27 | 0.35 | 0.41 | 0.45 | 0.48 |
| Total Fixed Expenses | 8.31 | 9.28 | 9.44 | 9.58 | 9.79 |
| Capacity Utilization | 50\% | 60\% | 70\% | 80\% | 90\% |
| OPERATING PROFIT | 5.14 | 8.65 | 12.16 | 13.57 | 14.66 |
| BREAK EVEN POINT | 31\% | 31\% | 31\% | 33\% | 36\% |
| BREAK EVEN SALES | 47.49 | 48.72 | 48.02 | 48.81 | 50.37 |

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