#### **PROJECT REPORT**

Of

# PAPER LAMINATION

#### **PURPOSE OF THE DOCUMENT**

This particular pre-feasibility is regarding **Paper Lamination**.

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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#### PAPER LAMINATION

# **Introduction**

Lamination paper is a paper used for laminates. Normally on particle or fibreboards giving a good-looking and resistant surface for use as furniture, decoration panels and flooring.

A laminate consists of a single or multiple layers, each having its own distinct function. The base is most often particle-or fibreboards, then some layers of absorbent Kraft paper. The last layers are a decor paper covered with an overlay. The lamination papers are covered with an inert resin, often melamine, which is cured to form a hard composite with the structure of paper. The laminates may also have a lining on the back side of laminating Kraft to compensate for the tension created by the top side lamination.

Cheaper particle boards may have only a lining of laminating Kraft to give surface wash ability and resistance to wear.

The decor paper can also be processed under heat and low/high pressure to create a melamine laminated sheet, which has several applications.

# **Qualities of Lamination Paper**

- 1. Lamination increases the durability of print materials, allowing them to withstand frequent use.
- 2. Lamination adds protection against fingerprints and smudges, stains and spills, tears and wrinkles, marks and abrasions, plus oil, grease, dirt, moisture and other contaminants.
- 3. Lamination improves appearance by enhancing the ink colors of the printed piece. This creates a more professional look and holds attention longer.
- 4. Lamination adds strength and stiffness, providing an impression of higher quality and importance.
- 5. Lamination is completely transparent and does not impair or blemish the printing in any way.

6. Lamination has a reasonable cost. Also, because lamination increases the longevity of print materials, it saves money on reprinting.

## **Description of Paper Lamination Machine**

There are two types of machinery for Paper Lamination:

- Roll to Roll sheet: It is used for lamination of paper plate, paper cup etc.
- Sheet to Roll Sheet: It is used for the lamination of Sweet Box, Clothes box etc.

These Machines are used to laminate the different types of paper products with the help of raw material. With the help of this machine the work of rolling, laminating completes in a very short span.

## **Paper Lamination Market Analysis**

The laminating base paper is one of the crucial material for the production of aluminium laminated paper which is used as a primary packaging wrap for chocolates and other food items. Sachets & pouches is another major application of laminating base paper. Laminating base paper not only provides strength to the aluminium laminated paper but also provide a smooth surface to provide ease in printing. Direct contact of food products with chemically treated paper is not desirable as it might cause health issues to the end-consumers. Thus, laminating base paper is coated from at least one side with aluminium which makes the paper suitable for food packaging applications. As laminating base paper is primarily used for food packaging applications, huge and further expanding food packaging industry is expected to act as the primary driver for the laminating base paper market globally.

## Paper Lamination Manufacturing Process

- Give input for paper plate or any raw paper from one end of the machine.
- After that give parallel supply of the thin film plastic to the machine from the same end.
- Put the glue in the machine & roll to roll process starts.
- After that the finished product is ready to kept in dies for giving different shapes.

#### **Machinery & Equipment's required:**

Name	Cost
Roll to roll Machine	1,10,000
Sheet to roll Machine	10,00,000

- Cost of the machine is exclusive of GST & value of the machine varies with the change in batch size.
- ❖ This project Financials is based upon the Roll to roll machine.

# Land &Building required:

Land required 200 Square Feet (approx.)

Approximate rent for the same is 4000.

# **Labour Requirement:**

1 Manpower is required for the Paper Lamination unit.

# Raw Material Requirement for paper Lamination

- ❖ Paper
- Plastic polythene
- ❖ Glue

Average raw material cost per KG: Rs. 35-40

#### **Lamination Paper License & registration**

## For Proprietor:

- Obtain the GST registration.
- Choice of a Brand Name of the product and secure the name with Trademark if required.

#### **Implementation Schedule**

S.N.	Activity	Time Required (in Months)
1	Acquisition Of premises	1
2	Construction (if Applicable)	1- 2 Months
3	Procurement & installation of Plant & Machinery	1
4	Arrangement of Finance	1
5	Requirement of required Manpower	1
	Total time Required (some activities shall run concurrently)	1 Months

# **Conclusion:**

After completion of manufacturing process, product is ready to sell in the market. This machine can be installed with low investment & one can earn a good Margin of profit by doing this business.

**PROJECT AT A GLANCE** Name of the Entrepreneur 1 XX **2** Constitution (legal Status) XX **3** Father's/Spouse's Name Xx Unit Address Taluk/Block: XX District: XX Pin: E-Mail XX Mobile XX Product and By Product 5 Paper Lamination Name of the project / business activity 6 proposed: **7** Cost of Project **Rs.** 1.60 8 **Means of Finance** Term Loan **Rs.** 1.44 Lacs 25% of 1.6 Lacs **Rs.** (0.40Lacs) **KVIC Margin Money** Own Capital **Rs.** 0.38 Lacs **Debt Service Coverage Ratio** 4 years 10 10 Pay Back Period month 11 Project Implementation Period 6 months **12** Employment 3 KW **13** Power Requirement connection thin film plastic, paper, **14** Major Raw materials glue **Estimated Annual Sales Turnover** 28.60 Lacs (at 50% **15** capacity) Detailed Cost of Project & Means of **16** Finance **COST OF PROJECT** (Rs. In Lacs) **Particulars** Amount Land **Building & Civil** 

Work

Total	3.82
Contingencies Working Capital Requirement	2.22
Pre-operative Expen	ses
Plant & Machinery Furniture & Fixtures	1.30 0.30

#### **MEANS OF FINANCE**

Particulars	Amount
Own Contribution	0.38
Bank Finance	1.44
working capital	
from bank	2.00
Total	3.82
KVIC Margin Monery	25% of 1.6 Lacs (0.40Lacs)

#### FINANCIAL ASSISTANCE REQUIRED

Term Loan of Rs. 1.44 Lacs and Working Capital limit of Rs. 2.00 Lacs

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PARTICULARS	AMOUNT	AMOUNT	AMOUNT
		10.00%	90.00%
Building Civil Work			
Plant & Machinery Furniture & Fixtures and Other	1.30	0.13	1.17
Assets	0.30	0.03	0.27
Working capital	2.22	0.22	2.00
Total	3.82	0.48	3.44

# MEANS OF FINANCE

PARTICULARS	AMOUNT
Own Contribution	0.38
Bank Loan	1.44
Working capital Limit	2.00
Total	3.82

# COMPUTATION OF PRODUCTION OF Paper Lamination

#### Items to be Manufactured

Paper Lamination

machine capacity per day 500 KG machine capacity per annum 120000 KG

Production of Paper Lamination					
Production Capacity Laminated paper					
1st year	50%	60,000			
2nd year	55%	66,000			
3rd year	60%	72,000			
4th year	65%	78,000			
5th year	70%	84,000			

Production of Paper Lamination					
Production Capacity Laminated paper					
1st year	50%	60,000			
2nd year	55%	66,000			
3rd year	60%	72,000			
4th year	65%	78,000			
5th year	70%	84,000			

COMPUTATION OF SALE					
Particulars	1st year	2nd year	3rd year	4th year	5th year
Op Stock	-	5,000	5,500	6,000	6,500
Production	60,000	66,000	72,000	78,000	84,000
Less : Closing Stock	5,000	5,500	6,000	6,500	7,000
Net Sale	55,000	65,500	71,500	77,500	83,500
sale price per KG	52.00	52.50	53.00	53.50	54.00
Sales (in Lacs)	28.60	34.39	37.90	41.46	45.09

BREAK UP OF LABOUR CHARGE	<u>s</u>		
Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled	14000	1	14000
Unskilled	12000	2	24000
Total Salary Per Month			38000
Total Annual Labour Charges	(in Lacs)		4.56

Utility Charges at 100% capacity (per month)				
Particulars	value	Description		
Power connection required	3	KWH		
consumption per day	24	units		
Consumption per month	480	units		
Rate per Unit	7	Rs.		
power Bill per month	3360	Rs.		

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Capacity Utilisation %	50%	55%	60%	65%	70%
SALES					
Gross Sale					
Laminated paper	28.60	34.39	37.90	41.46	45.09
Total	28.60	34.39	37.90	41.46	45.09
COST OF SALES					
Raw Mateiral Consumed	21.60	24.09	26.64	29.25	31.92
Elecricity Expenses	0.40	0.44	0.49	0.54	0.59
Depriciation	0.22	0.19	0.16	0.14	0.12
Consumables	0.29	0.34	0.38	0.41	0.45
Repair & maintennace	0.57	0.69	0.76	0.83	0.90
other direct expenses	0.57	0.24	0.27	0.29	0.32
Labour	4.56	5.02	5.52	6.07	6.68
Cost of Production	28.22	31.01	34.21	37.53	40.98
Add: Opening Stock /WIP	-	2.35	2.58	2.85	3.13
Less: Closing Stock /WIP	2.35	2.58	2.85	3.13	3.41
Cost of Sales	25.87	30.78	33.95	37.25	40.69
GROSS PROFIT	2.73	3.61	3.95	4.21	4.40
Interest on Term Loan	0.14	0.13	0.11	0.08	0.01
Interest on working Capital	0.22	0.22	0.22	0.22	0.22
Rent	0.48	0.53	0.58	0.64	0.70
Selling & adm Exp	0.57	0.69	0.76	0.83	0.90

TOTAL	1.41	1.57	1.67	1.77	1.83
NET PROFIT	1.32	2.04	2.28	2.44	2.57
Taxation					
PROFIT (After Tax)	1.32	2.04	2.28	2.44	2.57

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PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Liabilities					
Capital					
opening balance		1.40	2.24	2.77	3.21
Add:- Own Capital	0.38				
Add:- Retained Profit	1.32	2.04	2.28	2.44	2.57
Less:- Drawings	0.30	1.20	1.75	2.00	2.20
Closing Blance	1.40	2.24	2.77	3.21	3.58
Subsidy Reserve	0.40	0.40	0.40	-	-
Term Loan	1.32	1.08	0.84	0.20	-
Working Capital Limit	2.00	2.00	2.00	2.00	2.00
Sundry Creditors	0.90	1.00	1.11	1.83	1.86
Provisions & Other Liab	0.30	0.40	0.55	0.66	0.83
TOTAL:	6.32	7.12	7.67	7.90	8.27
Assets					
Fixed Assets (Gross)	1.60	1.60	1.60	1.60	1.60
Gross Dep.	0.22	0.42	0.58	0.72	0.84
Net Fixed Assets	1.37	1.18	1.02	0.87	0.75
FD of Subsidy	0.40	0.40	0.40		
<b>Current Assets</b>					
Sundry Debtors	0.60	0.86	1.11	1.21	1.32
Stock in Hand	2.71	2.99	3.30	3.86	4.21
Cash and Bank	1.24	1.69	1.85	1.96	1.98
TOTAL:	6.32	7.12	7.67	7.90	8.27

PROJECTED CASH FLOW STAT	<u>EMENT</u>				
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
SOURCES OF FUND					
Own Margin	0.38				
Net Profit	1.32	2.04	2.28	2.44	2.57
Depriciation & Exp. W/off	0.22	0.19	0.16	0.14	0.12
Increase in Cash Credit	2.00	-	-	-	-
Increase In Term Loan	1.44	-	-	-	-
Increase in Creditors	0.90	0.10	0.11	0.72	0.03
Increase in Provisions & Oth lib	0.30	0.10	0.15	0.11	0.17
increase in subsidy	0.40				
TOTAL:	6.96	2.43	2.70	3.41	2.89
APPLICATION OF FUND					
Increase in Fixed Assets	1.60				
Increase in Stock	2.71	0.27	0.31	0.56	0.35
Increase in Debtors	0.60	0.26	0.25	0.10	0.11
Repayment of Term Loan	0.12	0.24	0.24	0.64	0.20
Increase in FD	0.40	-	-		
Drawings	0.30	1.20	1.75	2.00	2.20
Taxation	-	-	-	-	-
TOTAL:	5.73	1.98	2.54	3.31	2.86
Opening Cash & Bank Balance	-	1.24	1.69	1.85	1.96
Add : Surplus	1.24	0.46	0.16	0.10	0.03
Closing Cash & Bank Balance	1.24	1.69	1.85	1.96	1.98

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Finished Goods					
	2.35	2.58	2.85	3.13	3.41
Raw Material	<u>                                     </u>				
	0.36	0.40	0.44	0.73	0.80
Closing Stock	2.71	2.99	3.30	3.86	4.21

Particulars	Amount	Own	Margin	Bank Fina	nce
Finished Goods & Raw Material	2.71				
Less : Creditors	0.90				
Paid stock	1.81	10%	0.18	90%	1.63
Sundry Debtors	0.60	10%	0.06	90%	0.54
	2.41		0.24		2.17

2nd Method		
PARTICULARS	1st year	2nd year
Total Current Assets	4.55	5.54
Other Current Liabilities	1.20	1.40
Working Capital Gap	3.35	4.14
Min Working Capital		
25% of WCG	0.84	1.03
Actual NWC	1.35	2.14
item III - IV	2.51	3.10
item III - V	2.00	2.00
MPBF (Lower of VI & VII)	2.00	2.00

3rd Method		
PARTICULARS	1st year	2nd year
Total Current Assets	4.55	5.54
Other Current Liabilities	1.20	1.40
Working Capital Gap	3.35	4.14
Min Working Capital		
25% of Current Assets	1.14	1.39
Actual NWC	1.35	2.14
item III - IV	2.21	2.75
item III - V	2.00	2.00
MPBF (Lower of VI & VII)	2.00	2.00

#### **COMPUTATION OF DEPRECIATION**

Description	Plant & Machinery	Furniture	TOTAL	
Rate of Depreciation	15.00%	10.00%		
Opening Balance	-	-	-	
Addition	1.30	0.30	1.60	
Total	1.30	0.30	1.60	
Less : Depreciation	0.19	0.03	0.22	
WDV at end of Year	1.10	0.27	1.37	
Additions During The Year	-	-	-	
Total	1.10	0.27	1.37	
Less : Depreciation	0.17	0.03	0.19	
WDV at end of Year	0.94	0.24	1.18	
Additions During The Year	-	-	-	
Total	0.94	0.24	1.18	
Less : Depreciation	0.14	0.02	0.16	
WDV at end of Year	0.80	0.22	1.02	
Additions During The Year	-	-	-	
Total	0.80	0.22	1.02	
Less : Depreciation	0.12	0.02	0.14	
WDV at end of Year	0.68	0.20	0.87	
Additions During The Year	-	-	-	
Total	0.68	0.20	0.87	
Less : Depreciation	0.10	0.02	0.12	
WDV at end of Year	0.58	0.18	0.75	
S	-	-	-	
Total	0.58	0.18	0.75	

Less : Depreciation	0.09	0.02	0.10
WDV at end of Year	0.49	0.16	0.65
Less : Depreciation	0.07	0.02	0.09
WDV at end of Year	0.42	0.14	0.56
Less : Depreciation	0.06	0.01	0.08
WDV at end of Year	0.35	0.13	0.48

	REPAYMENT SCHEDULE OF TERM LOAN							
						Interest	11.00%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Closing Balance	
ist	Opening Balance							
	1st month	-	1.44	1.44	-	-	1.44	
	2nd month	1.44	-	1.44	0.01	-	1.44	
	3rd month	1.44	-	1.44	0.01	-	1.44	
	4th month	1.44	-	1.44	0.01		1.44	
	5th month	1.44	-	1.44	0.01		1.44	
	6th month	1.44	-	1.44	0.01		1.44	
	7th month	1.44	-	1.44	0.01	0.020	1.42	
	8th month	1.42	-	1.42	0.01	0.020	1.40	
	9th month	1.40	-	1.40	0.01	0.020	1.38	
	10th month	1.38	-	1.38	0.01	0.020	1.36	
	11th month	1.36	-	1.36	0.01	0.020	1.34	
	12th month	1.34	-	1.34	0.01	0.020	1.32	
					0.14	0.120		
2nd	Opening Balance							
	1st month	1.32	-	1.32	0.01	0.020	1.30	
	2nd month	1.30	-	1.30	0.01	0.020	1.28	
	3rd month	1.28	-	1.28	0.01	0.020	1.26	
	4th month	1.26	-	1.26	0.01	0.020	1.24	
	5th month	1.24	-	1.24	0.01	0.020	1.22	
	6th month	1.22	-	1.22	0.01	0.020	1.20	
	7th month	1.20	-	1.20	0.01	0.020	1.18	
	8th month	1.18	-	1.18	0.01	0.020	1.16	
	9th month	1.16	-	1.16	0.01	0.020	1.14	
	10th month	1.14	-	1.14	0.01	0.020	1.12	
	11th month	1.12	-	1.12	0.01	0.020	1.10	
	12th month	1.10	-	1.10	0.01	0.020	1.08	

					0.13	0.240	
3rd	Opening Balance						
	1st month	1.08	_	1.08	0.01	0.020	1.06
	2nd month	1.06	_	1.06	0.01	0.020	1.04
	3rd month	1.04	-	1.04	0.01	0.020	1.02
	4th month	1.02	-	1.02	0.01	0.020	1.00
	5th month	1.00	-	1.00	0.01	0.020	0.98
	6th month	0.98	-	0.98	0.01	0.020	0.96
	7th month	0.96	-	0.96	0.01	0.020	0.94
	8th month	0.94	-	0.94	0.01	0.020	0.92
	9th month	0.92	-	0.92	0.01	0.020	0.90
	10th month	0.90	-	0.90	0.01	0.020	0.88
	11th month	0.88	-	0.88	0.01	0.020	0.86
	12th month	0.86	-	0.86	0.01	0.020	0.84
4th	Opening Balance				0.11	0.240	
	opening Janames						
	1st month	0.84	-	0.84	0.01	0.020	0.82
	2nd month	0.82	-	0.82	0.01	0.020	0.80
	3rd month	0.80	-	0.80	0.01	0.020	0.78
	4th month	0.78	-	0.78	0.01	0.020	0.76
	5th month	0.76	-	0.76	0.01	0.020	0.74
	6th month	0.74	-	0.74	0.01	0.020	0.72
	7th month	0.72	-	0.72	0.01	0.020	0.70
	8th month	0.70	-	0.70	0.01	0.020	0.68
	9th month	0.68	-	0.68	0.01	0.020	0.66
	10th month	0.66	-	0.66	0.01	0.020	0.64
	11th month 12th month(Subsidy	0.64	-	0.64	0.01	0.020	0.62
	adjusted)	0.62	-	0.62	0.01	0.420	0.20
5th	Opening Balance				0.08	0.640	
	1st month	0.20	-	0.20	0.00	0.020	0.18

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2nd month	0.18	-	0.18	0.00	0.020	0.16
3rd month	0.16	-	0.16	0.00	0.020	0.14
4th month	0.14	-	0.14	0.00	0.020	0.12
5th month	0.12	-	0.12	0.00	0.020	0.10
6th month	0.10	-	0.10	0.00	0.020	0.08
7th month	0.08	-	0.08	0.00	0.020	0.06
8th month	0.06	-	0.06	0.00	0.020	0.04
9th month	0.04	-	0.04	0.00	0.020	0.02
10th month	0.02	-	0.02	0.00	0.020	0.00
				0.01	0.20	
DOOR TO DOOR	58	MONTHS				
MORATORIUM PERIOD	6	MONTHS				
REPAYMENT PERIOD	52	MONTHS				

# **Supplier Details:**

S L Machinery	Address:			
	Plot No. 930, Tyre Wall Gali,			
	Mundka, Delhi.			



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