### PROJECT REPORT

Of

# PVC WIRE & CABLE 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.]



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		PROJEC	CT AT A GLANCE			
1	Name of the Entreprenuer		xxxxxxxxx			
2	Constitution (legal Status)		xxxxxxxxx			
3	Father / Spouse Name		xxxxxxxxxx			
4	Unit Address :		xxxxxxxxxxxxxxxxx			
			District : Pin: Mobile		XXXXXXX XXXXXXX XXXXXXX	State: xxxx
5	Product and By Product	:	PVC WIRE & CABLE COATING			
6	Name of the project / business activity proposed :		PVC WIRE & CABLE COATING U	NIT		
7	Cost of Project	:	Rs.40 Lakhs			
8	Means of Finance Term Loan Own Capital Working capital		Rs.27 Lakhs Rs.4 Lakhs Rs.9 Lakhs			
9	Debt Service Coverage Ratio	:		2.34		
10	Pay Back Period	:		5	Years	
11	Project Implementation Period	:		5-6	Months	
12	Break Even Point	:		24%		
13	Employment	:		11	Persons	
	Power Requirement	:		30.00		
	Major Raw materials	:	Copper wire for Coating, PVC Resin			
	Estimated Annual Sales Turnover (Max Capacity)	:	copper wife for country i ve resin		Lakhs	
	Detailed Cost of Project & Means of Finance			000.07		
	COST OF PROJECT		Particulars		(Rs. In Lakhs) Amount	
			Land Plant & Machinery		Own/Re	
			Furniture & Fixtures			28.60 1.40
			Working Capital Total			10.00 <b>40.00</b>
			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	1	1600000	1600000
machine			
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	1	230000	230000
& sizing			
Acentric Slotter	1	250000	250000
Testing equipment & hand tools	Ls		50000
<b>Total Amount</b>			2860000

**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%

**<u>Depreciation:</u>** 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

## <u>Implementation Schedule:</u>

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	5-6 Months
	concurrently)	

## **FINANCIALS**

PROJECTED BALANCE SHEE	Γ				
PARTICULARS	I	п	III	IV	v
TARTICOLING	1			17	•
SOURCES OF FUND					
Capital Account					
Opening Balance	-	5.29	9.66	14.08	19.8
Add: Additions	4.00	-	-	-	-
Add: Net Profit	4.79	8.37	11.42	14.77	18.9
Less: Drawings	3.50	4.00	7.00	9.00	12.0
Closing Balance	5.29	9.66	14.08	19.85	26.8
CC Limit	9.00	9.00	9.00	9.00	9.0
Term Loan	24.00	18.00	12.00	6.00	-
Sundry Creditors	5.70	6.73	7.48	8.23	8.9
TOTAL:	43.99	43.40	42.57	43.08	44.7
APPLICATION OF FUND					
Fixed Assets ( Gross)	30.00	30.00	30.00	30.00	30.0
Gross Dep.	4.43	8.20	11.42	14.15	16.4
Net Fixed Assets	25.57	21.80	18.58	15.85	13.5
Current Assets					
Sundry Debtors	4.66	5.65	6.35	7.06	7.7
Stock in Hand	11.55	13.62	15.22	16.83	18.4
Cash and Bank	2.22	2.33	2.42	3.34	5.0
TOTAL:	43.99	43.40	42.57	43.08	44.7

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PROJECTED PROFITABILITY STATE	MENT_				
PARTICULARS	I	II	III	IV	V
A) SALES					
Gross Sale	199.52	242.10	272.09	302.68	333.87
Total (A)	199.52	242.10	272.09	302.68	333.87
Total (A)	199.32	242.10	272.09	302.00	333.07
B) COST OF SALES					
Raw Material Consumed	171.00	201.99	224.44	246.88	269.33
Elecricity Expenses Repair & Maintenance	1.83 2.00	2.05	2.28	2.51 3.03	2.74 3.34
Labour & Wages	11.09	12.09	13.29	14.62	16.09
Depreciation	4.43	3.77	3.21	2.74	2.33
Cost of Production	190.34	222.33	245.95	269.78	293.82
Add: Opening Stock /WIP	-	5.85	6.89	7.74	8.60
Less: Closing Stock/WIP	5.85	6.89	7.74	8.60	9.49
Cost of Sales (B)	184.49	221.29	245.10	268.91	292.94
C) GROSS PROFIT (A-B)	15.03	20.81	26.99	33.77	40.93
c) Greed Trieff (112)	7.53%	8.60%	9.92%	11.16%	12.26%
D) Bank Interest (Term Loan )	2.93	2.39	1.73	1.07	0.41
ii) Interest On Working Capital	0.99	0.99	0.99	0.99	0.99
E) Salary to Staff	4.79	5.27	6.32	7.58	9.10
F) Selling & Adm Expenses Exp.	1.00	1.69	2.72	3.03	3.34
TOTAL (D+E)	9.70	10.34	11.76	12.67	13.84
H) NET PROFIT	5.32	10.46	15.23	21.09	27.09
	2.7%	4.3%	5.6%	7.0%	8.1%
I) Taxation	0.53	2.09	3.81	6.33	8.13
J) PROFIT (After Tax)	4.79	8.37	11.42	14.77	18.96

PROJECTED CASH FLOW STATE	MENT_				
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 WIL	RE & CABLE		
Item to be Manufactured PVC Coated wire & Cable			
Manufacturing Capacity per day		1,000	Kg
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		3,00,000	Kg
Total Production per Annum		3,00,000	PVC WIRE &
Year		Capacity Utilisation	CABLE COATING
I		40%	1,20,000.00
Ш		45% 50%	1,35,000.00 1,50,000.00
IV		55%	1,65,000.00
V		60%	1,80,000.00

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (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
Total Days material in Dallage				427.50
Total Raw material in Rs lacs				427.50

Raw Material Consumed	Capacity	Amount (Rs.)		
	Utilisation			
I	40%	171.00		
П	45%	201.99	5% Increase in Cost	
III	50%	224.44	5% Increase in Co	ost
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	6,000.0
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 CLOSING STOCK & WORKING CAPITAL						
PARTICULARS	I	П	III	IV	V	
Finished Goods						
(10 Days requirement)	5.85	6.89	7.74	8.60	9.49	
Raw Material						
(10 Days requirement)	5.70	6.73	7.48	8.23	8.98	
Closing Stock	11.55	13.62	15.22	16.83	18.46	

COMPUTATION OF WORKING CAPITA	AL REQUIREMENT		
Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	11.55		
Less:			
Sundry Creditors	5.70		
Paid Stock	5.85	0.58	5.26
Sundry Debtors	4.66	0.47	4.19
Working Capital Requirement			9.45
Margin			1.05
MPBF			9.45
Working Capital Demand			9.00

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)		8	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	4.79

COMPUTATION OF DEPRECIA	<u>ATION</u>			
Description	Land	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		15.00%	10.00%	
Opening Balance	Leased	-	-	-
Addition	-	28.60	1.40	30.00
	-	28.60	1.40	30.00
		-	-	
TOTAL		28.60	1.40	30.00
Less: Depreciation	-	4.29	0.14	4.43
WDV at end of 1st year	_	24.31	1.26	25.57
Additions During The Year	-	-	-	-
	-	24.31	1.26	25.57
Less : Depreciation	-	3.65	0.13	3.77
WDV at end of IInd Year	-	20.66	1.13	21.80
Additions During The Year	-	-	-	-
	-	20.66	1.13	21.80
Less : Depreciation	-	3.10	0.11	3.21
WDV at end of IIIrd year	-	17.56	1.02	18.58
Additions During The Year	-	-	-	-
	-	17.56	1.02	18.58
Less : Depreciation	-	2.63	0.10	2.74
WDV at end of IV year	-	14.93	0.92	15.85
Additions During The Year		-	-	_
	_	14.93	0.92	15.85
Less : Depreciation	-	2.24	0.09	2.33
WDV at end of Vth year	-	12.69	0.83	13.52

REPAYMEN'	T 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
**	0				2.93	3.00	
II	Opening Balance	2100			2.11		
	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 Period60MonthsMoratorium Period6MonthsRepayment Period54Months

CALCULATION OF D.S.C.R							
PARTICULARS	I	II	III	IV	V		
CASH ACCRUALS	9.22	12.14	14.63	17.50	21.29		
Interest on Term Loan	2.93	2.39	1.73	1.07	0.41		
Total	12.15	14.54	16.37	18.57	21.71		
Total	12.13	14.34	10.37	10.5/	41./1		
REPAYMENT							
Repayment of Term Loan	3.00	6.00	6.00	6.00	6.00		
Interest on Term Loan	2.93	2.39	1.73	1.07	0.41		
Total	5.93	8.39	7.73	7.07	6.41		
DEBT SERVICE COVERAGE RATIO	2.05	1.73	2.12	2.63	3.39		
AVERAGE D.S.C.R.	+ +		2.34				
AVERAGE D.S.C.R.	l		4.34				

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
<del></del>			
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	
Total no of Hour		90	riour per day
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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