PROJECT REPORT

Of

BATTERY WATER

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Battery Water 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.]



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PROJECT REPORT ON BATTERY WATER



INTRODUCTION

Water used in Batteries (mainly vehicles) should be free from salts, Chlorine and Iron. These impurities spoil the electrodes and reduces the battery and hence special water with minimum impurities are required for the purpose, known as Battery water. Now a days D.M. Water is being used in the Batteries. Raw water from Open well/Bore well or Corporation can be used for the purpose.

The demand for distilled water required for battery charging is of considerable value. Preparation of distilled water for battery charging seems to be one of the most prospective venture in small cities.

MARKET POTENTIAL

This unit can cover about 30 km radius in semi-urban area which has around 2000 four wheelers and it can also cater to the need of small laboratories. Considering the above consumers, the capacity is fixed at 6.0 lakh litres per year

BASIS AND PRESUMPTIONS:

The approximate estimate for setting up of unit to produce 6.0 lakh litres distilled water per year. The unit will work for 8 hours per day with 300 working days in a Year.

IMPLEMENTATION SCHEDULE:

The unit can be set up in 6 months

TECHNICAL ASPECT:- Batter water is manufactured by an exchange process which has two vertical cylinders made of FRP/Plastic fitted with stand and water quality testing kit, so as to ensure continues quality check of water being produced. This cylindrical vessel contains Resin, which has power to remove all hardness from water. Water passes from bottom of the first cylinder and comes from the top and again goes into the bottom of second cylinder, which again comes out from top of the second column in purest form, free from all salts. In this process water has to pass only through two cylinders and many times, gravity force is only sufficient for the purpose. If sufficient pressure is not there one may use small pump for water feeding. Demineralization is the process of removing mineral salts from Water by using the

Demineralised Water is Water completely free (or almost) of dissolved minerals Demineralized Water also known as Deionized Water, Water that has had its mineral ions removed. Mineral ions such as cations of sodium, calcium, iron, copper, etc and anions such as chloride, sulphate, nitrate, etc are common ions present in Water. Deionization is a physical process which uses specially-manufactured ion exchange resins which provides ion exchange site for the replacement of the mineral salts in Water with Water forming H+ and OH- ions. Because the majority of Water impurities are dissolved salts, deionization produces a high purity Water that is generally similar to distilled Water, and this process is quick and without scale buildup. De-mineralization technology is the proven process for treatment of Water. A DM Water System produces mineral free Water by operating on the principles of ion exchange, Degasification, and polishing. Demineralized Water System finds wide application in the field of steam, and cooling. power, process,

Raw Water is passed via two small polystyrene bead filled (ion exchange resins) beds. While the cations get exchanged with hydrogen ions in first bed, the anions are exchanged with hydroxyl ions, in the second one.

Quality Specification IS: 1069-1964 specification

FINANCIAL ASPECTS:

| PROIECT AT A GLANC | G |
|--------------------|---|

1 Name of the Entreprenuer XXXXXXX

2 Constitution (legal Status) : XXXXXXX

3 Father's/Spouce's Name XXXXXXXX

4 Unit Address : XXXXXXXX

Taluk/Block:

District: XXXXX
Pin: XXXXX State:

E-Mail : XXXXX State

Mobile XXXXX

5 Product and By Product : Battery Water (DM Water)

6 Name of the project / business activity proposed : Battery Water (DM Water)

7 Cost of Project : Rs13.50lac

8 Means of Finance

Term Loan Rs.6.97 Lacs

KVIC Margin Money - As per Project Eligibility
Own Capital Rs.1.35 Lacs
Rs.1.35 Lacs

Working Capital Rs.5.18 Lacs

9 Debt Service Coverage Ratio : 5.19

10 Pay Back Period : 5 Years

11 Project Implementation Period : 6 Months

12 Break Even Point : 22%

13 Employment : 5 Persons

14 Power Requirement : 3.00 HP

15 Major Raw materials : Ground water, Resin

16 Estimated Annual Sales Turnover : 92.66 Lacs

16 Detailed Cost of Project & Means of Finance

COST OF PROJECT

(Rs. In Lacs)

| Particulars | Amount |
|------------------------------------|--------------|
| Land | Rented/Owned |
| Building & Civil Work (2000 Sq Ft) | 3.00 |
| Plant & Machinery | 3.85 |
| Furniture & Fixtures | 0.61 |
| Pre-operative Expenses | 0.28 |
| Working Capital Requirement | 5.76 |
| Total | 13.50 |

MEANS OF FINANCE

| Particulars | Amount |
|-------------------------|--------|
| | |
| | |
| Own Contribution @10% | 1.35 |
| Term Loan | 6.97 |
| Workign Capital Finance | 5.18 |
| | |
| T-1-1 | 12.50 |
| Total | 13.50 |

| | General | Special |
|-----------------------------|---------|---------|
| Beneficiary's Margin Monery | 10% | 5% |
| (% of Project Cost) | | |

PLANT & MACHINERY

| PARTICULARS | QTY. | RATE | AMOUNT IN RS |
|--|------|-----------|--------------|
| | | | |
| Resin based Demineralised plant -250 ltr/hour. Capacity with accessories | 1.00 | 200000.00 | 200000.00 |
| Plastic drums for Storage of water | LS | 5000.00 | 5000.00 |
| Bore well | LS | 100000.00 | 100000.00 |
| Hot air Blower for shrink packaging of water | LS | 10000.00 | 10000.00 |
| Quality control Equipments ,Ph meter, Hardness testing | LS | 20000.00 | 20000.00 |
| Misc Tools and Packaging filling Machine | LS | 50,000.00 | 50,000.00 |
| TOTAL | | | 385,000.00 |

PROJECTED CASH FLOW STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR I | IVTH YEAR | VTH YEAR |
|-----------------------------|----------|-----------|--------------|-----------|----------|
| | | | | | |
| SOURCES OF FUND | | | | | |
| Share Capital | 1.35 | - | | | |
| Reserve & Surplus | 9.21 | 9.78 | 12.47 | 14.66 | 16.79 |
| Depriciation & Exp. W/off | 0.91 | 0.82 | 0.71 | 0.62 | 0.54 |
| Increase in Cash Credit | 5.18 | - | - | - | - |
| Increase In Term Loan | 6.97 | - | - | - | - |
| Increase in Creditors | 1.68 | 0.28 | 0.28 | 0.28 | 0.28 |
| Increase in Provisions | 0.36 | 0.04 | 0.04 | 0.04 | 0.05 |
| TOTAL: | 25.66 | 10.92 | 13.50 | 15.60 | 17.66 |
| | | | | | |
| APPLICATION OF FUND | | | | | |
| Increase in Fixed Assets | 7.46 | _ | - | _ | - |
| Increase in Stock | 4.35 | 4.22 | 1.22 | 1.22 | 1.22 |
| Increase in Debtors | 3.09 | 0.40 | 0.64 | 0.52 | 0.52 |
| Increase in Deposits & Adv | 2.50 | 0.25 | 0.28 | 0.30 | 0.33 |
| Repayment of Term Loan | - | 1.74 | 1.74 | 1.74 | 1.97 |
| Taxation | - | 0.98 | 2.49 | 2.93 | 3.36 |
| TOTAL: | 17.40 | 7.59 | 6.38 | 6.72 | 7.41 |
| Opening Cash & Bank Balance | - | 8.26 | 11.59 | 18.71 | 27.59 |
| Add : Surplus | 8.26 | 3.33 | 7.12 | 8.88 | 10.25 |
| Closing Cash & Bank Balance | 8.26 | 11.59 | 18.71 | 27.59 | 37.84 |

PROJECTED BALANCE SHEET

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|--|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| | | | | | |
| SOURCES OF FUND | | | | | |
| Capital Account | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| Retained Profit | 9.21 | 18.01 | 27.99 | 39.71 | 53.15 |
| Term Loan | 6.97 | 5.22 | 3.48 | 1.74 | - 0.23 |
| Cash Credit | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 |
| Sundry Creditors | 1.68 | 1.96 | 2.24 | 2.52 | 2.80 |
| Provisions & Other Liab | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 |
| | | | 40.60 | =0.00 | (2.50 |
| TOTAL: | 24.75 | 32.13 | 40.68 | 50.99 | 62.78 |
| TOTAL : <u>APPLICATION OF FUND</u> | 24.75 | 32.13 | 40.68 | 50.99 | 62./8 |
| | 24.75 7.46 | 32.13 7.46 | 7.46 | 7.46 | 7.46 |
| APPLICATION OF FUND | | | | | |
| APPLICATION OF FUND Fixed Assets (Gross) | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 |
| APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. | 7.46 0.91 | 7.46 1.73 | 7.46 2.44 | 7.46 3.06 | 7.46 3.60 |
| APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets | 7.46 0.91 | 7.46 1.73 | 7.46 2.44 | 7.46 3.06 | 7.46 3.60 |
| APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets | 7.46 0.91 6.55 | 7.46 1.73 5.73 | 7.46 2.44 5.02 | 7.46 3.06 4.40 | 7.46 3.60 3.86 |
| APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors | 7.46 0.91 6.55 | 7.46 1.73 5.73 | 7.46 2.44 5.02 | 7.46 3.06 4.40 | 7.46 3.60 3.86 5.17 |
| APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand | 7.46 0.91 6.55 3.09 4.35 | 7.46 1.73 5.73 3.49 8.57 | 7.46 2.44 5.02 4.13 9.79 | 7.46 3.06 4.40 4.65 11.02 | 7.46 3.60 3.86 5.17 12.24 |

PROJECTED PROFITABILITY STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|--------------------------------|-------------|-----------|-------------|--------------|----------|
| | | | | | |
| A) SALES | | | | | |
| Gross Sale | 92.66 | 104.68 | 124.02 | 139.62 | 155.22 |
| Total (A) | 92.66 | 104.68 | 124.02 | 139.62 | 155.22 |
| B) COST OF SALES | | | | | |
| Raw Mateiral Consumed | 72.00 | 84.00 | 96.00 | 108.00 | 120.00 |
| Elecricity Expenses | 0.26 | 0.30 | 0.34 | 0.39 | 0.43 |
| Repair & Maintenance | _ | 1.05 | 1.24 | 1.40 | 1.55 |
| Labour & Wages | 2.38 | 2.61 | 2.87 | 3.16 | 3.48 |
| Depriciation | 0.91 | 0.82 | 0.71 | 0.62 | 0.54 |
| Consumables and Other Expense | 1.85 | 2.09 | 2.48 | 2.79 | 3.10 |
| Cost of Production | 77.40 | 90.87 | 103.65 | 116.36 | 129.11 |
| | | | | | |
| Add: Opening Stock/WIP | - | 0.75 | 4.37 | 4.99 | 5.62 |
| Less: Closing Stock/WIP | 0.75 | 4.37 | 4.99 | 5.62 | 6.24 |
| Cost of Sales (B) | 76.65 | 87.25 | 103.03 | 115.73 | 128.48 |
| C) GROSS PROFIT (A-B) | 16.02 | 17.42 | 20.99 | 23.89 | 26.74 |
| | 17 % | 17% | 17 % | 17 % | 17% |
| D) Bank Interest (Term Loan) | 0.60 | 0.73 | 0.53 | 0.33 | 0.12 |
| Bank Interest (C.C. Limit) | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| E) Salary to Staff | 1.06 | 1.16 | 1.28 | 1.41 | 1.55 |
| F) Selling & Adm Expenses Exp. | 4.63 | 5.23 | 6.20 | 6.98 | 7.76 |
| TOTAL (D+E) | 6.81 | 7.64 | 8.52 | 9.23 | 9.95 |
| - | 0.01 | 7.01 | 0.02 | 7.2 3 | 3.30 |
| H) NET PROFIT | 9.21 | 9.78 | 12.47 | 14.66 | 16.79 |
| I) Taxation | - | 0.98 | 2.49 | 2.93 | 3.36 |
| J) PROFIT (After Tax) | 9.21 | 8.80 | 9.98 | 11.72 | 13.43 |
| i | | | | | |

| COMPLITATION | OF MANUFACTURING | OF BATTEDV WATED |
|--------------|------------------|------------------|
| COMPUTATION | OF MANUFACTURING | OF DATTERY WATER |

Items to be Manufactured

Battery Water

| Manufacturing Capacity per day | - | 2,000.00 | Lts |
|--------------------------------|---|-------------|---------|
| | - | | |
| No. of Working Hour | | 8 | |
| | | | |
| No of Working Days per month | | 25 | |
| | | | |
| No. of Working Day per annum | | 300 | |
| | | | |
| Total Production per Annum | | 600,000.00 | Ltrs |
| | | | |
| Year | | Capacity | Ltrs |
| | | Utilisation | |
| | | | |
| IST YEAR | | 60% | 360,000 |
| IIND YEAR | | 70% | 420,000 |
| IIIRD YEAR | | 80% | 480,000 |
| IVTH YEAR | | 90% | 540,000 |
| VTH YEAR | | 100% | 600,000 |
| | | | |

COMPUTATION OF RAW MATERIAL

| Item Name | | Quantity of | Recovery | Unit Rate of | Total Cost |
|---|------|--------------|----------|--------------|------------------|
| | | Raw Material | | / Lts | Per Annum (100%) |
| | | Lts | | | |
| Plastic cans 5 Lts.2.50lts, Resins, label | 100% | 600,000.00 | 100% | 20.00 | 120.00 |

Total (Rounded off in lacs)

120.00

Annual Consumption cost (In Lacs) 120.00

| Raw Material Consumed | Raw Material Consumed Capacity Utilisation | |
|-----------------------|--|--------|
| IST YEAR | 60% | 72.00 |
| IIND YEAR | 70% | 84.00 |
| IIIRD YEAR | 80% | 96.00 |
| IVTH YEAR | 90% | 108.00 |
| VTH YEAR | 100% | 120.00 |
| | | |

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|-----------------------|----------|-----------|------------|-----------|----------|
| | | | | | |
| | | | | | |
| Finished Goods | | | | | |
| (15 Days requirement) | 0.75 | 4.37 | 4.99 | 5.62 | 6.24 |
| Raw Material | | | | | |
| (15 Days requirement) | 3.60 | 4.20 | 4.80 | 5.40 | 6.00 |
| | | | | | |
| | | | | | |
| Closing Stock | 4.35 | 8.57 | 9.79 | 11.02 | 12.24 |

COMPUTATION OF WORKING CAPITAL REQUIREMENT

| Particulars | | Total |
|-----------------------------|-------|--------|
| | | Amount |
| Stock in Hand | | 4.35 |
| | | |
| Sundry Debtors | | 3.09 |
| | Total | 7.44 |
| Sundry Creditors | | 1.68 |
| | | |
| Working Capital Requirement | | 5.76 |
| | | |
| Margin | | 0.58 |
| | | |
| Working Capital Finance | | 5.18 |

BREAK UP OF LABOUR

| Particulars | Wages | No of | Total |
|---|-----------|-----------|-----------|
| | Per Month | Employees | Salary |
| Technician | 10,000.00 | 1 | 10,000.00 |
| Skilled Worker | 8,000.00 | 1 | 8,000.00 |
| Unskilled Worker | 5,000.00 | 2 | 10,000.00 |
| | | | |
| | | | |
| | | | 18,000.00 |
| Add: 10% Fringe Benefit | | | 1,800.00 |
| Total Labour Cost Per Month | | | 19,800.00 |
| Total Labour Cost for the year (In Rs. Lakhs) | | | 2.38 |

BREAK UP OF SALARY

| Particulars | Salary | No of | Total |
|--|-----------|-----------|----------|
| | Per Month | Employees | Salary |
| Manager | - | - | - |
| Accountant | 8,000.00 | 1 | 8,000.00 |
| | | | |
| Total Salary Per Month | | | 8,000.00 |
| | | | |
| Add: 10% Fringe Benefit | | | 800.00 |
| Total Salary for the month | | | 8,800.00 |
| | | | |
| Total Salary for the year (In Rs. Lakhs) | | | 1.06 |

COMPUTATION 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 | 3.85 | 0.61 | 7.46 |
| | - | 3.00 | 3.85 | 0.61 | 7.46 |
| Less : Depreciation | - | 0.30 | 0.58 | 0.03 | 0.91 |
| WDV at end of Ist year | - | 2.70 | 3.27 | 0.58 | 6.55 |
| Additions During The Year | - | - | - | - | - |
| | - | 2.70 | 3.27 | 0.58 | 6.55 |
| Less: Depreciation | - | 0.27 | 0.49 | 0.06 | 0.82 |
| WDV at end of IInd Year | - | 2.43 | 2.78 | 0.52 | 5.73 |
| Additions During The Year | - | - | - | - | - |
| | - | 2.43 | 2.78 | 0.52 | 5.73 |
| Less: Depreciation | - | 0.24 | 0.42 | 0.05 | 0.71 |
| WDV at end of IIIrd year | - | 2.19 | 2.36 | 0.47 | 5.02 |
| Additions During The Year | - | - | - | - | - |
| | - | 2.19 | 2.36 | 0.47 | 5.02 |
| Less : Depreciation | - | 0.22 | 0.35 | 0.05 | 0.62 |
| WDV at end of IV year | - | 1.97 | 2.01 | 0.42 | 4.40 |
| Additions During The Year | - | - | - | - | - |
| | - | 1.97 | 2.01 | 0.42 | 4.40 |
| Less: Depreciation | - | 0.20 | 0.30 | 0.04 | 0.54 |
| WDV at end of Vth year | - | 1.77 | 1.71 | 0.38 | 3.86 |

| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
|------------|-----------------|--------|----------|-------|----------|-----------|------------|
| IST YEAR | Opening Balance | | | | | | |
| | Ist Quarter | - | 6.97 | 6.97 | - | - | 6.97 |
| | Iind Quarter | 6.97 | - | 6.97 | 0.20 | - | 6.97 |
| | IIIrd Quarter | 6.97 | - | 6.97 | 0.20 | - | 6.97 |
| | Ivth Quarter | 6.97 | - | 6.97 | 0.20 | - | 6.97 |
| | | | | | 0.60 | - | |
| IIND YEAR | Opening Balance | | | | | | |
| | Ist Quarter | 6.97 | - | 6.97 | 0.20 | 0.44 | 6.53 |
| | Iind Quarter | 6.53 | - | 6.53 | 0.19 | 0.44 | 6.10 |
| | IIIrd Quarter | 6.10 | - | 6.10 | 0.18 | 0.44 | 5.66 |
| | Ivth Quarter | 5.66 | | 5.66 | 0.16 | 0.44 | 5.22 |
| | | | | | 0.73 | 1.74 | |
| IIIRD YEAR | Opening Balance | | | | | | |
| | Ist Quarter | 5.22 | - | 5.22 | 0.15 | 0.44 | 4.79 |
| | Iind Quarter | 4.79 | - | 4.79 | 0.14 | 0.44 | 4.35 |
| | IIIrd Quarter | 4.35 | - | 4.35 | 0.13 | 0.44 | 3.92 |
| | Ivth Quarter | 3.92 | | 3.92 | 0.11 | 0.44 | 3.48 |
| | | | | | 0.53 | 1.74 | |
| IVTH YEAR | Opening Balance | | | | | | |
| | Ist Quarter | 3.48 | - | 3.48 | 0.10 | 0.44 | 3.05 |
| | Iind Quarter | 3.05 | - | 3.05 | 0.09 | 0.44 | 2.61 |
| | IIIrd Quarter | 2.61 | - | 2.61 | 0.08 | 0.44 | 2.18 |
| | Ivth Quarter | 2.18 | | 2.18 | 0.06 | 0.44 | 1.74 |
| | | | | | 0.33 | 1.74 | |
| VTH YEAR | Opening Balance | | | | | | |
| | Ist Quarter | 1.74 | - | 1.74 | 0.05 | 0.44 | 1.31 |
| | Iind Quarter | 1.31 | - | 1.31 | 0.04 | 0.44 | 0.87 |
| | IIIrd Quarter | 0.87 | - | 0.87 | 0.03 | 0.55 | 0.32 |
| | Ivth Quarter | 0.32 | | 0.32 | 0.01 | 0.55 | - 0.23 |
| | | | | | 0.12 | 1.97 | |

CALCULATION OF D.S.C.R

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|-------------------------|----------|-----------|------------|-----------|----------|
| | | | | | |
| | | | | | |
| | | | | | |
| <u>CASH ACCRUALS</u> | 10.12 | 9.62 | 10.69 | 12.34 | 13.97 |
| | | | | | |
| Interest on Term Loan | 0.60 | 0.73 | 0.53 | 0.33 | 0.12 |
| | | | | | |
| Total | 10.72 | 10.35 | 11.21 | 12.67 | 14.10 |
| | | | | | |
| <u>REPAYMENT</u> | | | | | |
| Instalment of Term Loan | 1.74 | 1.74 | 1.74 | 1.97 | 1.97 |
| Interest on Term Loan | 0.60 | 0.73 | 0.53 | 0.33 | 0.12 |
| Total | 2.34 | 2.47 | 2.27 | 2.30 | 2.09 |
| | | | | | |
| DEBT SERVICE COVERAGE R | 4.58 | 4.19 | 4.95 | 5.52 | 6.74 |
| AVERAGE D.S.C.R. | | | 5.19 | | |

| COMP | TITA | TION | OE | SALE |
|------|------|------|----|------|
| COMP | UIA | HON | UГ | SALE |

| Particulars | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|----------------------|----------|-----------|------------|-----------|----------------|
| | | | | | |
| | | | | | |
| Op Stock | - | 3,600 | 21,000 | 24,000 | 27,000 |
| | | | | | |
| Production | 360,000 | 420,000 | 480,000 | 540,000 | 600,000 |
| | 260,000 | 100 (00 | F01 000 | 544000 | (27 000 |
| | 360,000 | 423,600 | 501,000 | 564,000 | 627,000 |
| Less : Closing Stock | 3,600 | 21,000 | 24,000 | 27,000 | 30,000 |
| Net Sale | 356,400 | 402,600 | 477,000 | 537,000 | 597,000 |
| Sale Price per MT | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 |
| Sale (in Lacs) | 92.66 | 104.68 | 124.02 | 139.62 | 155,22 |
| Sale (III Lacs) | 92.00 | 104.00 | 124.02 | 139.02 | 155,22 |
| | | | | | |
| | | • | | | |

COMPUTATION OF ELECTRICITY

| CONIT CTITITION OF EEECTRICITY | | | |
|--------------------------------------|----------|--------|--------------|
| (A) POWER CONNECTION | | | |
| | | | |
| Total Working Hour per day | Hours | 8 | |
| Electric Load Required | | 3 | |
| Load Factor | | 0.7460 | |
| Electricity Charges | per unit | 8.00 | |
| Total Working Days | | 300 | |
| Electricity Charges (8 Hrs Per day) | | | 42,969.60 |
| 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% | | | 0.43 |
| Total cost of Fower & Fuer at 100 /0 | | | 0.43 |
| Year | Capacity | | Amount |
| | | | (in Lacs) |
| IST YEAR | 60% | | 0.26 |
| IIND YEAR | 70% | | 0.30 |
| IIIRD YEAR | 80% | | 0.34 |
| IVTH YEAR | 90% | | 0.39 |
| VTH YEAR | 100% | | 0.43 |
| | | | |

BREAK EVEN POINT ANALYSIS

| Year | I | II | III | IV | V |
|---|-------|--------|--------|--------|--------|
| | | | | | |
| Net Sales & Other Income | 92.66 | 104.68 | 124.02 | 139.62 | 155.22 |
| Less : Op. WIP Goods | - | 0.75 | 4.37 | 4.99 | 5.62 |
| Add : Cl. WIP Goods | 0.75 | 4.37 | 4.99 | 5.62 | 6.24 |
| Total Sales | 93.41 | 108.30 | 124.64 | 140.24 | 155.84 |
| Variable & Semi Variable Exp. | | | | | |
| Raw Material & Tax | 72.00 | 84.00 | 96.00 | 108.00 | 120.00 |
| Electricity Exp/Coal Consumption at 85% | 0.22 | 0.26 | 0.29 | 0.33 | 0.37 |
| Manufacturing Expenses 80% | 1.48 | 2.51 | 2.98 | 3.35 | 3.73 |
| Wages & Salary at 60% | 2.06 | 2.27 | 2.49 | 2.74 | 3.01 |
| Selling & adminstrative Expenses 80% | 3.71 | 4.19 | 4.96 | 5.58 | 6.21 |
| Intt. On Working Capital Loan | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Total Variable & Semi Variable Exp | 79.99 | 93.74 | 107.24 | 120.52 | 133.83 |
| Contribution | 13.43 | 14.56 | 17.40 | 19.72 | 22.01 |
| Fixed & Semi Fixed Expenses | | | | | |
| | | | | | |
| Manufacturing Expenses 20% | 0.37 | 0.63 | 0.74 | 0.84 | 0.93 |
| Electricity Exp/Coal Consumption at 15% | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 |
| Wages & Salary at 40% | 1.37 | 1.51 | 1.66 | 1.83 | 2.01 |
| Interest on Term Loan | 0.60 | 0.73 | 0.53 | 0.33 | 0.12 |
| Depreciation | 0.91 | 0.82 | 0.71 | 0.62 | 0.54 |
| Selling & adminstrative Expenses 20% | 0.93 | 1.05 | 1.24 | 1.40 | 1.55 |
| Total Fixed Expenses | 4.22 | 4.77 | 4.94 | 5.06 | 5.22 |
| Capacity Utilization | 60% | 70% | 80% | 90% | 100% |
| OPERATING PROFIT | 9.21 | 9.78 | 12.47 | 14.66 | 16.79 |
| BREAK EVEN POINT | 19% | 23% | 23% | 23% | 24% |
| BREAK EVEN SALES | 29.34 | 35.52 | 35.34 | 36.02 | 36.96 |



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