

PROJECT REPORT

Of

PAPER BAG

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Paper Bag manufacturing unit**.

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.]

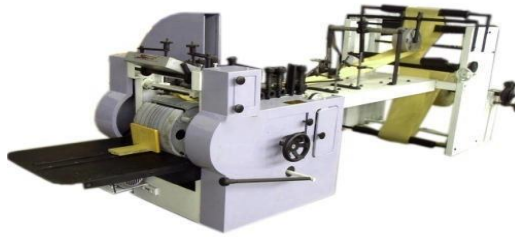


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PAPER BAG



INTRODUCTION

Paper bag is a bag made of paper, usually craft paper. Paper bags are commonly used as shopping bags, packaging, and snacks.

Paper bag is the new fad these days. We can see men and women carrying paper bags from almost everywhere. They bring it in schools, malls, offices and grocery stores.

This trend might have been developed because of the clothing sector. Famous clothes store design their paper bags with their own company or brand logo to attract customers. The people holding these particular bags get recognition because it gives an idea that they own a classy product. Printing company name or logo on paper bags serve as a form of promotion or marketing strategy. Also, many people prefer using paper bags because they are easy to carry, neat and can hold a lot of items.

Uses of Paper Bag

- For General purpose
- Industries to pack their semi-finished goods
- Jewellery packaging
- Paper bags for medical use
- Party bags
- Shopping bags
- To carry food items

Importance of Paper Bag

Paper bags are gaining importance as these bags are 100% reusable, recyclable and biodegradable and at the same time environment friendly and pose less threat to wildlife. It requires less energy for paper bags to be recycled than plastic bags. Paper bags have come a long way since their beginnings in the mid-eighteenth century when some paper bag manufacturers started developing paper bags that are harder and long lasting.

- 1.** Paper bags are environment friendly and can be recycled on the other hand Plastic bags cause environmental damage such as increase the level of air pollution. Plastic bags not only have adverse effects on our natural habitats but leads to death of many animals.
- 2.** Corporate are nowadays using paper bags for promotions, seminars, product packaging, and branding purposes as they are competitively priced.
- 3.** You can also buy them at a very cheap price particularly if they are bought wholesale.
- 4.** Possessing a paper bag is practical and you can use them to bring your groceries and the premium quality paper bags can be used as paper gift bags.
- 5.** Most people nowadays prefer using paper bags because they are easy to carry, neat and can hold lot of items. It adds to your status symbol as they can be embossed and grained to enhance the look.
- 6.** Paper bags are usually used extensively in malls and exhibitions for delivering over the counter products as research shows that paper bags contain at least 35% recycled material.

Formulation

Paper Bags are formulated using batch or continuous process of paper roll making process. In this process a roll of 60 kg is loaded on the machine in an hour for the production of paper bag.

Maximum Capacity of the machine is 60 kg per hour.

Varieties of Paper Bag

Paper bags are available in the market in many varieties.

For example:

Paper shopping bags, brown paper bags, grocery bags, paper bread bags and other light duty bags. A variety of constructions and designs are also available. Many are printed with the names of stores and brands

Types of paper bag:

Laminated, Twisted, flat tap etc.

Description of Paper Bag Machine

Paper Bag Machines are used to produce Paper bag from the raw material. With the help of this machine the work of cutting, printing, sticking completes in a very short span. A controller is used to monitor & regulate the speed while operating the machine.

Paper Bag Current Market Analysis

Paper bags have several benefits including durability, eco-friendly nature and convenience which lead to increase in its market demand. The global paper bags market witnessed slow growth during the 2012-2016 timeline; however, it is projected to grow at a higher pace to register a moderate CAGR of 4.4% throughout the period of forecast. In 2017, the global market for paper bags is valued at around US\$ 4500 Million and is estimated to touch a value of approximately US\$ 7 Billion by the end of the year of assessment. Factors like strong and growing retail sector in developed regions, rising preference for paper bags across regions and increasing penetration of retail outlets in emerging economies are contributing to the growth of the global paper bags market.

The retail segment in the end use category is expected to largely contribute to the growth of the global market for paper bags. This segment is projected to grow at a value CAGR of 4.3% throughout the period of forecast. In 2017, the retail segment reflected a market share of 54.5%.

Paper Bag Manufacturing Process

Paper roll are fed to the without colour printing machine with attachment for the manufacturing of paper Bag wherein, these are cut, folded & stitched as per the size already adjusted accordingly through the controller into the machine.

Types of Machinery:

Scale	type	Cost
Large scale	With Two Colour Flexo Printing facility	850000
	Without Colour Flexo Printing facility	550000
Medium scale	With Two Colour Flexo Printing facility	680000
	Without Colour Flexo Printing facility	480000
Small Scale	With Two Colour Flexo Printing facility	650000
	Without Colour Flexo Printing facility	425000

*Cost of the machine is exclusive of GST.

*Machinery selected for financial project is Large scale without colour flexo printing facility.

Land & Building required:

Land required 450-500 Square Feet (approx.)

Approximate rent for the same is 10000 per Month

Labour Requirement:

2-3 Manpower are required for the Paper Bag unit.

Includes:

1 skilled Labour

1-2 Unskilled Labour

Break Even Point:

Maximum production per annum = 1,44,000 KG or 1,80,00,000 bags

Break-even point of the machine = 55000 KG paper Bag

Company should operate at minimum 38% of Production capacity to cover its total costs (variable + Fixed)

Raw Material Requirement of Paper Bag

Raw material required for production of paper bag is craft sheet, brown sheet roll etc.

Cost of Raw Material (per Kg) = Rs. 25-35

Paper Bag license & registration

For Company:

- Obtain the GST registration.
- Obtain Udyog Aadhar.
- Fire/ Pollution Registration as required.
- Choice of a Brand Name of the product and secure the name with Trademark if required.

Implementation Schedule

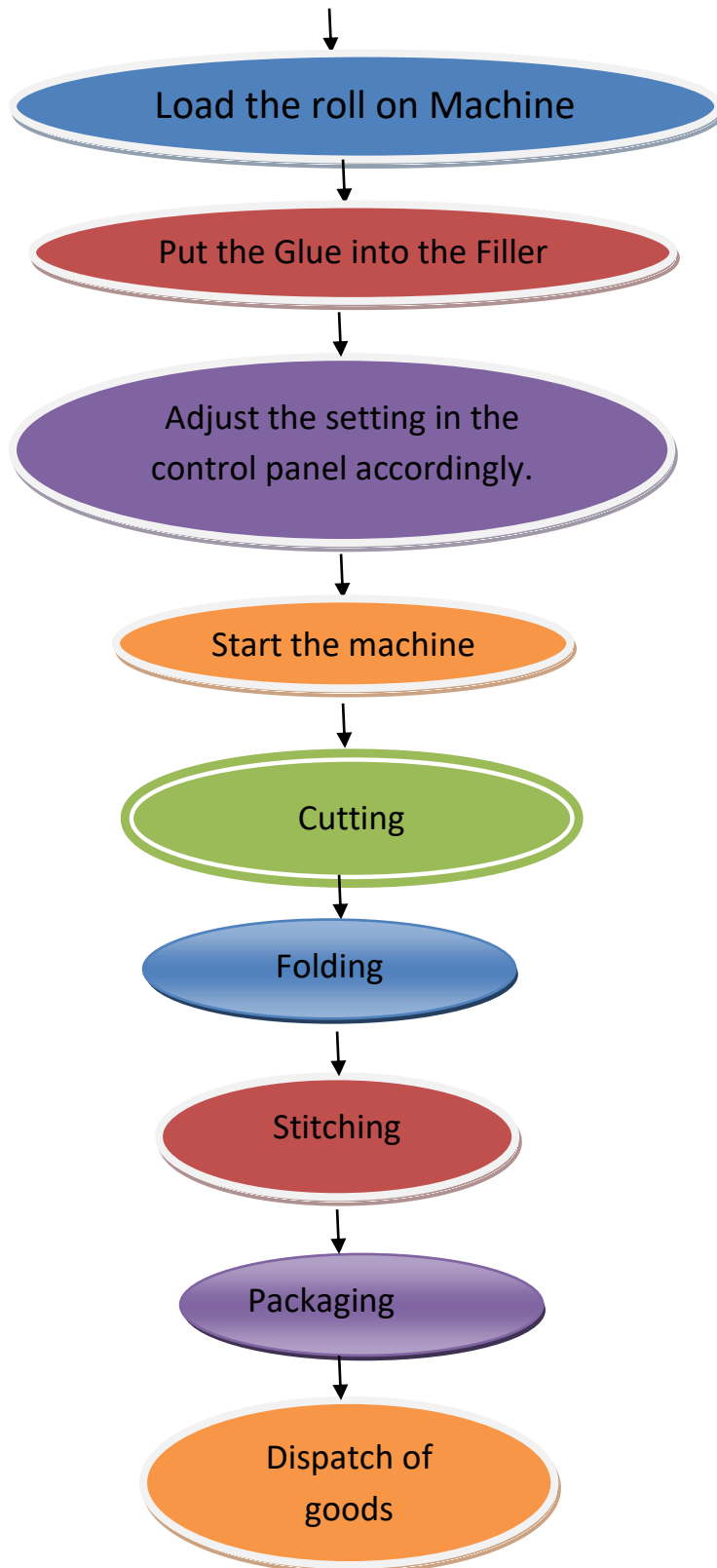
S.N.	Activity	Time Required (in Months)
1	Acquisition Of premises	1
2	Construction (if Applicable)	1- 2 Months
3	Procurement & installation of Plant & Machinery	1
4	Arrangement of Finance	1
5	Requirement of required Manpower	1
	Total time Required (some activities shall run concurrently)	2-3 Months

Conclusion:

After completion of manufacturing process, product is ready to sell in the market. Paper Bags are used for daily routine activities. This machine can be installed with low investment & one can earn a good Margin of profit by doing this business. Entrepreneur can choose paper bags with special properties that will seal the freshness and give an aesthetic look to their brand as offset and screen printing is possible.

Technical Process Flow Chart

Paper Bag manufacturing process



Project Economics

FINANCIAL ASSISTANCE REQUIRED

Term Loan of Rs.5.17 Lacs and Working Capital limit of Rs. 6.00 Lacs

<u>COST OF PROJECT</u>	PARTICULARS	AMOUNT	AMOUNT	AMOUNT
	Land			
	Building Civil Work			
	Plant & Machinery	6.49	1.62	4.87
	Furniture & Fixtures and Other Assets	0.40	0.10	0.30
	Margin for Working Capital	8.17	2.17	6.00
	Total	15.06	3.89	11.17

<u>MEANS OF FINANCE</u>	PARTICULARS	AMOUNT
	Own Contribution	3.89
	Bank Loan	5.17
	Working capital Limit	6.00
	Total	15.06

COMPUTATION OF PRODUCTION OF PAPER BAG**Items to be Manufactured**

Paper Bag

Machine Capacity	60	kg per hour
Paper roll required per day	480	KG
Raw Material Per Annum	144000	KG
Paper bag per kg	150	bags
paper bag per hour	9000	bags
paper bag per day	72000	bags
paper bag per annum	21600000	bags

Production of raw material

Production	Capacity	KG
1st year	75%	108,000
2nd year	78%	112,320
3rd year	80%	115,200
4th year	83%	119,520
5th year	86%	123,840
6th year	90%	129,600

CALULATION OF CONSUMPTION OF RAW MATERIAL

Item Name	At Capacity	Quantity of Raw Material (kg)
Raw Material	100%	144,000

Paper roll			
Raw Material Consumed	Capacity utilization	Rate per KG	Amount in Lacs
1st year	75%	30.00	32.40
2nd year	78%	31.50	35.38
3rd year	80%	33.08	38.10
4th year	83%	34.73	41.51
5th year	86%	36.47	45.16
6th year	90%	38.29	49.62

Consumables (glue etc.)			
Raw Material Consumed	Capacity utilization	Cost on per KG paper	Amount in Lacs
1st year	75%	3.00	3.24
2nd year	78%	3.15	3.54
3rd year	80%	3.31	3.81
4th year	83%	3.47	4.15
5th year	86%	3.65	4.52
6th year	90%	3.83	4.96

<u>COMPUTATION OF SALE</u>						
Particulars	1st year	2nd year	3rd year	4th year	5th year	6th year
Op Stock	-	9,000	9,360	9,600	9,960	10,320
Production	108,000	112,320	115,200	119,520	123,840	129,600
Less : Closing Stock	9,000	9,360	9,600	9,960	10,320	10,800
Net Sale	99,000	111,960	114,960	119,160	123,480	129,120
Sale price per KG	44.00	46.20	48.51	50.94	53.48	56.16
sale value	43.56	51.73	55.77	60.69	66.04	72.51

BREAK UP OF LABOUR CHARGES

Particulars	Wages Per Month	No of Employees	Total Salary
skilled	12000	1	12000
unskilled	9000	2	18000
Total Salary Per Month			30,000
Total Annual Labour Charges	(in Lacs)		3.60

BREAK UP STAFF CHARGES

Particulars	Wages Per Month	No of Employees	Total Salary
helper	6000	1	6000
Total Salary Per Month			6,000
Total Annual Labour Charges	(in Lacs)		0.72

Utility Charges (per month)

Particulars	value	Description
Power connection required	3	KWH
consumption per day	24	units
Consumption per month	600	units
Rate per Unit	10	Rs.
power Bill per month	6000	Rs.

PROJECTED PROFITABILITY STATEMENT

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	6th year
Capacity Utilization %	75%	78%	80%	83%	86%	90%
<u>SALES</u>						
Gross Sale						
Paper bag	43.56	51.73	55.77	60.69	66.04	72.51
Total	43.56	51.73	55.77	60.69	66.04	72.51
COST OF SALES						
Raw Material Consumed	32.40	35.38	38.10	41.51	45.16	49.62
Electricity Expenses	0.72	0.79	0.87	0.96	1.05	1.16
Repair & Maintenance	0.22	0.26	0.28	0.30	0.33	0.36
Labour & Wages	3.60	3.96	4.36	4.79	5.27	5.27
Depreciation	1.01	0.86	0.74	0.63	0.53	0.46
Consumables & others	3.24	3.54	3.81	4.15	4.52	4.96
Cost of Production	41.19	44.79	48.15	52.34	56.86	61.83
Add: Opening Stock /WIP	-	3.43	3.73	4.01	4.36	4.74
Less: Closing Stock /WIP	3.43	3.73	4.01	4.36	4.74	5.15
Cost of Sales	37.76	44.49	47.87	51.99	56.49	61.42
GROSS PROFIT	5.80	7.23	7.89	8.70	9.55	11.09
Gross Profit %	13%	14%	14%	14%	14%	15%
staff	0.72	0.79	0.87	0.96	1.05	1.16
Interest on Term Loan	0.51	0.44	0.31	0.18	0.05	-
Interest on working Capital	0.66	0.66	0.66	0.66	0.66	0.66
rent	1.20	1.26	1.32	1.39	1.46	1.53
Selling & Adm Expenses Exp.	0.44	0.52	0.56	0.61	0.66	0.73
TOTAL	3.52	3.67	3.72	3.79	3.88	4.08
NET PROFIT	2.28	3.56	4.17	4.91	5.67	7.01
Taxation	0.57	0.89	1.04	1.23	1.42	1.75
PROFIT (After Tax)	1.71	2.67	3.13	3.68	4.25	5.26

PROJECTED BALANCE SHEET

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	6th year
<u>Liabilities</u>						
Capital						
<i>Opening Balance</i>	-	4.60	6.17	7.80	9.29	10.94
<i>Add:- Addition</i>	3.89	-	-	-	-	-
<i>Add:-Profit During the Year</i>	1.71	2.67	3.13	3.68	4.25	5.26
<i>Less:- Drawings</i>	1.00	1.10	1.50	2.20	2.60	4.50
Closing Balance	4.60	6.17	7.80	9.29	10.94	11.70
Term Loan	4.57	3.37	2.17	0.97	-	-
Working Capital Limit	6.00	6.00	6.00	6.00	6.00	6.00
Sundry Creditors	1.08	1.18	1.27	1.38	1.51	1.65
Provisions & Other Liab	0.30	0.33	0.36	0.40	0.44	0.48
TOTAL :	16.55	17.05	17.60	18.04	18.88	19.84
<u>Assets</u>						
Fixed Assets (Gross)	6.89	6.89	6.89	6.89	6.89	6.89
Gross Dep.	1.01	1.88	2.61	3.24	3.77	4.23
Net Fixed Assets	5.88	5.01	4.28	3.65	3.12	2.66
Current Assets						
Sundry Debtors	3.63	4.31	4.65	5.06	5.50	6.04
Stock in Hand	6.13	6.68	7.19	7.82	8.50	9.29
Cash and Bank	0.91	1.04	1.49	1.50	1.76	1.84
TOTAL :	16.55	17.05	17.60	18.04	18.88	19.84

PROJECTED CASH FLOW STATEMENT

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	6th year
<u>SOURCES OF FUND</u>						
Own Margin	3.89					
Net Profit	2.28	3.56	4.17	4.91	5.67	7.01
Depreciation & Exp. W/off	1.01	0.86	0.74	0.63	0.53	0.46
Increase in Cash Credit	6.00	-	-	-	-	-
Increase In Term Loan	5.17	-	-	-	-	-
Increase in Creditors	1.08	0.10	0.09	0.11	0.12	0.15
Increase in Provisions & Oth lib	0.30	0.03	0.03	0.04	0.04	0.04
TOTAL :	19.73	4.55	5.03	5.69	6.37	7.66
<u>APPLICATION OF FUND</u>						
Increase in Fixed Assets	6.89	-	-	-	-	-
Increase in Stock	6.13	0.55	0.51	0.63	0.68	0.79
Increase in Debtors	3.63	0.68	0.34	0.41	0.45	0.54
Repayment of Term Loan	0.60	1.20	1.20	1.20	0.97	-
Taxation	0.57	0.89	1.04	1.23	1.42	1.75
Drawings	1.00	1.10	1.50	2.20	2.60	4.50
TOTAL :	18.82	4.42	4.59	5.67	6.11	7.58
Opening Cash & Bank Balance	-	0.91	1.04	1.49	1.50	1.76
Add : Surplus	0.91	0.13	0.44	0.02	0.25	0.08
Closing Cash & Bank Balance	0.91	1.04	1.49	1.50	1.76	1.84

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL						
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year	6th year
Finished Goods						
(1 months requirement)	3.43	3.73	4.01	4.36	4.74	5.15
Raw Material						
(1 months requirement)	2.70	2.95	3.18	3.46	3.76	4.14
Closing Stock	6.13	6.68	7.19	7.82	8.50	9.29

COMPUTATION OF WORKING CAPITAL REQUIREMENT					
TRADITIONAL METHOD					
Particulars	Amount	Own Margin		Bank Finance	
Finished Goods & Raw Material Stock	6.13				
Less : Creditors	1.08				
Paid stock	5.05	25%	1.26	75%	3.79
Sundry Debtors	3.63	25%	0.91	75%	2.72
	8.68		2.17		6.51
WORKING CAPITAL LIMIT DEMAND (from Bank)					
6.00					

2nd Method		
PARTICULARS	1st year	2nd year
Total Current Assets	10.47	11.53
Other Current Liabilities	1.38	1.51
Working Capital Gap	9.09	10.02
Min Working Capital		
25% of WCG	2.27	2.51
Actual NWC	3.09	4.02
item III - IV	6.82	7.52
item III - V	6.00	6.00
MPBF (Lower of VI & VII)	6.00	6.00

3rd Method		
PARTICULARS	1st year	2nd year
Total Current Assets	10.47	11.53
Other Current Liabilities	1.38	1.51
Working Capital Gap	9.09	10.02
Min Working Capital		
25% of Current Assets	2.62	2.88
Actual NWC	3.09	4.02
item III - IV	6.47	7.14
item III - V	6.00	6.00
MPBF (Lower of VI & VII)	6.00	6.00

COMPUTATION OF DEPRECIATION

Description	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation	15.00%	10.00%	
Opening Balance	-	-	-
Addition	6.49	0.40	6.89
Total	6.49	0.40	6.89
Less : Depreciation	0.97	0.04	1.01
WDV at end of Year	5.52	0.36	5.88
Additions During The Year	-	-	-
Total	5.52	0.36	5.88
Less : Depreciation	0.83	0.04	0.86
WDV at end of Year	4.69	0.32	5.01
Additions During The Year	-	-	-
Total	4.69	0.32	5.01
Less : Depreciation	0.70	0.03	0.74
WDV at end of Year	3.99	0.29	4.28
Additions During The Year	-	-	-
Total	3.99	0.29	4.28
Less : Depreciation	0.60	0.03	0.63
WDV at end of Year	3.39	0.26	3.65
Additions During The Year	-	-	-
Total	3.39	0.26	3.65
Less : Depreciation	0.51	0.03	0.53
WDV at end of Year	2.88	0.24	3.12
Additions During The Year	-	-	-
Total	2.88	0.24	3.12
Less : Depreciation	0.43	0.02	0.46
WDV at end of Year	2.45	0.21	2.66
Less : Depreciation	0.37	0.02	0.39
WDV at end of Year	2.08	0.19	2.27
Less : Depreciation	0.31	0.02	0.33
WDV at end of Year	1.77	0.17	1.94

CALCULATION OF D.S.C.R

PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
CASH ACCRUALS	2.72	3.53	3.86	4.31	4.79
Interest on Term Loan	0.51	0.44	0.31	0.18	0.05
Total	3.23	3.98	4.17	4.49	4.84
<u>REPAYMENT</u>					
Installment of Term Loan	0.60	1.20	1.20	1.20	0.97
Interest on Term Loan	0.51	0.44	0.31	0.18	0.05
Total	1.11	1.64	1.51	1.38	1.02
DEBT SERVICE COVERAGE RATIO	2.92	2.42	2.76	3.26	4.75
AVERAGE D.S.C.R.	3.22				

REPAYMENT SCHEDULE OF TERM LOAN

Interest 11.00%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	Closing Balance
1st	Opening Balance						
	1st month	-	5.17	5.17	-	-	5.17
	2nd month	5.17	-	5.17	0.05	-	5.17
	3rd month	5.17	-	5.17	0.05	-	5.17
	4th month	5.17	-	5.17	0.05	-	5.17
	5th month	5.17	-	5.17	0.05	-	5.17
	6th month	5.17	-	5.17	0.05	-	5.17
	7th month	5.17	-	5.17	0.05	0.10	5.07
	8th month	5.07	-	5.07	0.05	0.10	4.97
	9th month	4.97	-	4.97	0.05	0.10	4.87
	10th month	4.87	-	4.87	0.04	0.10	4.77
	11th month	4.77	-	4.77	0.04	0.10	4.67
	12th month	4.67	-	4.67	0.04	0.10	4.57
					0.51	0.60	
2nd	Opening Balance						
	1st month	4.57	-	4.57	0.04	0.10	4.47
	2nd month	4.47	-	4.47	0.04	0.10	4.37
	3rd month	4.37	-	4.37	0.04	0.10	4.27
	4th month	4.27	-	4.27	0.04	0.10	4.17
	5th month	4.17	-	4.17	0.04	0.10	4.07
	6th month	4.07	-	4.07	0.04	0.10	3.97
	7th month	3.97	-	3.97	0.04	0.10	3.87
	8th month	3.87	-	3.87	0.04	0.10	3.77
	9th month	3.77	-	3.77	0.03	0.10	3.67
	10th month	3.67	-	3.67	0.03	0.10	3.57
	11th month	3.57	-	3.57	0.03	0.10	3.47
	12th month	3.47	-	3.47	0.03	0.10	3.37
					0.44	1.20	
3rd	Opening Balance						
	1st month	3.37	-	3.37	0.03	0.10	3.27
	2nd month	3.27	-	3.27	0.03	0.10	3.17
	3rd month	3.17	-	3.17	0.03	0.10	3.07
	4th month	3.07	-	3.07	0.03	0.10	2.97
	5th month	2.97	-	2.97	0.03	0.10	2.87
	6th month	2.87	-	2.87	0.03	0.10	2.77
	7th month	2.77	-	2.77	0.03	0.10	2.67
	8th month	2.67	-	2.67	0.02	0.10	2.57
	9th month	2.57	-	2.57	0.02	0.10	2.47
	10th month	2.47	-	2.47	0.02	0.10	2.37
	11th month	2.37	-	2.37	0.02	0.10	2.27
	12th month	2.27	-	2.27	0.02	0.10	2.17
					0.31	1.20	
4th	Opening Balance						

1st month	2.17	-	2.17	0.02	0.10	2.07
2nd month	2.07	-	2.07	0.02	0.10	1.97
3rd month	1.97	-	1.97	0.02	0.10	1.87
4th month	1.87	-	1.87	0.02	0.10	1.77
5th month	1.77	-	1.77	0.02	0.10	1.67
6th month	1.67	-	1.67	0.02	0.10	1.57
7th month	1.57	-	1.57	0.01	0.10	1.47
8th month	1.47	-	1.47	0.01	0.10	1.37
9th month	1.37	-	1.37	0.01	0.10	1.27
10th month	1.27	-	1.27	0.01	0.10	1.17
11th month	1.17	-	1.17	0.01	0.10	1.07
12th month	1.07	-	1.07	0.01	0.10	0.97

0.18 1.20

5th Opening Balance

1st month	0.97	-	0.97	0.01	0.10	0.87
2nd month	0.87	-	0.87	0.01	0.10	0.77
3rd month	0.77	-	0.77	0.01	0.10	0.67
4th month	0.67	-	0.67	0.01	0.10	0.57
5th month	0.57	-	0.57	0.01	0.10	0.47
6th month	0.47	-	0.47	0.00	0.10	0.37
7th month	0.37	-	0.37	0.00	0.10	0.27
8th month	0.27	-	0.27	0.00	0.10	0.17
9th month	0.17	-	0.17	0.00	0.10	0.07
10th month	0.07	-	0.07	0.00	0.07	0.00

0.05 0.97

DOOR TO DOOR	58	MONTHS
MORATORIUM PERIOD	6	MONTHS
REPAYMENT PERIOD	52	MONTHS

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