# MODEL PROJECT REPORT

**PROJECT REPORT ON BLACK INSULATION TAPE**

## SWAVALAMBI BHARAT ABHIYAN

## PROJECT AT A GLANCE

| | | | | |
|---|---|---|---|---|
| 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 |
| | | | Mobile | XXXXX |
| 5 | Product and By Product | : | **Black Insulation Tape** | |
| 6 | Name of the project / business activity proposed | : | **Black Insulation Tape** | |
| 7 | Cost of Project | : | Rs18.00lac | |
| 8 | Means of Finance | | | |
| | Term Loan | | Rs.12.56 Lacs | |
| | KVIC Margin Money | - | As per Project Eligibility | |
| | Own Capital | | Rs.1.8 Lacs | |
| | Working Capital | | Rs.3.63 Lacs | |
| 9 | Debt Service Coverage Ratio | : | 5.01 | |
| 10 | Pay Back Period | : | 5 | Years |
| 11 | Project Implementation Period | : | 8 | Months |
| 12 | Break Even Point | : | 21% | |
| 13 | Employment | : | 7 | Persons |
| 14 | Power Requirement | : | 7.00 | HP |
| 15 | Major Raw materials | : | Fabric Rubber resin Benzene etc | |
| 16 | Estimated Annual Sales Turnover | : | 28.35 | 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) | 4.00 |
| Plant & Machinery | 9.00 |
| Furniture & Fixtures | 0.46 |
| Pre-operative Expenses | 0.50 |
| Working Capital Requirement | 4.04 |
| Total | **18.00** |

MEANS OF FINANCE

| Particulars | Amount |
|---|---|
| Own Contribution @10% | 1.80 |
| Term Loan | 12.56 |
| Workign Capital Finance | 3.63 |
| Total | **18.00** |

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

# PROJECT REPORT
# ON
# BLACK INSULATING TAPE

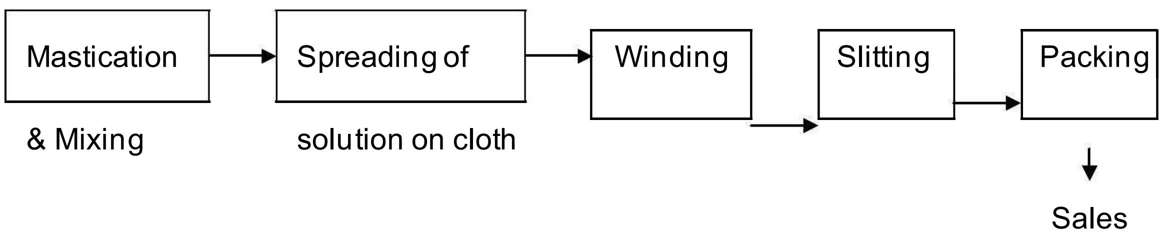
**Introduction:** Cotton selvedge tape for electrical insulation purposes as per IS:1923-1973 and IS:2448 (Part-I)-1963 of Bureau of Indian standards are often referred to as Black Tape. These are used in manufacture of ovens, Furnaces, Motors, etc. and in household electrical wirings & equipments. These are resistant to pressure & temperature. Electrical insulation is the main feature of Black Tapes. It is also used by cable manufacturers to cover conductors.

**Market**: Black insulating tapes are used to cover joints of two conductors and hence an item of everyday use of all electrifications. Joining of more than one cable/ conductor is unavoidable in electrification works and hence Black Tape is a need for electrification works. With massive Electric generation and hence distribution network under implementation in Tripura, therefore, large demand for Black insulating tapes exist. These are sold through all Electrical stores in the state.

**Installed Capacity**: Operating for single shift of 8 hours per day for 300 working days per annum, the unit shall have an annual installed capacity to produce 2.64 Lakh rolls of Black insulation tapes.

**Process of Manufacture**: The unit will purchase 54 inch wide evenly and firmly woven cotton fabrics, free from weaving defects. Normally the fabric is Black in colour. Rubber compound with 12.50 percent Crepe Rubber, 5 percent National Rubber, 49.50 percent asbestos powder, 12.50 percent Resin, 0.50 percent Carbon Black and 20 percent castor oil are made in Mixing Mill so that the Rubber mix is made into a homogeneous mass. This Rubber mass is mixed with turpentine oil/ Benzene in the same Mixing Mill. This fluid is spread over the cotton fabric in a spreading Machine by using Doctors Blade Technique so that the cost of Rubber solution is uniform. The coated fabric is cut to the required width on a slitting Machine and wound on a winding machine into rolls of desired length. These are then labeled on sides of Rolls and packed in polyethylene.

**Process Flow Sheet**:




**Raw Materials:** The principal raw material of the unit will be petroleum based solvent as double the quantum of all other raw materials taken together shall be solvent. It will be available from Assam Oil Division of Indian Oil Corporation. All other raw materials are available comparatively cheap. The annual requirement at the installed capacity and costs are shown below:

| Sl.No. | Description | Quantity required | Cost in Rs. |
|---|---|---|---|
| 1. | Benzene | 3000 Liters | 2,55,000.00 |
| 2. | Asbestos Powder | 743 kilograms | 52,010.00 |
| 3. | Castor oil | 300 Liters | 30,000.00 |
| 4. | Crepe Rubber | 188 kilograms | 37,600.00 |
| 5. | Resin | 187 kilograms | 14,025.00 |
| 6. | National Rubber | 75 kilograms | 11,250.00 |
| 7. | Carbon Black | 8 kilograms | 400.00 |

| | | | |
|---|---|---|---|
| 8. | Zinc oxide | 8 kilograms | 1,600.00 |
| 9. | Labels | 1,50,000 Numbers | 15,000.00 |
| 10. | Polyethylene films | 100 kilograms | 45,000.00 |
| | | Total: | 4,61,885.00 |

## PROJECTED BALANCE SHEET

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| ***SOURCES OF FUND*** | | | | | |
| Capital Account | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| Retained Profit | 14.93 | 31.12 | 48.26 | 65.16 | 81.65 |
| Term Loan | 12.56 | 9.42 | 6.28 | 3.14 | 0.47 |
| Cash Credit | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 |
| Sundry Creditors | 0.08 | 0.09 | 0.10 | 0.10 | 0.10 |
| Provisions & Other Liab | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 |
| **TOTAL :** | **33.36** | **46.45** | **60.51** | **74.31** | **88.17** |
| ***APPLICATION OF FUND*** | | | | | |
| **Fixed Assets ( Gross)** | 13.46 | 13.46 | 13.46 | 13.46 | 13.46 |
| Gross Dep. | 1.77 | 3.32 | 4.66 | 5.82 | 6.82 |
| Net Fixed Assets | 11.69 | 10.14 | 8.80 | 7.64 | 6.64 |
| **Current Assets** | | | | | |
| Sundry Debtors | 0.95 | 1.19 | 1.34 | 1.35 | 1.35 |
| Stock in Hand | 3.17 | 3.62 | 4.07 | 4.07 | 4.07 |
| Cash and Bank | 15.06 | 28.76 | 43.28 | 57.92 | 72.45 |
| Deposits & Advances | 2.50 | 2.75 | 3.03 | 3.33 | 3.66 |
| **TOTAL :** | **33.36** | **46.45** | **60.51** | **74.31** | **88.17** |
| | - | - | - | - | - |

## PROJECTED CASH FLOW STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| ***SOURCES OF FUND*** | | | | | |
| Share Capital | 1.80 | - | | | |
| Reserve & Surplus | 14.93 | 17.99 | 21.43 | 21.12 | 20.61 |
| Depriciation & Exp. W/off | 1.77 | 1.55 | 1.34 | 1.16 | 1.00 |
| Increase in Cash Credit | 3.63 | - | - | - | - |
| Increase In Term Loan | 12.56 | - | - | - | - |
| Increase in Creditors | 0.08 | 0.01 | 0.01 | - | - |
| Increase in Provisions | 0.36 | 0.04 | 0.04 | 0.04 | 0.05 |
| **TOTAL :** | **35.13** | **19.59** | **22.82** | **22.32** | **21.66** |
| ***APPLICATION OF FUND*** | | | | | |
| Increase in Fixed Assets | 13.46 | - | - | - | - |
| Increase in Stock | 3.17 | 0.45 | 0.45 | - | - |
| Increase in Debtors | 0.95 | 0.24 | 0.15 | 0.02 | - |
| Increase in Deposits & Adv | 2.50 | 0.25 | 0.28 | 0.30 | 0.33 |
| Repayment of Term Loan | - | 3.14 | 3.14 | 3.14 | 2.67 |
| Taxation | - | 1.80 | 4.29 | 4.22 | 4.12 |
| **TOTAL :** | **20.07** | **5.88** | **8.31** | **7.68** | **7.13** |
| Opening Cash & Bank Balance | - | 15.06 | 28.76 | 43.28 | 57.92 |
| Add : Surplus | 15.06 | 13.71 | 14.52 | 14.64 | 14.53 |
| Closing Cash & Bank Balance | **15.06** | **28.76** | **43.28** | **57.92** | **72.45** |

## PROJECTED PROFITABILITY STATEMENT

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| **A) SALES** | | | | | |
| Gross Sale | 28.35 | 35.55 | 40.05 | 40.50 | 40.50 |
| **Total (A)** | **28.35** | **35.55** | **40.05** | **40.50** | **40.50** |
| **B) COST OF SALES** | | | | | |
| Raw Mateiral Consumed | 3.23 | 3.70 | 4.16 | 4.16 | 4.16 |
| Elecricity Expenses | 0.70 | 0.80 | 0.90 | 0.90 | 0.90 |
| Repair & Maintenance | - | 0.36 | 0.40 | 0.41 | 0.41 |
| Labour & Wages | 4.75 | 5.23 | 5.75 | 6.32 | 6.96 |
| Depriciation | 1.77 | 1.55 | 1.34 | 1.16 | 1.00 |
| Consumables and Other Expense | 0.57 | 0.71 | 0.80 | 0.81 | 0.81 |
| **Cost of Production** | 11.03 | 12.34 | 13.35 | 13.76 | 14.23 |
| **Add: Opening Stock /WIP** | - | 2.52 | 2.88 | 3.24 | 3.24 |
| **Less: Closing Stock /WIP** | 2.52 | 2.88 | 3.24 | 3.24 | 3.24 |
| Cost of Sales (B) | 8.51 | 11.98 | 12.99 | 13.76 | 14.23 |
| **C) GROSS PROFIT (A-B)** | 19.84 | 23.57 | 27.06 | 26.74 | 26.27 |
| | **70%** | **66%** | **68%** | **66%** | **65%** |
| D) Bank Interest (Term Loan ) | 1.08 | 1.31 | 0.95 | 0.59 | 0.23 |
| Bank Interest ( C.C. Limit ) | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| E) Salary to Staff | 2.90 | 3.19 | 3.51 | 3.87 | 4.25 |
| F) Selling & Adm Expenses Exp. | 0.57 | 0.71 | 0.80 | 0.81 | 0.81 |
| TOTAL (D+E) | **4.92** | **5.58** | **5.63** | **5.63** | **5.66** |
| H) NET PROFIT | 14.93 | 17.99 | 21.43 | 21.12 | 20.61 |
| I) Taxation | - | 1.80 | 4.29 | 4.22 | 4.12 |
| J) PROFIT (After Tax) | 14.93 | 16.19 | 17.15 | 16.90 | 16.49 |

## COMPUTATION OF MANUFACTURING OF BLACK INSULATION TAPE

**Items to be Manufactured** **Black insulation tape**

| | | | |
|---|---|---|---|
| Manufacturing Capacity per day | - | 750.00 | pcs |
| | - | | |
| No. of Working Hour | | 8 | |
| | | | |
| No of Working Days per month | | 25 | |
| | | | |
| No. of Working Day per annum | | 300 | |
| | | | |
| Total Production per Annum | | 2,25,000.00 | pcs |
| | | | |
| Year | | Capacity Utilisation | pcs |
| | | | |
| IST YEAR | | 70% | 1,57,500 |
| IIND YEAR | | 80% | 1,80,000 |
| IIIRD YEAR | | 90% | 2,02,500 |
| IVTH YEAR | | 90% | 2,02,500 |
| VTH YEAR | | 90% | 2,02,500 |
| | | | |

## COMPUTATION OF RAW MATERIAL

| Item Name | UOM | Quantity of Raw Material | | Unit Rate | Total Cost Per Annum (100%) |
|---|---|---|---|---|---|
| Benzene | Litres | 3000 | | 85.00 | 2,55,000.00 |
| Asbestos Powder | Kilograms | 743 | | 70.00 | 52,010.00 |
| Castor oil | Litres | 300 | | 100.00 | 30,000.00 |
| Crepe Rubber | Kilograms | 188 | | 200.00 | 37,600.00 |
| Resin | Kilograms | 187 | | 75.00 | 14,025.00 |
| National Rubber | Kilograms | 75 | | 150.00 | 11,250.00 |
| Carbon Black | Kilograms | 8 | | 50.00 | 400.00 |
| Zinc oxide | Kilograms | 8 | | 200.00 | 1,600.00 |
| Labels | Numbers | 1,50,000.00 | | 0.10 | 15,000.00 |
| Polyethylene films | Kilograms | 100 | | 450.00 | 45,000.00 |
| | | | Total (Rounded off in lacs) | | 4,61,885.00 |

| | | |
|---|---|---|
| Annual Consumption cost | ( In Lacs) | 4.62 |

| Raw Material Consumed | Capacity Utilisation | Amount (Rs.) |
|---|---|---|
| IST YEAR | 70% | 3.23 |
| IIND YEAR | 80% | 3.70 |
| IIIRD YEAR | 90% | 4.16 |
| IVTH YEAR | 90% | 4.16 |
| VTH YEAR | 90% | 4.16 |

## COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| **Finished Goods** | | | | | |
| (30 Days requirement) | 2.52 | 2.88 | 3.24 | 3.24 | 3.24 |
| **Raw Material** | | | | | |
| (60Days requirement) | 0.65 | 0.74 | 0.83 | 0.83 | 0.83 |
| | | | | | |
| | | | | | |
| **Closing Stock** | **3.17** | **3.62** | **4.07** | **4.07** | **4.07** |

## COMPUTATION OF WORKING CAPITAL REQUIREMENT

| Particulars | | | Total Amount |
|---|---|---|---|
| Stock in Hand | | | 3.17 |
| | | | |
| Sundry Debtors | | | 0.95 |
| | | Total | 4.11 |
| Sundry Creditors | | | 0.08 |
| | | | |
| Working Capital Requirement | | | **4.04** |
| | | | |
| Margin | | | 0.40 |
| | | | |
| Working Capital Finance | | | **3.63** |

**BREAK UP OF LABOUR**

| Particulars | | Wages | No of | Total |
|---|---|---|---|---|
| | | Per Month | Employees | Salary |
| | | | | |
| Skilled Worker | | 9,000.00 | 2 | 18,000.00 |
| Unskilled Worker | | 6,000.00 | 3 | 18,000.00 |
| | | | | |
| | | | | |
| | | | | 36,000.00 |
| Add: 10% Fringe Benefit | | | | 3,600.00 |
| Total Labour Cost Per Month | | | | 39,600.00 |
| Total Labour Cost for the year ( In Rs. Lakhs) | | | 5 | 4.75 |

**BREAK UP OF SALARY**

| Particulars | | Salary | No of | Total |
|---|---|---|---|---|
| | | Per Month | Employees | Salary |
| Manager cum chemist | | 12,000.00 | 1 | 12,000.00 |
| Sales | | 10,000.00 | 1 | 10,000.00 |
| Total Salary Per Month | | | | 22,000.00 |
| | | | | |
| Add: 10% Fringe Benefit | | | | 2,200.00 |
| Total Salary for the month | | | | 24,200.00 |
| | | | | |
| Total Salary for the year ( In Rs. Lakhs) | | | 2 | 2.90 |

**COMPUTATION OF DEPRECIATION**

| Description | Land | Building/shed | Plant & Machinery | Furniture | **TOTAL** |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| Rate of Depreciation | | **10.00%** | **15.00%** | **10.00%** | |
| **Opening Balance** | Leased | - | - | - | - |
| Addition | - | 4.00 | 9.00 | 0.46 | 13.46 |
| | - | 4.00 | 9.00 | 0.46 | 13.46 |
| Less : Depreciation | - | 0.40 | 1.35 | 0.02 | 1.77 |
| WDV at end of Ist year | - | 3.60 | 7.65 | 0.44 | 11.69 |
| Additions During The Year | - | - | - | - | - |
| | - | 3.60 | 7.65 | 0.44 | 11.69 |
| Less : Depreciation | - | 0.36 | 1.15 | 0.04 | 1.55 |
| WDV at end of IInd Year | - | 3.24 | 6.50 | 0.39 | 10.14 |
| Additions During The Year | - | - | - | - | - |
| | - | 3.24 | 6.50 | 0.39 | 10.14 |
| Less : Depreciation | - | 0.32 | 0.98 | 0.04 | 1.34 |
| WDV at end of IIIrd year | - | 2.92 | 5.53 | 0.35 | 8.80 |
| Additions During The Year | - | - | - | - | - |
| | - | 2.92 | 5.53 | 0.35 | 8.80 |
| Less : Depreciation | - | 0.29 | 0.83 | 0.04 | 1.16 |
| WDV at end of IV year | - | 2.62 | 4.70 | 0.32 | 7.64 |
| Additions During The Year | - | - | - | - | - |
| | - | 2.62 | 4.70 | 0.32 | 7.64 |
| Less : Depreciation | - | 0.26 | 0.70 | 0.03 | 1.00 |
| WDV at end of Vth year | - | 2.36 | 3.99 | 0.29 | 6.64 |

**REPAYMENT SCHEDULE OF TERM LOAN** 11.5%

| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
|---|---|---|---|---|---|---|---|
| **IST YEAR** | Opening Balance | | | | | | |
| | Ist Quarter | - | 12.56 | 12.56 | - | - | 12.56 |
| | Iind Quarter | 12.56 | - | 12.56 | 0.36 | - | 12.56 |
| | IIIrd Quarter | 12.56 | - | 12.56 | 0.36 | - | 12.56 |
| | Ivth Quarter | 12.56 | - | 12.56 | 0.36 | - | 12.56 |
| | | | | | 1.08 | - | |
| **IIND YEAR** | Opening Balance | | | | | | |
| | Ist Quarter | 12.56 | - | 12.56 | 0.36 | 0.79 | 11.78 |
| | Iind Quarter | 11.78 | - | 11.78 | 0.34 | 0.79 | 10.99 |
| | IIIrd Quarter | 10.99 | - | 10.99 | 0.32 | 0.79 | 10.21 |
| | Ivth Quarter | 10.21 | | 10.21 | 0.29 | 0.79 | 9.42 |
| | | | | | 1.31 | 3.14 | |
| **IIIRD YEAR** | Opening Balance | | | | | | |
| | Ist Quarter | 9.42 | - | 9.42 | 0.27 | 0.79 | 8.64 |
| | Iind Quarter | 8.64 | - | 8.64 | 0.25 | 0.79 | 7.85 |
| | IIIrd Quarter | 7.85 | - | 7.85 | 0.23 | 0.79 | 7.07 |
| | Ivth Quarter | 7.07 | | 7.07 | 0.20 | 0.79 | 6.28 |
| | | | | | 0.95 | 3.14 | |
| **IVTH YEAR** | Opening Balance | | | | | | |
| | Ist Quarter | 6.28 | - | 6.28 | 0.18 | 0.79 | 5.50 |
| | Iind Quarter | 5.50 | - | 5.50 | 0.16 | 0.79 | 4.71 |
| | IIIrd Quarter | 4.71 | - | 4.71 | 0.14 | 0.79 | 3.93 |
| | Ivth Quarter | 3.93 | | 3.93 | 0.11 | 0.79 | 3.14 |
| | | | | | 0.59 | 3.14 | |
| **VTH YEAR** | Opening Balance | | | | | | |
| | Ist Quarter | 3.14 | - | 3.14 | 0.09 | 0.79 | 2.36 |
| | Iind Quarter | 2.36 | - | 2.36 | 0.07 | 0.79 | 1.57 |
| | IIIrd Quarter | 1.57 | - | 1.57 | 0.05 | 0.55 | 1.02 |
| | Ivth Quarter | 1.02 | | 1.02 | 0.03 | 0.55 | 0.47 |
| | | | | | 0.23 | 2.67 | |

CALCULATION OF D.S.C.R

| PARTICULARS | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| **CASH ACCRUALS** | 16.70 | 17.74 | 18.49 | 18.05 | 17.49 |
| | | | | | |
| Interest on Term Loan | 1.08 | 1.31 | 0.95 | 0.59 | 0.23 |
| | | | | | |
| Total | 17.78 | 19.05 | 19.43 | 18.64 | 17.72 |
| | | | | | |
| **REPAYMENT** | | | | | |
| Instalment of Term Loan | 3.14 | 3.14 | 3.14 | 2.67 | 2.67 |
| Interest on Term Loan | 1.08 | 1.31 | 0.95 | 0.59 | 0.23 |
| | | | | | |
| Total | 4.22 | 4.45 | 4.09 | 3.26 | 2.90 |
| | | | | | |
| **DEBT SERVICE COVERAGE R** | **4.21** | **4.28** | **4.75** | **5.72** | **6.10** |
| | | | | | |
| **AVERAGE D.S.C.R.** | | | **5.01** | | |

**COMPUTATION OF SALE**

| Particulars | IST YEAR | IIND YEAR | IIIRD YEAR | IVTH YEAR | VTH YEAR |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| Op Stock | - | 15,750.00 | 18,000.00 | 20,250.00 | 20,250.00 |
| | | | | | |
| Production | 1,57,500.00 | 1,80,000.00 | 2,02,500.00 | 2,02,500.00 | 2,02,500.00 |
| | | | | | |
| | 1,57,500.00 | 1,95,750.00 | 2,20,500.00 | 2,22,750.00 | 2,22,750.00 |
| Less : Closing Stock | 15,750.00 | 18,000.00 | 20,250.00 | 20,250.00 | 20,250.00 |
| | | | | | |
| Net Sale | 1,41,750.00 | 1,77,750.00 | 2,00,250.00 | 2,02,500.00 | 2,02,500.00 |
| | | | | | |
| Sale Price per Average | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| | | | | | |
| **Sale (in Lacs)** | **28.35** | **35.55** | **40.05** | **40.50** | **40.50** |
| | | | | | |
| | | | | | |
| | | | | | |

**COMPUTATION OF ELECTRICITY**

| | | | | |
|---|---|---|---|---|
| **(A) POWER CONNECTION** | | | | |
| | | | | |
| Total Working Hour per day | | Hours | 8 | |
| Electric Load Required | | HP | 7 | |
| Load Factor | | | 0.7460 | |
| Electricity Charges | | per unit | 8.00 | |
| Total Working Days | | | 300 | |
| **Electricity Charges ( 8 Hrs Per day )** | | | | 1,00,262.40 |
| | | | | |
| 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% | | | | 1.00 |
| | | | | |
| **Year** | | **Capacity** | | **Amount** |
| | | | | **(in Lacs)** |
| | | | | |
| IST YEAR | | 70% | | 0.70 |
| IIND YEAR | | 80% | | 0.80 |
| IIIRD YEAR | | 90% | | 0.90 |
| IVTH YEAR | | 90% | | 0.90 |
| VTH YEAR | | 90% | | 0.90 |
| | | | | |

**BREAK EVEN POINT ANALYSIS**

| Year | I | II | III | IV | V |
|---|---|---|---|---|---|
| | | | | | |
| **Net Sales & Other Income** | 28.35 | 35.55 | 40.05 | 40.50 | 40.50 |
| Less : Op. WIP Goods | - | 2.52 | 2.88 | 3.24 | 3.24 |
| Add : Cl. WIP Goods | 2.52 | 2.88 | 3.24 | 3.24 | 3.24 |
| | | | | | |
| **Total Sales** | **30.87** | **35.91** | **40.41** | **40.50** | **40.50** |
| | | | | | |
| **Variable & Semi Variable Exp.** | | | | | |
| | | | | | |
| Raw Material & Tax | 3.23 | 3.70 | 4.16 | 4.16 | 4.16 |
| Electricity Exp/Coal Consumption at 85% | 0.60 | 0.68 | 0.77 | 0.77 | 0.77 |
| Manufacturing Expenses 80% | 0.45 | 0.85 | 0.96 | 0.97 | 0.97 |
| Wages & Salary at 60% | 4.59 | 5.05 | 5.56 | 6.11 | 6.73 |
| Selling & adminstrative Expenses 80% | 0.45 | 0.57 | 0.64 | 0.65 | 0.65 |
| Intt. On Working Capital Loan | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| **Total Variable & Semi Variable Exp** | **9.69** | **11.22** | **12.45** | **13.02** | **13.63** |
| | | | | | |
| **Contribution** | **21.18** | **24.69** | **27.96** | **27.48** | **26.87** |
| | | | | | |
| **Fixed & Semi Fixed Expenses** | | | | | |
| | | | | | |
| Manufacturing Expenses 20% | 0.11 | 0.21 | 0.24 | 0.24 | 0.24 |
| Electricity Exp/Coal Consumption at 15% | 0.11 | 0.12 | 0.14 | 0.14 | 0.14 |
| Wages & Salary at 40% | 3.06 | 3.37 | 3.71 | 4.08 | 4.48 |
| Interest on Term Loan | 1.08 | 1.31 | 0.95 | 0.59 | 0.23 |
| Depreciation | 1.77 | 1.55 | 1.34 | 1.16 | 1.00 |
| Selling & adminstrative Expenses 20% | 0.11 | 0.14 | 0.16 | 0.16 | 0.16 |
| **Total Fixed Expenses** | **6.25** | **6.71** | **6.53** | **6.36** | **6.26** |
| | | | | | |
| **Capacity Utilization** | **70%** | **80%** | **90%** | **90%** | **90%** |
| **OPERATING PROFIT** | **14.93** | **17.99** | **21.43** | **21.12** | **20.61** |
| **BREAK EVEN POINT** | **21%** | **22%** | **21%** | **21%** | **21%** |
| **BREAK EVEN SALES** | **9.11** | **9.75** | **9.43** | **9.37** | **9.43** |

**PLANT & MACHINERY**

| PARTICULARS | QTY. | RATE | AMOUNT IN RS. |
|---|---|---|---|
| | | | |
| 25 Cmx50 Cm Mixing Mill with all accessories | 1 | 3,84,000.00 | 3,84,000.00 |
| Double Roll Spreading Machine | 1 | 2,70,000.00 | 2,70,000.00 |
| Slitting Machine | 1 | 54,000.00 | 54,000.00 |
| Sigma Mixer | 1 | 54,000.00 | 54,000.00 |
| Misc. tools & equipments | 1 | 60,000.00 | 60,000.00 |
| H.V. Break Down Tester, Laboratory Oven, adhesion Test & Pin hole testing equipments | 1 | 78,000.00 | 78,000.00 |
| Total | | | 9,00,000.00 |