## PROJECT REPORT

## Of

## PVC WIRE \& CABLE <br> COATING

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding PVC Wire \& Cable Coating.

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 Project
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 |
| Plant \& Machinery | 28.60 |
| Furniture \& Fixtures | 1.40 |
| Working Capital | 10.00 |
| Total | 40.00 |

MEANS OF FINANCE

| Particulars | Amount |
| :--- | ---: |
| Own Contribution | 4.00 |
| Working Capital(Finance) | 9.00 |
| Term Loan | 27.00 |
| Total | 40.00 |

## PVC WIRE \& CABLE COATING

Introduction: PVC Cables are used for power distribution in all types of electrical wiring, control cables, Telephone cables and signaling in Railways. With the development of industrial sector and with increase in power generation the demand of the cable is going to be more.


Uses \& Market Potential: PVC wire and cables are used in all sectors including housing, electric appliances, vehicles, flexible and cord cables for appliances, Machine Tools and Equipment Wiring Heavy Duty Domestic Wires for House Wiring, Power supply and distribution for houses and other construction needs. The PVC wire and cable industry is an integral part of plastic processing industry which has witnessed an impressive rate of around $15 \%$ during last five years. The main reason being the growth of endues industry namely, building and construction due to aggressive activities in this sector. The wires and cable industry outlook therefore also shows good potential. The PVC wire and cable industry has already established its place and credentials as well as competitive advantage in the construction industry. The industry therefore is expected to register healthy growth.

Raw material: Major raw material requirements are as follows:

- Copper wire for Coating
- PVC Resin Powder
- Other chemicals \& consumables such as Calcium, Wax, Titanium, etc.
- Packing material

Machinery Requirements: Major machineries \& equipments are as follows:

| Description | Quantity | Rate | Value |
| :--- | :--- | :--- | :--- |
| PVC Extruder \& wire coating <br> machine | 1 | 1600000 | 1600000 |
| Wire straightening equipment | 1 | 100000 | 100000 |
| Cable Printing machine | 1 | 60000 | 60000 |
| Measuring \& Coiling machine | 1 | 500000 | 500000 |
| Extrusion Dies, nozzles, etc. | 1 | 70000 | 70000 |
| 4 Bar Rotary machine for creasing <br> \& sizing | 1 | 230000 | 230000 |
| Acentric Slotter | 1 | 250000 | 250000 |
| Testing equipment \& hand tools | Ls |  | 50000 |
| Total Amount |  |  | $\mathbf{2 8 6 0 0 0 0}$ |

Manufacturing Process: E.C. Grade Aluminum wire of the required size is fed into the Extruder where in PVC is coated on the wire to the specified thickness. The extruded wire after passing through the cooling tank is coiled on the takeoff system. The wire is coiled into the length of 100 metres and tested as per IS specification.

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 1500 to 2000Sqft.

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 11 including 1 Supervisor, 2 Plant operator, 2 unskilled worker, 2 Helper and 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.
- NOC from State Pollution Control Board


## 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 | 4.00 | - |  |  |  |
| Reserve \& Surplus | 5.32 | 10.46 | 15.23 | 21.09 | 27.09 |
| Depriciation \& Exp. W/off | 4.43 | 3.77 | 3.21 | 2.74 | 2.33 |
| Increase In Cash Credit | 9.00 |  |  |  |  |
| Increase In Term Loan | 27.00 | - | - | - | - |
| Increase in Creditors | 5.70 | 1.03 | 0.75 | 0.75 | 0.75 |
|  |  |  |  |  |  |
| TOTAL: | 55.45 | 15.27 | 19.19 | 24.58 | 30.17 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| APPLICATION OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Increase in Fixed Assets | 30.00 | - | - | - | - |
| Increase in Stock | 11.55 | 2.07 | 1.60 | 1.62 | 1.63 |
| Increase in Debtors | 4.66 | 0.99 | 0.70 | 0.71 | 0.73 |
| Repayment of Term Loan | 3.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| Taxation | 0.53 | 2.09 | 3.81 | 6.33 | 8.13 |
| Drawings | 3.50 | 4.00 | 7.00 | 9.00 | 12.00 |
| TOTAL: | 53.24 | 15.16 | 19.10 | 23.66 | 28.49 |
|  |  |  |  |  |  |
| Opening Cash \& Bank Balance | - | 2.22 | 2.33 | 2.42 | 3.34 |
|  |  |  |  |  |  |
| Add: Surplus | 2.22 | 0.11 | 0.08 | 0.92 | 1.68 |
|  |  |  |  |  |  |
| Closing Cash \& Bank Balance | 2.22 | 2.33 | 2.42 | 3.34 | 5.02 |


| COMPUTATION OF MAKING OF PVC COATED WIRE \& CABLE |  |  |  |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| Item to be Manufactured PVC Coated wire \& Cable |  |  |  |
| Manufacturing Capacity per day |  | 1,000 | Kg |
|  |  | 8 |  |
| No. of Working Hour |  | 8 |  |
|  |  | 25 |  |
| No of Working Days per month |  |  |  |
|  |  | 300 |  |
| No. of Working Day per annum |  |  |  |
|  |  | $3,00,000$ | Kg |
| Total Production per Annum |  | $3,00,000$ | Kg |
| Total Production per Annum |  | Capacity |  |
| Year |  | Utilisation |  |
|  |  |  |  |
|  |  | $40 \%$ | $1,20,000.00$ |
| I |  | $45 \%$ | $1,35,000.00$ |
| II |  | $50 \%$ | $1,50,000.00$ |
| III |  | $55 \%$ | $1,65,000.00$ |
| IV |  | $60 \%$ | $1,80,000.00$ |
| V |  |  |  |
|  |  |  |  |

COMPUTATION OF RAW MATERIAL

| Item Name | Quantity of <br> Raw Material | Unit | Unit Rate of | Total CostPer Annum <br> $(100 \%)$ |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Copper wire for coating 1 sq mm |  | 110.00 | MT | $3,80,000.00$ | $4,18,00,000.00$ |
| PVC Resin Powder |  | 5.00 | MT | $70,000.00$ | $3,50,000.00$ |
| Other chemicals \& consumables | Ls |  |  | $4,00,000.00$ |  |
| Packing material |  | Ls |  |  | $2,00,000.00$ |
| Total |  |  |  | $4,27,50,000.00$ |  |
|  |  |  |  |  | 4 |
| Total Raw material in Rs lacs |  |  |  | 427.50 |  |


| Raw Material Consumed | Capacity |  | Amount (Rs.) |  |  |
| :--- | ---: | :--- | :--- | :--- | :--- |
|  | Utilisation |  |  |  |  |
|  |  |  |  |  |  |
| I | $40 \%$ |  | 171.00 |  |  |
| II | $45 \%$ | 201.99 | $5 \%$ Increase in Cost |  |  |
| III | $50 \%$ | 224.44 | $5 \%$ Increase in Cost |  |  |
| IV | $55 \%$ | 246.88 | $5 \%$ Increase in Cost |  |  |
| V | $60 \%$ |  | 269.33 | $5 \%$ Increase in Cost |  |
|  |  |  |  |  |  |


| COMPUTATION OF SALE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Particulars | I | II | III | IV | V |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 4,000.00 | 4,500.00 | 5,000.00 | 5,500.00 |
|  |  |  |  |  |  |
| Production | 1,20,000.00 | 1,35,000.00 | 1,50,000.00 | 1,65,000.00 | 1,80,000.00 |
|  |  |  |  |  |  |
|  | 1,20,000.00 | 1,39,000.00 | 1,54,500.00 | 1,70,000.00 | 1,85,500.00 |
| Less : Closing Stock(10 Days) | 4,000.00 | 4,500.00 | 5,000.00 | 5,500.00 | 6,000.00 |
|  |  |  |  |  |  |
| Net Sale | 1,16,000.00 | 1,34,500.00 | 1,49,500.00 | 1,64,500.00 | 1,79,500.00 |
|  |  |  |  |  |  |
| Sale Price per Kg | 172.00 | 180.00 | 182.00 | 184.00 | 186.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 199.52 | 242.10 | 272.09 | 302.68 | 333.87 |



| COMPUTATION OF WORKING CAPITAL REQUIREMENT |  |  |  |
| :--- | ---: | ---: | ---: |
| Particulars |  |  |  |
| Amount | Margin(10\%) | Net |  |
|  |  |  | Amount |
| Stock in Hand | 11.55 |  |  |
| Less: |  |  |  |
| Sundry Creditors | 5.70 |  |  |
| Paid Stock | 5.85 |  | $\mathbf{0 . 5 8}$ |
|  |  |  | 5.26 |
| Sundry Debtors | 4.66 |  | 4.19 |
| Working Capital Requirement |  |  | $\mathbf{9 . 4 5}$ |
|  |  |  |  |
| Margin |  |  | 1.05 |
|  |  |  |  |
| MPBF |  |  | $\mathbf{9 . 4 5}$ |
| Working Capital Demand |  |  | $\mathbf{9 . 0 0}$ |


| BREAK UP OF LABOUR |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
|  |  |  |  |  |
| Particulars |  | Wages | No of | Total |
|  |  | Per Month | Employees | Salary |
| Supervisor |  | $18,000.00$ | 1 | $18,000.00$ |
| Plant Operator |  | $14,000.00$ | 2 | $28,000.00$ |
| Unskilled Worker |  | $10,000.00$ | 2 | $20,000.00$ |
| Helper |  | $8,000.00$ | 2 | $16,000.00$ |
| Security Guard |  | $6,000.00$ | 1 | $6,000.00$ |
|  |  |  |  |  |
|  |  |  |  | $88,000.00$ |
| Add: $5 \%$ Fringe Benefit |  |  |  | $4,400.00$ |
| Total Labour Cost Per Month |  |  |  | $92,400.00$ |
| Total Labour Cost for the year ( In Rs. Lakhs) |  |  | 11.09 |  |


| BREAK UP OF SALARY |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
|  |  |  |  |  |
| Particulars |  | Salary | No of | Total |
|  |  | Per Month | Employees | Salary |
| Manager |  | $12,000.00$ | 1 | $12,000.00$ |
| Accountant cum store keeper |  | $14,000.00$ | 1 | $14,000.00$ |
| Sales |  | $12,000.00$ | 1 | $12,000.00$ |
| Total Salary Per Month |  |  |  | $38,000.00$ |
|  |  |  |  |  |
| Add: 5\% Fringe Benefit |  |  |  | $1,900.00$ |
| Total Salary for the month |  |  |  | $39,900.00$ |
|  |  |  |  |  |
| Total Salary for the year ( In Rs. Lakhs) |  |  |  | 3 |


| COMPUTATION OF DEPRECIATION |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
| Description | Land |  <br> Machinery | Furniture | TOTAL |
|  |  |  |  |  |
|  |  |  |  |  |
| Rate of Depreciation |  |  |  |  |
| Opening Balance | Leased | $\mathbf{1 5 . 0 0} \%$ | $\mathbf{1 0 . 0 0 \%}$ |  |
| Addition | - | - | - | - |
|  | - | 28.60 | 1.40 | 30.00 |
|  |  | 28.60 | 1.40 | 30.00 |
| TOTAL | - | - |  |  |
| Less : Depreciation | - | 28.60 | 1.40 | 30.00 |
| WDV at end of Ist year | - | 4.29 | 0.14 | 4.43 |
| Additions During The Year | - | 24.31 | 1.26 | 25.57 |
|  | - | - | - |  |
| Less : Depreciation | - | 24.31 | 1.26 | 25.57 |
| WDV at end of IInd Year | - | 2.65 | 0.13 | 3.77 |
| Additions During The Year | - | - | 1.13 | 21.80 |
|  | - | 20.66 | - | - |
| Less : Depreciation | - | 3.10 | 0.13 | 21.80 |
| WDV at end of IIIrd year | - | 17.56 | 1.02 | 3.21 |
| Additions During The Year | - | - | 18.58 |  |
|  | - | - | - |  |
| Less : Depreciation | - | 17.56 | 1.02 | 18.58 |
| WDV at end of IV year | - | 2.63 | 0.10 | 2.74 |
| Additions During The Year | - | 14.93 | 0.92 | 15.85 |
|  | - | - | - |  |
| Less : Depreciation | - | 12.69 | 0.83 | 13.52 |
| WDV at end of Vth year | - | - | 0.92 | 15.85 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  |  | 11.0\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
| I | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 27.00 | 27.00 | 0.74 | - | 27.00 |
|  | Iind Quarter | 27.00 | - | 27.00 | 0.74 | - | 27.00 |
|  | IIIrd Quarter | 27.00 | - | 27.00 | 0.74 | 1.50 | 25.50 |
|  | Ivth Quarter | 25.50 | - | 25.50 | 0.70 | 1.50 | 24.00 |
|  |  |  |  |  | 2.93 | 3.00 |  |
| II | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 24.00 | - | 24.00 | 0.66 | 1.50 | 22.50 |
|  | Iind Quarter | 22.50 | - | 22.50 | 0.62 | 1.50 | 21.00 |
|  | IIIrd Quarter | 21.00 | - | 21.00 | 0.58 | 1.50 | 19.50 |
|  | Ivth Quarter | 19.50 |  | 19.50 | 0.54 | 1.50 | 18.00 |
|  |  |  |  |  | 2.39 | 6.00 |  |
| III | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 18.00 | - | 18.00 | 0.50 | 1.50 | 16.50 |
|  | Iind Quarter | 16.50 | - | 16.50 | 0.45 | 1.50 | 15.00 |
|  | IIIrd Quarter | 15.00 | - | 15.00 | 0.41 | 1.50 | 13.50 |
|  | Ivth Quarter | 13.50 |  | 13.50 | 0.37 | 1.50 | 12.00 |
|  |  |  |  |  | 1.73 | 6.00 |  |
| IV | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 12.00 | - | 12.00 | 0.33 | 1.50 | 10.50 |
|  | Iind Quarter | 10.50 | - | 10.50 | 0.29 | 1.50 | 9.00 |
|  | IIIrd Quarter | 9.00 | - | 9.00 | 0.25 | 1.50 | 7.50 |
|  | Ivth Quarter | 7.50 |  | 7.50 | 0.21 | 1.50 | 6.00 |
|  |  |  |  |  | 1.07 | 6.00 |  |
| V | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 6.00 | - | 6.00 | 0.17 | 1.50 | 4.50 |
|  | Iind Quarter | 4.50 | - | 4.50 | 0.12 | 1.50 | 3.00 |
|  | IIIrd Quarter | 3.00 | - | 3.00 | 0.08 | 1.50 | 1.50 |
|  | Ivth Quarter | 1.50 |  | 1.50 | 0.04 | 1.50 | - |
|  |  |  |  |  | 0.41 | 6.00 |  |


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




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