## PROJECT REPORT

## Of

## MOTOR STARTER PANEL

## PURPOSE OF THEDOCUMENT

This particular pre-feasibility is regarding Motor Starter Panel.

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 / Spouse Name
4 Unit Address

5 Product and By Product

6 Name of the project / business activity proposed

7 Cost of Projec
8 Means of Finance Term Loan
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 (Max Capacity)
17 Detailed Cost of Project \& Means of Finance COST OF PROJECT

| (Rs. In Lakhs) |  |
| :--- | ---: |
| Particulars | Amount |
| Land | Own/Rented |
| Building / Shed 1000 Sq ft | 5.00 |
| Equipments \& Tools | 15.00 |
| Furniture \& Fixtures | 2.00 |
| Working Capital | 7.78 |
| Total | $\mathbf{2 9 . 7 8}$ |

MEANS OF FINANCE

| Particulars | Amount |
| :--- | ---: |
| Own Contribution | 2.98 |
| Working Capital(Finance) | 7.00 |
| Term Loan | 19.80 |
| Total | $\mathbf{2 9 . 7 8}$ |

## MOTOR STARTER PANEL

Introduction: A Starter is a device that controls the use of electrical power to equipment, usually a motor. As the name implies, starters "start" motors. They can also stop them, reverse them, and protect them. Starters are made from two building blocks, Contactors and Overload Protection. Motor soft starter, is a device that is installed and incorporated with many industrial or commercial systems that aims to limit torque and power load. A starter turns an electric motor or motor controlled electrical equipment on or off, while providing overload protection. Starters represent another evolution in motor control applications. The two main types of starters are Manual Starters and AC Magnetic Motor Starters, commonly known as Motor Starters.


Working of motor starter Panel: Motor starters consist of two devices-a contactor that completes the circuit to the motor and an overload relay that monitors the current the motor is drawing. This overload protection device is set to a predetermined maximum load that the motor can safely handle. When a condition occurs that causes the motor to exceed the
maximum load, the device opens the motor starter control circuit and the motor is turned off.

Motor Starter Panel Market analysis: With rapid industrialization in urban and semi urban areas as well as in agriculture heavy use of pumping sets the demand of Electric Motors starters is increasing very fast. India electric motors market is projected to surpass $\$ 2.08$ billion by 2024. Anticipated growth in the market can be attributed to increasing number of industries and construction activities across the country, in addition to growing government focus towards adoption of energy efficient motors.

Raw Material requirements: Following raw material is required as the major raw material for the Motor starter Panel assembling process.

| S No. | Description | Amount |
| :--- | :--- | :--- |
| 1 | Cabinet | Rs 800 per unit |
| 2 | Contractor | Rs 1000 per unit |
| 3 | Control Relay | Rs 800 per unit |
| 4 | Terminal | Rs 150 per unit |
| 5 | MCB | Rs 650 per unit |
| 6 | Indicators | Rs 50 per unit |
| 7 | Tools \& dies | Rs 100 per unit |

Average raw material cost per Motor starter panel is approx. Rs 3550

Machinery Requirements: Major machines and equipments are as follows:

| S No. | Name | Amount |
| :--- | :--- | :--- |
| 1. | Soldering Machine | 250000 |
| 2. | Pick \& Place Machine | 800000 |
| 3. | Crimping Machine | 200000 |


| 4. | Wire Cutting Machine | 150000 |
| :--- | :--- | :--- |
| 5. | Testing equipments \& Hand <br> Tools | 100000 |
|  | Total Amount | $\mathbf{1 5 0 0 0 0 0}$ |

## Assembling process of motor starter Panel: Process Flow:

- Making of Top \& Bottom Cover
- Assembly of bought out components
- Wiring of Starter as per Circuit line diagram
- Fitting of Beading and Rubber knockouts etc.
- Pasting of Circuit line diagram \& Name Plate
- Quality Control Testing \& Inspection
- Packing \& Dispatch of Product for Sales

Area: The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and auxiliary like Generator setup. Also some of the area of building is required for office staff facilities, documentation, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 2000 to 2500 Sqft. Civil work cost will be Rs 5 Lac (Approx.)

Power Requirement: The power consumption required to run all the machinery could be approximated as 30 Hp

Manpower Requirement: There are requirement of skilled machine operators to run the machine set. Experience quality engineers are required for desired quality control. Some helpers are also required to transfer the material from one work station to other. Office staffs are required to maintain the documentation. The approximate manpower required is 8 including 1

Supervisor, 1 Technical operator, 1 unskilled worker, 1 Helper \& 1 Security Guard. 3 Skilled worker including Accountant, Manager and Sales person.

Bank Term Loan: Rate of Interest is assumed to be at 11\%

Depreciation: Depreciation has been calculated as per the Provisions of Income Tax Act, 1961

## Approvals \& Registration Requirement:

Basic registration required in this project:

- GST Registration
- Udyog Aadhar Registration (Optional)
- Choice of a Brand Name of the product and secure the name with Trademark if require.


## Implementation Schedule:

| S No. | Activity | Time required |
| :--- | :--- | :--- |
| 1. | Acquisition of premises | $1-2$ Months |
| 2. | Procurement \& installation of Plant \& Machinery | $1-2$ Months |
| 3. | Arrangement of Finance | $1.5-2$ Months |
| 4. | Requirement of required Manpower | 1 Month |
| 5. | Commercial Trial Runs | 1 Month |
|  | Total time Required (some activities shall run <br> concurrently) | $5-6$ Months |

## FINANCIALS

PROIECTED CASH FLOW STATEMENT

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | I | II | III | IV | v |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| SOURCES OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Own Contribution | 2.98 | - |  |  |  |
| Reserve \& Surplus | 4.29 | 7.01 | 8.65 | 10.57 | 13.70 |
| Depriciation \& Exp. W/off | 2.95 | 2.54 | 2.19 | 1.89 | 1.63 |
| Increase In Cash Credit | 7.00 |  |  |  |  |
| Increase In Term Loan | 19.80 | - | - | - | - |
| Increase in Creditors | 5.10 | 0.72 | 0.74 | 0.76 | 0.78 |
|  |  |  |  |  |  |
| TOTAL: | 42.12 | 10.27 | 11.58 | 13.22 | 16.12 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| APPLICATION OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Increase in Fixed Assets | 22.00 | - | - | - | - |
| Increase in Stock | 8.93 | 0.69 | 1.03 | 1.05 | 1.08 |
| Increase in Debtors | 4.35 | 0.75 | 0.63 | 0.64 | 0.66 |
| Repayment of Term Loan | 2.20 | 4.40 | 4.40 | 4.40 | 4.40 |
| Taxation | - | 0.70 | 0.86 | 1.59 | 2.74 |
| Drawings | 4.00 | 4.50 | 4.60 | 5.00 | 7.00 |
| TOTAL: | 41.48 | 9.66 | 11.53 | 12.68 | 15.87 |
|  |  |  |  |  |  |
| Opening Cash \& Bank Balance | - | 0.64 | 1.26 | 1.31 | 1.85 |
|  |  |  |  |  |  |
| Add: Surplus | 0.64 | 0.62 | 0.05 | 0.54 | 0.24 |
|  |  |  |  |  |  |
| Closing Cash \& Bank Balance | 0.64 | 1.26 | 1.31 | 1.85 | 2.09 |

## PROJECTED BALANCE SHEET

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | 1 | II | III | IV | v |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| SOURCES OF FUND |  |  |  |  |  |
| Capital Account |  |  |  |  |  |
| Opening Balance | - | 3.27 | 5.08 | 8.26 | 12.24 |
| Add: Additions | 2.98 | - | - | - | - |
| Add: Net Profit | 4.29 | 6.31 | 7.78 | 8.98 | 10.96 |
| Less: Drawings | 4.00 | 4.50 | 4.60 | 5.00 | 7.00 |
| Closing Balance | 3.27 | 5.08 | 8.26 | 12.24 | 16.20 |
| CC Limit | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| Term Loan | 17.60 | 13.20 | 8.80 | 4.40 | - |
| Sundry Creditors | 5.10 | 5.82 | 6.56 | 7.32 | 8.10 |
|  |  |  |  |  |  |
| TOTAL: | 32.97 | 31.10 | 30.62 | 30.96 | 31.30 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| APPLICATION OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Fixed Assets ( Gross) | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| Gross Dep. | 2.95 | 5.49 | 7.69 | 9.58 | 11.21 |
| Net Fixed Assets | 19.05 | 16.51 | 14.31 | 12.42 | 10.79 |
|  |  |  |  |  |  |
| Current Assets |  |  |  |  |  |
| Sundry Debtors | 4.35 | 5.10 | 5.73 | 6.37 | 7.03 |
| Stock in Hand | 8.93 | 8.23 | 9.26 | 10.32 | 11.39 |
| Cash and Bank | 0.64 | 1.26 | 1.31 | 1.85 | 2.09 |
|  |  |  |  |  |  |
| TOTAL: | 32.97 | 31.10 | 30.62 | 30.96 | 31.30 |

PROIECTED PROFITABILITY STATEMENT

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | I | II | III | IV | V |
| A) SALES |  |  |  |  |  |
| Gross Sale | 130.50 | 152.99 | 171.93 | 191.23 | 210.91 |
| Total (A) | 130.50 | 152.99 | 171.93 | 191.23 | 210.91 |
| B) COST OF SALES |  |  |  |  |  |
| Raw Material Consumed | 102.00 | 116.44 | 131.25 | 146.44 | 162.00 |
| Elecricity Expenses | 1.83 | 2.05 | 2.28 | 2.51 | 2.74 |
| Repair \& Maintenance | 3.92 | 4.59 | 5.16 | 5.74 | 6.33 |
| Labour \& Wages | 9.45 | 9.83 | 10.81 | 11.57 | 12.38 |
| Depreciation | 2.95 | 2.54 | 2.19 | 1.89 | 1.63 |
| Cost of Production | 120.14 | 135.45 | 151.69 | 168.15 | 185.08 |
| Add: Opening Stock/WIP | - | 3.83 | 4.35 | 4.89 | 5.43 |
| Less: Closing Stock/WIP | 3.83 | 4.35 | 4.89 | 5.43 | 5.99 |
| Cost of Sales (B) | 116.32 | 134.93 | 151.16 | 167.60 | 184.52 |
| C) GROSS PROFIT (A-B) | 14.18 | 18.07 | 20.77 | 23.63 | 26.39 |
|  | 10.87\% | 11.81\% | 12.08\% | 12.36\% | 12.51\% |
| D) Bank Interest (Term Loan ) | 2.15 | 1.75 | 1.27 | 0.79 | 0.30 |
| ii) Interest On Working Capital | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| E) Salary to Staff | 5.67 | 6.24 | 6.99 | 7.68 | 8.45 |
| F) Selling \& Adm Expenses Exp. | 1.31 | 2.29 | 3.09 | 3.82 | 3.16 |
| TOTAL (D+E) | 9.89 | 11.06 | 12.12 | 13.07 | 12.69 |
| H) NET PROFIT | 4.29 | 7.01 | 8.65 | 10.57 | 13.70 |
|  | 3.3\% | 4.6\% | 5.0\% | 5.5\% | 6.5\% |
| I) Taxation | - | 0.70 | 0.86 | 1.59 | 2.74 |
| J) PROFIT (After Tax) | 4.29 | 6.31 | 7.78 | 8.98 | 10.96 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


| COMPUTATION OF MAKING OF MOTOR STARTER PANEL |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
| Item to be Manufactured Motor starter panel |  |  |  |
| Manufacturing Capacity per day |  | 25 | Pcs |
|  |  |  |  |
| No. of Working Hour |  | 8 |  |
|  |  | 25 |  |
| No of Working Days per month |  |  |  |
|  |  | 300 |  |
| No. of Working Day per annum |  | 7,500 | Pcs |
|  |  | 7,500 | Pcs |
| Total Production per Annum |  | Capacity | STARTER |
| Total Production per Annum |  | Utilisation |  |
| Year |  |  |  |
|  |  | $40 \%$ | $3,000.00$ |
|  |  | $45 \%$ | $3,375.00$ |
| I |  | $50 \%$ | $3,750.00$ |
| II |  | $55 \%$ | $4,125.00$ |
| III |  | $60 \%$ | $4,500.00$ |
| IV |  |  |  |
| V |  |  |  |
|  |  |  |  |


| Raw Material Consumed | Capacity | Rate | Amount (Rs.) |
| :--- | ---: | :--- | ---: |
|  | Utilisation |  |  |
|  |  |  |  |
| I | $40 \%$ | 3400.00 | 102.00 |
| II | $45 \%$ | 3450.00 | 116.44 |
| III | $50 \%$ | 3500.00 | 131.25 |
| IV | $55 \%$ | 3550.00 | 146.44 |
| V | $60 \%$ | 3600.00 | 162.00 |


| COMPUTATION OF SALE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Particulars | I | II | III | IV | V |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 100.00 | 112.50 | 125.00 | 137.50 |
|  |  |  |  |  |  |
| Production | 3,000.00 | 3,375.00 | 3,750.00 | 4,125.00 | 4,500.00 |
|  |  |  |  |  |  |
|  | 3,000.00 | 3,475.00 | 3,862.50 | 4,250.00 | 4,637.50 |
| Less : Closing Stock(10 Days) | 100.00 | 112.50 | 125.00 | 137.50 | 150.00 |
|  |  |  |  |  |  |
| Net Sale | 2,900.00 | 3,362.50 | 3,737.50 | 4,112.50 | 4,487.50 |
|  |  |  |  |  |  |
| Sale Price per Pc | 4,500.00 | 4,550.00 | 4,600.00 | 4,650.00 | 4,700.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 130.50 | 152.99 | 171.93 | 191.23 | 210.91 |
|  |  |  |  |  |  |

## COMPUTATION OF CLOSING STOCK \& WORKING CAPITAL

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | I | II | III | IV | v |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Finished Goods |  |  |  |  |  |
| (10 Days requirement) | 3.83 | 4.35 | 4.89 | 5.43 | 5.99 |
| Raw Material |  |  |  |  |  |
| (15 Days requirement) | 5.10 | 3.88 | 4.38 | 4.88 | 5.40 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Closing Stock | 8.93 | 8.23 | 9.26 | 10.32 | 11.39 |


| COMPUTATION OF WORKING CAPITAL REQUIREMENT |  |  |  |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| Particulars |  |  |  |
|  | Amount | Margin(10\%) | Net |
|  |  |  | Amount |
| Stock in Hand | 8.93 |  |  |
| Less: |  |  |  |
| Sundry Creditors | 5.10 |  |  |
| Paid Stock | 3.83 |  | $\mathbf{0 . 3 8}$ |
|  |  |  | 3.44 |
| Sundry Debtors | 4.35 |  | 3.92 |
| Working Capital Requirement |  |  | 7.36 |
|  |  |  | 0.82 |
| Margin |  |  | 7.36 |
|  |  |  | 7.00 |
| MPBF |  |  |  |
| Working Capital Demand |  |  |  |


| BREAK UP OF LABOUR |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
|  |  |  |  |  |
| Particulars |  | Wages | No of | Total |
|  |  | Per Month | Employees | Salary |
| Supervisor |  | $25,000.00$ | 1 | $25,000.00$ |
| Technical Operator |  | $20,000.00$ | 1 | $20,000.00$ |
| Unskilled Worker |  | $12,000.00$ | 1 | $12,000.00$ |
| Helper |  | $10,000.00$ | 1 | $10,000.00$ |
| Security Guard |  | $8,000.00$ |  | 1 |
|  |  |  |  | $8,000.00$ |
|  |  |  |  | $75,000.00$ |
| Add: 5\% Fringe Benefit |  |  |  | $3,750.00$ |
| Total Labour Cost Per Month |  |  |  |  |
| Total Labour Cost for the year (In Rs. Lakhs) |  |  | 5 | $9,750.00$ |


| BREAK UP OF SALARY |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  |  |  |
| Particulars |  | Salary | No of | Total |
|  |  | Per Month | Employees | Salary |
| Manager |  | $18,000.00$ | 1 | $18,000.00$ |
| Accountant cum store keeper |  | $15,000.00$ | 1 | $15,000.00$ |
| Sales |  | $12,000.00$ |  | $12,000.00$ |
| Total Salary Per Month |  |  |  | $45,000.00$ |
|  |  |  |  |  |
| Add: 5\% Fringe Benefit |  |  |  | $2,250.00$ |
| Total Salary for the month |  |  |  | $47,250.00$ |
|  |  |  |  |  |
| Total Salary for the year ( In Rs. Lakhs) |  |  | 5.67 |  |


| COMPUTATION OF DEPRECIATION |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Description | Land | Building/shed | Equipments \& Tools | Furniture | TOTAL |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Rate of Depreciation |  | 10.00\% | 15.00\% | 10.00\% |  |
| Opening Balance | Leased |  | - | - | - |
| Addition | - | 5.00 | 15.00 | 2.00 | 22.00 |
|  | - | 5.00 | 15.00 | 2.00 | 22.00 |
|  |  | - | - | - |  |
| TOTAL |  | 5.00 | 15.00 | 2.00 | 22.00 |
| Less: Depreciation | - | 0.50 | 2.25 | 0.20 | 2.95 |
| WDV at end of Ist year | - | 4.50 | 12.75 | 1.80 | 19.05 |
| Additions During The Year | - | - | - | - | - |
|  | - | 4.50 | 12.75 | 1.80 | 19.05 |
| Less: Depreciation | - | 0.45 | 1.91 | 0.18 | 2.54 |
| WDV at end of IInd Year | - | 4.05 | 10.84 | 1.62 | 16.51 |
| Additions During The Year | - | - | - | - | - |
|  | - | 4.05 | 10.84 | 1.62 | 16.51 |
| Less: Depreciation | - | 0.41 | 1.63 | 0.16 | 2.19 |
| WDV at end of IIIrd year | - | 3.65 | 9.21 | 1.46 | 14.31 |
| Additions During The Year | - | - | - | - | - |
|  | - | 3.65 | 9.21 | 1.46 | 14.31 |
| Less: Depreciation | - | 0.36 | 1.38 | 0.15 | 1.89 |
| WDV at end of IV year | - | 3.28 | 7.83 | 1.31 | 12.42 |
| Additions During The Year | - | - | - | - | - |
|  | - | 3.28 | 7.83 | 1.31 | 12.42 |
| Less: Depreciation | - | 0.33 | 1.17 | 0.13 | 1.63 |
| WDV at end of Vth year | - | 2.95 | 6.66 | 1.18 | 10.79 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  |  | 11.0\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
| I | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 19.80 | 19.80 | 0.54 | - | 19.80 |
|  | Iind Quarter | 19.80 | - | 19.80 | 0.54 | - | 19.80 |
|  | IIIrd Quarter | 19.80 | - | 19.80 | 0.54 | 1.10 | 18.70 |
|  | Ivth Quarter | 18.70 | - | 18.70 | 0.51 | 1.10 | 17.60 |
|  |  |  |  |  | 2.15 | 2.20 |  |
| II | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 17.60 | - | 17.60 | 0.48 | 1.10 | 16.50 |
|  | Iind Quarter | 16.50 | - | 16.50 | 0.45 | 1.10 | 15.40 |
|  | IIIrd Quarter | 15.40 | - | 15.40 | 0.42 | 1.10 | 14.30 |
|  | Ivth Quarter | 14.30 |  | 14.30 | 0.39 | 1.10 | 13.20 |
|  |  |  |  |  | 1.75 | 4.40 |  |
| III | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 13.20 | - | 13.20 | 0.36 | 1.10 | 12.10 |
|  | Iind Quarter | 12.10 | - | 12.10 | 0.33 | 1.10 | 11.00 |
|  | IIIrd Quarter | 11.00 | - | 11.00 | 0.30 | 1.10 | 9.90 |
|  | Ivth Quarter | 9.90 |  | 9.90 | 0.27 | 1.10 | 8.80 |
|  |  |  |  |  | 1.27 | 4.40 |  |
| IV | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 8.80 | - | 8.80 | 0.24 | 1.10 | 7.70 |
|  | Iind Quarter | 7.70 | - | 7.70 | 0.21 | 1.10 | 6.60 |
|  | IIIrd Quarter | 6.60 | - | 6.60 | 0.18 | 1.10 | 5.50 |
|  | Ivth Quarter | 5.50 |  | 5.50 | 0.15 | 1.10 | 4.40 |
|  |  |  |  |  | 0.79 | 4.40 |  |
| V | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 4.40 | - | 4.40 | 0.12 | 1.10 | 3.30 |
|  | Iind Quarter | 3.30 | - | 3.30 | 0.09 | 1.10 | 2.20 |
|  | IIIrd Quarter | 2.20 | - | 2.20 | 0.06 | 1.10 | 1.10 |
|  | Ivth Quarter | 1.10 |  | 1.10 | 0.03 | 1.10 | - |
|  |  |  |  |  | 0.30 | 4.40 |  |


| Door to Door Period | 60 | Months |
| :--- | ---: | :--- |
| Moratorium Period | 6 | Months |
| Repayment Period | 54 | Months |


| CALCULATION OF D.S.C.R |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| PARTICULARS | I | II | III | IV | V |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| CASH ACCRUALS | 7.24 | 8.85 | 9.97 | 10.87 | 12.60 |
|  |  |  |  |  |  |
| Interest on Term Loan | 2.15 | 1.75 | 1.27 | 0.79 | 0.30 |
|  |  |  |  |  |  |
| Total | 9.39 | 10.61 | 11.24 | 11.66 | 12.90 |
|  |  |  |  |  |  |
| REPAYMENT |  |  |  |  |  |
| Repayment of Term Loan | 2.20 | 4.40 | 4.40 | 4.40 | 4.40 |
| Interest on Term Loan | 2.15 | 1.75 | 1.27 | 0.79 | 0.30 |
|  |  |  |  |  |  |
| Total | 4.35 | 6.15 | 5.67 | 5.19 | 4.70 |
|  |  |  |  |  |  |
| DEBT SERVICE COVERAGE RATIO | 2.16 | 1.72 | 1.98 | 2.25 | 2.74 |
|  |  |  |  |  |  |
| AVERAGE D.S.C.R. |  |  | 2.14 |  |  |
|  |  |  |  |  |  |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
| COMPUTATION OF ELECTRICITY |  |  |  |
| (A) POWER CONNECTION |  |  |  |
|  |  |  |  |
| Total Working Hour per day | Hours | 8 |  |
| Electric Load Required | HP | 30 |  |
| Load Factor |  | 0.7460 |  |
| Electricity Charges | per unit | 7.50 |  |
| Total Working Days |  | 300 |  |
| Electricity Charges |  |  | 4,02,840.00 |
|  |  |  |  |
| Add : Minimim Charges (@ 10\%) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| (B) DG set |  |  |  |
| No. of Working Days |  | 300 | days |
| No of Working Hours |  | 0.3 | Hour per day |
| Total no of Hour |  | 90 |  |
| Diesel Consumption per Hour |  | 8 |  |
| Total Consumption of Diesel |  | 720 |  |
| Cost of Diesel |  | 65.00 | Rs. / Ltr |
| Total cost of Diesel |  | 0.47 |  |
| Add : Lube Cost @15\% |  | 0.07 |  |
| Total |  | 0.54 |  |
|  |  |  |  |
| Total cost of Power \& Fuel at 100\% |  |  | 4.57 |
|  |  |  |  |
| Year | Capacity |  | Amount |
|  |  |  | (in Lacs) |
|  |  |  |  |
| I | 40\% |  | 1.83 |
| II | 45\% |  | 2.05 |
| III | 50\% |  | 2.28 |
| IV | 55\% |  | 2.51 |
| V | 60\% |  | 2.74 |

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