

PROJECT REPORT

Of

THERMAL PAPER ROLL

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Thermal paper Roll**.

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 AT A GLANCE

- 1 Name of the Entrepreneur : xxxxxxxxxx
- 2 Constitution (legal Status) : xxxxxxxxxx
- 3 Father / Spouse Name : xxxxxxxxxx
- 4 Unit Address : xxxxxxxxxxxxxxxxxxxxxxxx
- District : xxxxxxxx
Pin: xxxxxxxx State: xxxxxxxxxx
Mobile xxxxxxxx
- 5 Product and By Product : **Thermal Paper Rolls,ATM/POS , Cash Rolls, Fax Rolls**
- 6 Name of the project / business activity proposed : **Thermal Paper Rolls Manufacturing Unit**
- 7 Cost of Project : Rs.15.3 Lakhs
- 8 Means of Finance
Term Loan Rs.8.78 Lakhs
KVIC MARGIN MONEY As per Project Eligibility
Own Capital Rs.1.53 Lakhs
Working Capital Rs.5 Lakhs
- 9 Debt Service Coverage Ratio : 2.42
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 5-6 Months
- 12 Break Even Point : 41%
- 13 Employment : 10 Persons
- 14 Power Requirement : 10 KW
- 15 Major Raw materials : Paper Jumbo Roll
- 16 Estimated Annual Sales Turnover (Max Utilized Capacity) : 95.60 Lakhs
- 17 Detailed Cost of Project & Means of Finance

COST OF PROJECT

(Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 2000 sq ft	Own/Rented
Plant & Machinery	8.50
Furniture & Fixtures	1.25
Working Capital Requirement	5.55
Total	15.30

MEANS OF FINANCE

Particulars	Amount
Own Contribution@10%	1.53
Term Loan	8.78
Working Capital	5.00
Total	15.30

	General	Special
Beneficiary Margin Money (% of Project Cost)	10%	5%

THERMAL PAPER ROLLS



INTRODUCTION:

Thermal paper has a specialty coating that allows inkless printing and gives excellent results on printing as it provides reliable, speedy and high definition images. Thermal paper rolls are cost effective as they have lower maintenance costs. Furthermore, thermal printing technology is quieter as compared to its alternatives, which offers a pleasant experience when working with high volumes of printing. Key manufacturers such as Appvion are adopting latest printing technologies such as Techkon SpectroDens for thermal paper rolls to achieve excellent printing results. Attributing to their reliable and durability, thermal paper rolls finds application in various end uses. For instance, retailers use thermal paper rolls for point-of-sale applications such as super stores, grocery store, and ATM banks. In addition, ticket agencies and lottery systems, which require accurate and large volume printouts, also rely on thermal paper rolls.

THERMAL PAPER ROLLS MARKET: DYNAMICS

The advent of digitalization in developing regions such as India has been driving the need for POS systems and subsequently, escalating the demand for thermal paper rolls in the market. In addition, the rising importance of labelling against the counterfeiting of products has been having a positive impact on the demand for thermal paper rolls. Moreover, thermal paper offers excellent coloring capability at high speeds and a highly durable finish that doesn't fade easily. This feature allows printed bar codes to be used in POS food labelling & other applications during their manufacturing and shipping, which has been escalating the demand for thermal paper rolls, globally.

On the other hand, the usage of BPA in thermal paper has a negative impact on human health, which may hamper the growth of the thermal paper rolls market in the near future. Therefore, many retailers are adopting digital receipt software programs that work with existing POS systems and they print customer receipts only on request in order to minimize the usage of thermal paper.

Thermal Paper Rolls Market: Segmentation

On the basis of product type, the global thermal paper market can be segmented as:

- Top coating thermal paper
- Premium & standard thermal paper

On the basis of printing technology type, the global thermal paper rolls market can be segmented as:

- Direct thermal
- Thermal transfer

On the basis of application, the global thermal paper rolls market can be segmented as:

- POS Systems
- Lottery & Gaming
- Labels & Tags
- ATM Receipt
- Others (Handy Terminal)

On the basis of end-use industry, global thermal paper rolls market can be segmented as:

- Transport & logistics
- Retail
- Pharmaceutical
- Apparel
- Food & beverages
- Others

Thermal Paper Rolls Market: Key Developments

Some of the key developments in the global thermal paper rolls market are:

- In 2019, Ricoh Company, Ltd. is planning to expand its manufacturing capabilities in Europe. Ricoh will invest about 3 Billion Yen in Ricoh Industries France S.A.S. to double its coater production capacity, which applies thermal coatings onto paper.
- In 2018, Appvion Operations, Inc. started adopting Techkon Spectro Dens for its thermal paper rolls manufacturing operations as Tech kon Spectro Dens combines the qualities of a highly accurate specto photometer and superior in terms of repeatability, ergonomics, and ease of use.
- In 2016, Oji Holdings Corporation along with Marubeni Corporation acquired the Tele-Paper (M) Sdn Bhd., converting and printing manufacturer of thermal paper rolls and carbonless paper in Malaysia.

The report offers a comprehensive evaluation of the market. It does so via in-depth qualitative insights, historical data, and verifiable projections about market size. The projections featured in the report have been derived using proven research methodologies and assumptions. By doing so, the research report serves as a repository of analysis and information for every facet of the market, including but not limited to: Regional markets, technology, types, and applications.

MACHINE SPECIFICATIONS:

The Slitting Rewinding machine for add cash rolls, fax rolls, ATM Rolls, Thermal Rolls, POS Rolls and other small paper roll converting from big reels. This machine is equipped with easy loading and unloading of rewinding shafts for higher production and lesser downtime. Multi unwind stations can be provided for multiple rolls like Teleprinter rolls Multi-Ply adding machine rolls for billing etc.

THE MACHINE CONSISTS OF:

1. UNWIND

- ✚ One Unwind station for paper reel (of up to 1000 mm dia) mounted on Mechanical shaft with provision for side regulation of the draw unit for alignment. One Mechanical brake will be provided with dancing roller for tension control.
- ✚ Pneumatic reel loading system for loading of the paper in to the machine.

2. SLITTING CUM TRIMMING UNIT

- ✚ The unit is provided with 8 sets of Rotary top and bottom cutters along with spacers to slit the web width up to 7 rolls along with trimming at both the edges.
- ✚ Edge trimming and center slitting is done with male and female cutter made of alloy steel are fitted to give a very fine cut on the web.
- ✚ Trim disposal system with motorized blower.

3. REWINDING UNIT

✚ One Shaft will be inserted into the cores and supported between 2 driven Rollers (Drums). Pneumatically controlled rider roller for perfect rewinding of the reel.

✚ Tape Less Rewinding

4. DRIVE

✚ 5 HP AC thyristor control drive with PLC controls.

• IMPLEMENTATION SCHEDULE

Sr. No.	Particulars	Time Period
1	The Time requirement for preparation of Project report	Two months
2	Time requirement for selection of Site	One month
3	Time required for registration as Small Scale Unit	One Week
4	Time required for acquiring the loan Machinery procurement, erection and commissioning	Three Months

THERMAL PAPER ROLLS LICENSE ®ISTRATION

For Proprietor

Obtain the GST registration.

Additionally, apply for MSME Udyog Aadhaar online registration

Fire/ Pollution Registration as required.

Choice of a Brand Name of the product and secure the name with Trademark if required.

FINANCIAL ASPECTS

PROJECTED CASH FLOW STATEMENT

PARTICULARS	I	II	III	IV	V
<u>SOURCES OF FUND</u>					
Own Contribution@10%	1.53	-			
Net Profit	0.98	2.11	3.88	5.44	7.72
Depreciation & Exp. W/off	1.40	1.20	1.02	0.87	0.75
Increase In Cash Credit	5.00				
Increase In Term Loan	8.78	-	-	-	-
Increase in Creditors	0.84	0.13	0.14	0.15	0.17
TOTAL :	18.52	3.43	5.04	6.47	8.63
<u>APPLICATION OF FUND</u>					
Increase in Fixed Assets	9.75	-	-	-	-
Increase in Stock	2.89	0.40	0.46	0.50	0.54
Increase in Debtors	3.52	0.70	0.67	0.72	0.77
Repayment of Term Loan	0.98	1.95	1.95	1.95	1.95
Taxation	-	-	-	0.02	0.14
Drawings		1.00	2.00	3.00	5.00
TOTAL :	17.13	4.05	5.08	6.19	8.39
Opening Cash & Bank Balance	-	1.39	0.77	0.73	1.01
Add : Surplus	1.39	- 0.62	- 0.04	0.28	0.23
Closing Cash & Bank Balance	1.39	0.77	0.73	1.01	1.25

PROJECTED BALANCE SHEET

PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Capital Account					
Opening Balance	-	2.51	3.62	5.50	7.92
Add: Additions	1.53	-	-	-	-
Add: Net Profit	0.98	2.11	3.88	5.42	7.58
Less: Drawings	-	1.00	2.00	3.00	5.00
Closing Balance	2.51	3.62	5.50	7.92	10.50
CC Limit	5.00	5.00	5.00	5.00	5.00
Term Loan	7.80	5.85	3.90	1.95	-
Sundry Creditors	0.84	0.97	1.11	1.26	1.43
TOTAL :	16.15	15.43	15.50	16.13	16.92
APPLICATION OF FUND					
Fixed Assets (Gross)	9.75	9.75	9.75	9.75	9.75
Gross Dep.	1.40	2.60	3.62	4.49	5.24
Net Fixed Assets	8.35	7.15	6.13	5.26	4.51
Current Assets					
Sundry Debtors	3.52	4.22	4.89	5.61	6.37
Stock in Hand	2.89	3.29	3.76	4.25	4.80
Cash and Bank	1.39	0.77	0.73	1.01	1.25
TOTAL :	16.15	15.43	15.50	16.13	16.92
	-	-	-	-	-

PROJECTED PROFITABILITY STATEMENT

PARTICULARS	I	II	III	IV	V
A) SALES					
Gross Sale	52.74	63.23	73.30	84.09	95.60
Total (A)	52.74	63.23	73.30	84.09	95.60
B) COST OF SALES					
Raw Mateiral Consumed	36.00	41.58	47.63	54.18	61.26
Electricity Expenses	1.35	1.48	1.62	1.75	1.89
Repair & Maintenance	0.26	0.32	0.37	0.42	0.48
Labour & Wages	7.85	8.64	9.50	10.45	11.50
Depreciation	1.40	1.20	1.02	0.87	0.75
Cost of Production	46.87	53.22	60.14	67.68	75.87
Add: Opening Stock /WIP	-	1.09	1.22	1.37	1.55
Less: Closing Stock /WIP	1.09	1.22	1.37	1.55	1.73
Cost of Sales (B)	45.77	53.09	59.98	67.51	75.69
C) GROSS PROFIT (A-B)	6.97	10.13	13.32	16.58	19.91
	13.21%	16.03%	18.17%	19.72%	20.83%
D) Bank Interest (Term Loan)	0.95	0.78	0.56	0.35	0.13
ii) Interest On Working Capital	0.55	0.55	0.55	0.55	0.55
E) Salary to Staff	2.64	2.90	3.19	3.51	3.87
F) Selling & Adm Expenses Exp.	1.85	3.79	5.13	6.73	7.65
TOTAL (D+E)	5.99	8.02	9.44	11.14	12.20
G) NET PROFIT	0.98	2.11	3.88	5.44	7.72
	1.9%	3.3%	5.3%	6.5%	8.1%
H) Taxation	-	-	-	0.02	0.14
I) PROFIT (After Tax)	0.98	2.11	3.88	5.42	7.58

COMPUTATION OF PRODUCTION OF THERMAL PAPER ROLL**Item to be Manufactured THERMAL PAPER ROLLS**

Manufacturing Capacity per Day		1,200	ROLLS
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		360,000	ROLLS
Year		Capacity	Thermal Paper Rolls,ATM/POS , Cash Rolls, Fax Rolls
		Utilisation	
I		50%	180,000
II		55%	198,000
III		60%	216,000
IV		65%	234,000
V		70%	252,000

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Jumbo paper Rolls	900.00	rolls	8,000.00	7,200,000.00
Total	900.00			7,200,000.00

Total Raw material in Rs lacs at 100% Capacity _____ 72.00
 Cost per kg (In Rs) _____ **20.00**

Raw Material Consumed	Capacity Utilisation	Rate	Amount (Rs.)	
I	50%	20.00	36.00	
II	55%	21.00	41.58	5% Increase in Cost
III	60%	22.05	47.63	5% Increase in Cost
IV	65%	23.15	54.18	5% Increase in Cost
V	70%	24.31	61.26	5% Increase in Cost

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	I	II	III	IV	V
Finished Goods					
(7 Days requirement)	1.09	1.22	1.37	1.55	1.73
Raw Material					
(15 Days requirement)	1.80	2.08	2.38	2.71	3.06
Closing Stock	2.89	3.29	3.76	4.25	4.80

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net Amount
Stock in Hand	2.89		
Less:			
Sundry Creditors	0.84		
Paid Stock	2.05	0.21	1.85
Sundry Debtors	3.52	0.35	3.16
Working Capital Requirement			5.01
Margin			0.56
MPBF			5.01
Working Capital Demand			5.00

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Plant Operator	12,000.00	1.00	12,000.00
Unskilled Worker	7,500.00	4.00	30,000.00
Helper	5,000.00	2.00	10,000.00
Security Guard	7,500.00	1.00	7,500.00
			59,500.00
Add: 10% Fringe Benefit			5,950.00
Total Labour Cost Per Month			65,450.00
Total Labour Cost for the year (In Rs. Lakhs)		8	7.85

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Administrative Staff	10,000.00	2	20,000.00
Total Salary Per Month			20,000.00
Add: 10% Fringe Benefit			2,000.00
Total Salary for the month			22,000.00
Total Salary for the year (In Rs. Lakhs)		2	2.64

COMPUTATION OF DEPRECIATION

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation			15.00%	10.00%	
Opening Balance	Own/Rented		-	-	-
Addition	-	-	8.50	1.25	9.75
	-	-	8.50	1.25	9.75
TOTAL		-	8.50	1.25	9.75
Less : Depreciation	-	-	1.28	0.13	1.40
WDV at end of 1st year	-	-	7.23	1.13	8.35
Additions During The Year	-	-	-	-	-
	-	-	7.23	1.13	8.35
Less : Depreciation	-	-	1.08	0.11	1.20
WDV at end of II nd Year	-	-	6.14	1.01	7.15
Additions During The Year	-	-	-	-	-
	-	-	6.14	1.01	7.15
Less : Depreciation	-	-	0.92	0.10	1.02
WDV at end of III rd year	-	-	5.22	0.91	6.13
Additions During The Year	-	-	-	-	-
	-	-	5.22	0.91	6.13
Less : Depreciation	-	-	0.78	0.09	0.87
WDV at end of IV year	-	-	4.44	0.82	5.26
Additions During The Year	-	-	-	-	-
	-	-	4.44	0.82	5.26
Less : Depreciation	-	-	0.67	0.08	0.75
WDV at end of V th year	-	-	3.77	0.74	4.51

REPAYMENT SCHEDULE OF TERM LOAN

11.0%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
I	Opening Balance						
	Ist Quarter	8.78	-	8.78	0.24	-	8.78
	IInd Quarter	8.78	-	8.78	0.24	-	8.78
	IIIrd Quarter	8.78	-	8.78	0.24	0.49	8.29
	Ivth Quarter	8.29	-	8.29	0.23	0.49	7.80
					0.95	0.98	
II	Opening Balance						
	Ist Quarter	7.80	-	7.80	0.21	0.49	7.31
	IInd Quarter	7.31	-	7.31	0.20	0.49	6.83
	IIIrd Quarter	6.83	-	6.83	0.19	0.49	6.34
	Ivth Quarter	6.34	-	6.34	0.17	0.49	5.85
					0.78	1.95	
III	Opening Balance						
	Ist Quarter	5.85	-	5.85	0.16	0.49	5.36
	IInd Quarter	5.36	-	5.36	0.15	0.49	4.88
	IIIrd Quarter	4.88	-	4.88	0.13	0.49	4.39
	Ivth Quarter	4.39	-	4.39	0.12	0.49	3.90
					0.56	1.95	
IV	Opening Balance						
	Ist Quarter	3.90	-	3.90	0.11	0.49	3.41
	IInd Quarter	3.41	-	3.41	0.09	0.49	2.93
	IIIrd Quarter	2.93	-	2.93	0.08	0.49	2.44
	Ivth Quarter	2.44	-	2.44	0.07	0.49	1.95
					0.35	1.95	
V	Opening Balance						
	Ist Quarter	1.95	-	1.95	0.05	0.49	1.46
	IInd Quarter	1.46	-	1.46	0.04	0.49	0.98
	IIIrd Quarter	0.98	-	0.98	0.03	0.49	0.49
	Ivth Quarter	0.49	-	0.49	0.01	0.49	0.00
					0.13	1.95	
	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	2.38	3.30	4.90	6.30	8.33
Interest on Term Loan	0.95	0.78	0.56	0.35	0.13
Total	3.33	4.08	5.46	6.64	8.46
REPAYMENT					
Repayment of Term Loan	0.98	1.95	1.95	1.95	1.95
Interest on Term Loan	0.95	0.78	0.56	0.35	0.13
Total	1.93	2.73	2.51	2.30	2.08
DEBT SERVICE COVERAGE RATIO	1.73	1.50	2.17	2.89	4.06
AVERAGE D.S.C.R.			2.42		

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COMPUTATION OF SALE

Particulars	I	II	III	IV	V
Op Stock	-	4,200.00	4,620.00	5,040.00	5,460.00
Production	180,000.00	198,000.00	216,000.00	234,000.00	252,000.00
	180,000.00	202,200.00	220,620.00	239,040.00	257,460.00
Less : Closing Stock(7 Days)	4,200.00	4,620.00	5,040.00	5,460.00	5,880.00
Net Sale	175,800.00	197,580.00	215,580.00	233,580.00	251,580.00
Sale Price per Rolls	30.00	32.00	34.00	36.00	38.00
Sale (in Lacs)	52.74	63.23	73.30	84.09	95.60

COMPUTATION OF ELECTRICITY**(A) POWER CONNECTION**

Total Working Hour per day	Hours	8	
Electric Load Required	KW	10	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			1.80
Add : Minimim Charges (@ 10%)			

(B) DG set

No. of Working Days		300	days
No of Working Hours		0.5	Hour per day
Total no of Hour		150	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		1,200	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.78	
Add : Lube Cost @15%		0.12	
Total		0.90	

Total cost of Power & Fuel at 100% 2.70

Year	Capacity	Amount (in Lacs)
I	50%	1.35
II	55%	1.48
III	60%	1.62
IV	65%	1.75
V	70%	1.89

BREAK EVEN POINT ANALYSIS					
Year	I	II	III	IV	V
Net Sales & Other Income	52.74	63.23	73.30	84.09	95.60
Less : Op. WIP Goods	-	1.09	1.22	1.37	1.55
Add : Cl. WIP Goods	1.09	1.22	1.37	1.55	1.73
Total Sales	53.83	63.35	73.46	84.26	95.79
Variable & Semi Variable Exp.					
Raw Material & Tax	36.00	41.58	47.63	54.18	61.26
Electricity Exp/Coal Consumption at 85%	1.15	1.26	1.38	1.49	1.60
Wages & Salary at 60%	6.30	6.93	7.62	8.38	9.22
Selling & administrative Expenses 80%	1.48	3.03	4.10	5.38	6.12
ii) Interest On Working Capital	0.55	0.55	0.55	0.55	0.55
Repair & Maintenance	0.26	0.32	0.37	0.42	0.48
Total Variable & Semi Variable Exp	45.73	53.67	61.64	70.40	79.23
Contribution	8.10	9.68	11.81	13.86	16.56
Fixed & Semi Fixed Expenses					
Electricity Exp/Coal Consumption at 15%	0.20	0.22	0.24	0.26	0.28
Wages & Salary at 40%	4.20	4.62	5.08	5.59	6.15
Interest on Term Loan	0.95	0.78	0.56	0.35	0.13
Depreciation	1.40	1.20	1.02	0.87	0.75
Selling & administrative Expenses 20%	0.37	0.76	1.03	1.35	1.53
Total Fixed Expenses	7.12	7.57	7.93	8.42	8.84
Capacity Utilization	50%	55%	60%	65%	70%
OPERATING PROFIT	0.98	2.11	3.88	5.44	7.72
BREAK EVEN POINT	44%	43%	40%	39%	37%
BREAK EVEN SALES	47.32	49.55	49.33	51.17	51.14

FINANCIAL INDICATORS					
PARTICULARS	I	II	III	IV	V
TURNOVER	52.74	63.23	73.30	84.09	95.60
GROSS PROFIT	6.97	10.13	13.32	16.58	19.91
G.P. RATIO	13.21%	16.03%	18.17%	19.72%	20.83%
NET PROFIT	0.98	2.11	3.88	5.44	7.72
PAT/SALES RATIO	1.86%	3.33%	5.29%	6.47%	8.07%
CURRENT ASSETS	7.80	8.28	9.37	10.87	12.41
CURRENT LIABILITIES	5.84	5.97	6.11	6.26	6.42
CURRENT RATIO	1.34	1.39	1.53	1.74	1.93
TERM LOAN	7.80	5.85	3.90	1.95	-
TOTAL NET WORTH	2.51	3.62	5.50	7.92	10.50
DEBT/EQUITY	3.11	1.62	0.71	0.25	-
TOTAL NET WORTH	2.51	3.62	5.50	7.92	10.50
TOTAL OUTSIDE LIABILITIES	13.64	11.82	10.01	8.21	6.42
TOL/TNW	5.43	3.27	1.82	1.04	0.61
PBDIT	3.88	4.63	6.01	7.22	9.15
INTEREST	1.50	1.33	1.11	0.90	0.68
INTEREST COVERAGE RATIO	2.59	3.49	5.41	8.04	13.38
WDV	8.35	7.15	6.13	5.26	4.51
TERM LOAN	7.80	5.85	3.90	1.95	-
FACR	1.07	1.22	1.57	2.70	-

PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
ATM/POS/Thermal Roll Slitting Rewinding Machine with One Color Online Flexo Printing	1	850,000.00	850,000.00
Total Cost			850,000.00

DISCLAIMER

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