



# MODEL PROJECT REPORT



## PROJECT REPORT ON CASE ROLLS

**SWAVALAMBHI BHARAT ABHIYAN**

## PROJECT AT A GLANCE

- 1 Name of the Entrepreneur : xxxxxxxxx
- 2 Constitution (legal Status) : xxxxxxxxx
- 3 Father / Spouse Name : xxxxxxxxxxxxx
- 4 Unit Address : xxxxxxxxxxxxxxxxxxxxxxxxx
- District : xxxxxxxx  
Pin: xxxxxxxx State: xxxxxxxxx  
Mobile xxxxxxxx
- 5 Product and By Product : **Case Rolls**
- 6 Name of the project / business activity proposed : **Case Rolls Manufacturing Unit**
- 7 Cost of Project : Rs.43.97 Lakhs
- 8 Means of Finance  
Term Loan Rs.33.08 Lakhs  
Own Capital Rs.4.4 Lakhs  
Working Capital Rs.6.5 Lakhs
- 9 Debt Service Coverage Ratio : 2.00
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 5-6 Months
- 12 Break Even Point : 35%
- 13 Employment : 15 Persons
- 14 Power Requirement : 20 HP
- 15 Major Raw materials : Plastic Granules(Polypropelene), 2mm SS Sheet, 2 Part PUF(Polyurethane foam) liquid, Packing material
- 16 Estimated Annual Sales Turnover (Max Utilized Capacity) : 152.79 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	36.00
Furniture & Fixtures	0.75
Working Capital	7.22
Total	<b>43.97</b>

### MEANS OF FINANCE

Particulars	Amount
Own Contribution	4.40
Term Loan	33.08
Working Capital	6.50
Total	<b>43.97</b>

# **CASE ROLL**

## **INTRODUCTION**

Hot case refers to a set of products which are used to keep the food warm for longer period. In today's busy life, hot cases are used by number of people in various places ranging from kitchen to mall. One such type of hot case is case roll.

The case roll is a food storing product used to store food while maintaining its temperature, it utilizes an insulating material to reduce the heat loss. It's a widely used product in Indian house hold as well as many hotels and restaurants.



This product is widely used for storing chapati an Indian cooked wheat food item, though it can be also used to store a wide range of dishes and food items, which needs to be kept warm and can be contained within its volume.

## **RAW MATERIAL**

1. Plastic Granules (Polypropylene)
2. 2 mm SS Sheet
3. 2 Part PUF (Polyurethane Foam) Liquid
4. Packaging Material

## **MACHINE AND EQUIPMENT**

1. Mixer
2. Injection Moulding Machine
3. PU Foam Mixing and Filling Machine
4. Sheet Metal Blanking Press
5. Deep Drawing Hydraulic Press
6. Oven
7. Various moulds for injection moulding and Puff expansion, other ancillary equipment's.

## **MANUFACTURING PROCESS**

All the raw material is procured from vendor and stored in raw material inventory as per production demand. Steel pot and plastic parts are produced simultaneously and are stored in "in-process inventory".

The Plastic parts which include base, outer wall, grip handle ring, lid top and lid base are manufactured from poly propylene. The PP granules along with various additives like stabilizers, accelerators, colour pigment etc; are feed to mixer in required quantities.

The batch obtained from mixing is feed to injection moulding machine via its Hooper and feeder arrangement, followed by which machine melts the mix to a semi-solid state utilizing its heaters. This semi-solid material is injected into mould of plastic part to be produced, followed by which the injection moulding machine utilizes its chilling unit to cool the mould and solidify the part.

The metal part which in this case is the metal pot, is drawn from Circular SS Sheet Piece in a deep drawing press, this circular piece is obtained from a blanking press which shears the required circular plate out of the metal sheet.

After all the parts are obtained the lid and bottom pot are manufactured separately, for bottom pot base is initially placed in the PUF mould in its respective position followed by which, required quantity of PUF liquid is mixed and poured in the base followed by which quickly wall and other

accessory plastic part are quickly placed and the mould is closed. The mould is feed to oven where it's maintained at required temperature ranging from 45 to 60 degree Celsius over a considerable duration of time as required for proper expanding of foam, followed by which mould is opened and case roll pot is extracted from mould.

Similarly, the a separate PUF mould is used for lid, initially lid top is placed in the PUF mould in its respective position followed by which, required quantity of PUF liquid is mixed and poured in it, followed by which bottom is quickly placed and the mould is closed. The mould is feed to oven where it's maintained at required temperature ranging from 45 to 60 degree Celsius over a considerable duration of time as required for proper expanding of foam, followed by which mould is opened and case roll lid is extracted from mould.

The completed case roll lid and pot are checked for quality manually assembled and sent for sale.

**PROJECTED BALANCE SHEET**

PARTICULARS	I	II	III	IV	V
<b><u>SOURCES OF FUND</u></b>					
<b><u>Capital Account</u></b>					
Opening Balance	-	4.23	7.76	12.49	17.85
Add: Additions	4.40	-	-	-	-
Add: Net Profit	2.83	7.53	11.73	15.36	19.01
Less: Drawings	3.00	4.00	7.00	10.00	14.00
<b>Closing Balance</b>	<b>4.23</b>	<b>7.76</b>	<b>12.49</b>	<b>17.85</b>	<b>22.86</b>
CC Limit	6.50	6.50	6.50	6.50	6.50
Term Loan	29.40	22.05	14.70	7.35	-
Sundry Creditors	0.85	0.99	1.13	1.28	1.45
<b>TOTAL :</b>	<b>40.98</b>	<b>37.29</b>	<b>34.82</b>	<b>32.98</b>	<b>30.81</b>
<b><u>APPLICATION OF FUND</u></b>					
<b>Fixed Assets ( Gross)</b>	36.75	36.75	36.75	36.75	36.75
Gross Dep.	5.48	10.13	14.09	17.47	20.33
Net Fixed Assets	31.28	26.62	22.66	19.28	16.42
<b>Current Assets</b>					
Sundry Debtors	4.35	5.18	5.94	6.75	7.64
Stock in Hand	4.04	4.51	5.10	5.74	6.44
Cash and Bank	1.32	0.99	1.13	1.21	0.31
<b>TOTAL :</b>	<b>40.98</b>	<b>37.29</b>	<b>34.82</b>	<b>32.98</b>	<b>30.81</b>
	-	-	-	-	-

<b><u>PROJECTED PROFITABILITY STATEMENT</u></b>					
<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>A) SALES</u></b>					
Gross Sale	87.00	103.64	118.74	135.09	152.79
<b>Total (A)</b>	<b>87.00</b>	<b>103.64</b>	<b>118.74</b>	<b>135.09</b>	<b>152.79</b>
<b><u>B) COST OF SALES</u></b>					
Raw Mateiral Consumed	51.20	59.10	67.72	76.99	87.07
Electricity Expenses	1.79	1.97	2.15	2.33	2.51
Repair & Maintenance	0.44	0.52	0.59	0.68	0.76
Labour & Wages	11.02	12.12	13.34	14.67	16.14
Depreciation	5.48	4.66	3.96	3.37	2.87
<b>Cost of Production</b>	<b>69.92</b>	<b>78.37</b>	<b>87.76</b>	<b>98.03</b>	<b>109.34</b>
<b>Add: Opening Stock /WIP</b>	<b>-</b>	<b>2.33</b>	<b>2.54</b>	<b>2.84</b>	<b>3.17</b>
<b>Less: Closing Stock /WIP</b>	<b>2.33</b>	<b>2.54</b>	<b>2.84</b>	<b>3.17</b>	<b>3.54</b>
Cost of Sales (B)	67.59	78.17	87.46	97.70	108.98
<b>C) GROSS PROFIT (A-B)</b>	<b>19.41</b>	<b>25.47</b>	<b>31.28</b>	<b>37.39</b>	<b>43.81</b>
	<b>22.31%</b>	<b>24.57%</b>	<b>26.35%</b>	<b>27.68%</b>	<b>28.67%</b>
D) Bank Interest (Term Loan )	3.59	2.93	2.12	1.31	0.51
ii) Interest On Working Capital	0.71	0.71	0.71	0.71	0.71
E) Salary to Staff	7.92	8.71	9.58	10.54	11.60
F) Selling & Adm Expenses Exp.	4.35	5.18	5.94	6.75	7.64
<b>TOTAL (D+E)</b>	<b>16.57</b>	<b>17.54</b>	<b>18.36</b>	<b>19.32</b>	<b>20.46</b>
H) NET PROFIT	2.83	7.93	12.93	18.07	23.36
	<b>3.3%</b>	<b>7.6%</b>	<b>10.9%</b>	<b>13.4%</b>	<b>15.3%</b>
I) Taxation	-	0.40	1.19	2.71	4.35
J) PROFIT (After Tax)	2.83	7.53	11.73	15.36	19.01

**PROJECTED CASH FLOW STATEMENT**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>SOURCES OF FUND</u></b>					
Own Contribution	4.40	-			
Net Profit	2.83	7.93	12.93	18.07	23.36
Depreciation & Exp. W/off	5.48	4.66	3.96	3.37	2.87
Increase In Cash Credit	6.50				
Increase In Term Loan	33.08	-	-	-	-
Increase in Creditors	0.85	0.13	0.14	0.15	0.17
<b>TOTAL :</b>	<b>53.13</b>	<b>12.72</b>	<b>17.03</b>	<b>21.59</b>	<b>26.39</b>
<b><u>APPLICATION OF FUND</u></b>					
Increase in Fixed Assets	36.75	-	-	-	-
Increase in Stock	4.04	0.47	0.59	0.64	0.70
Increase in Debtors	4.35	0.83	0.76	0.82	0.88
Repayment of Term Loan	3.68	7.35	7.35	7.35	7.35
Taxation	-	0.40	1.19	2.71	4.35
Drawings	3.00	4.00	7.00	10.00	14.00
<b>TOTAL :</b>	<b>51.81</b>	<b>13.05</b>	<b>16.89</b>	<b>21.52</b>	<b>27.29</b>
Opening Cash & Bank Balance	-	1.32	0.99	1.13	1.21
Add : Surplus	1.32	- 0.33	0.14	0.07	- 0.89
Closing Cash & Bank Balance	<b>1.32</b>	<b>0.99</b>	<b>1.13</b>	<b>1.21</b>	<b>0.31</b>



**COMPUTATION OF CASE ROLLS MANUFACTURING UNIT****Items to be Manufactured Case Rolls**

Manufacturing Capacity per Day		600.00	pcs
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		180,000	pcs
Year		Capacity	Case Rolls
		Utilisation	
I		50%	90,000
II		55%	99,000
III		60%	108,000
IV		65%	117,000
V		70%	126,000

**COMPUTATION OF RAW MATERIAL**

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Plastic Granules(Polypropylene)	60,000.00	kg	90.00	5,400,000.00
2mm SS Sheet	16,000.00	kg	240.00	3,840,000.00
2 Part PUF (Polyurethane Foam) Liquid	4,000.00	kg	200.00	800,000.00
Packaging Material	lumsum			200,000.00
Total	<b>76,000.00</b>			<b>10,240,000.00</b>

Total Raw material in Rs lacs at 100% Capacity 102.40  
Cost per Case Roll (In Rs) **56.89**

Raw Material Consumed	Capacity Utilisation	Rate	Amount (Rs.)
I	50%	56.89	51.20
II	55%	59.70	59.10
III	60%	62.70	67.72
IV	65%	65.80	76.99
V	70%	69.10	87.07

**COMPUTATION OF CLOSING STOCK & WORKING CAPITAL**

PARTICULARS	I	II	III	IV	V
<b><u>Finished Goods</u></b>					
(10 Days requirement)	2.33	2.54	2.84	3.17	3.54
<b><u>Raw Material</u></b>					
(10 Days requirement)	1.71	1.97	2.26	2.57	2.90
<b>Closing Stock</b>	<b>4.04</b>	<b>4.51</b>	<b>5.10</b>	<b>5.74</b>	<b>6.44</b>

**COMPUTATION OF WORKING CAPITAL REQUIREMENT**

Particulars	Amount	Margin(10%)	Net Amount
Stock in Hand	4.04		
Less:			
Sundry Creditors	0.85		
<b>Paid Stock</b>	<b>3.18</b>	<b>0.32</b>	<b>2.87</b>
Sundry Debtors	4.35	0.44	3.92
<b>Working Capital Requirement</b>			<b>6.78</b>
<b>Margin</b>			0.75
<b>MPBF</b>			<b>6.78</b>
<b>Working Capital Demand</b>			<b>6.50</b>

**BREAK UP OF LABOUR**

Particulars		Wages	No of	Total
		Per Month	Employees	Salary
Plant Operator		15,000.00	1	15,000.00
Unskilled Worker		8,500.00	6	51,000.00
Helper		5,000.00	2	10,000.00
Security Guard		7,500.00	1	7,500.00
				83,500.00
Add: 10% Fringe Benefit				8,350.00
Total Labour Cost Per Month				91,850.00
Total Labour Cost for the year ( In Rs. Lakhs)			10	11.02

**BREAK UP OF SALARY**

Particulars		Salary	No of	Total
		Per Month	Employees	Salary
Accountant cum store keeper		10,000.00	1	10,000.00
Administrative Staffs		12,500.00	4	50,000.00
Total Salary Per Month				60,000.00
Add: 10% Fringe Benefit				6,000.00
Total Salary for the month				66,000.00
Total Salary for the year ( In Rs. Lakhs)			5	7.92

**COMPUTATION OF DEPRECIATION**

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation			<b>15.00%</b>	<b>10.00%</b>	
<b>Opening Balance</b>	Own/Rented		-	-	-
Addition	-		36.00	0.75	36.75
	-		36.00	0.75	36.75
TOTAL		-	36.00	0.75	36.75
Less : Depreciation	-	-	5.40	0.08	5.48
WDV at end of Ist year	-	-	30.60	0.68	31.28
Additions During The Year	-	-	-	-	-
	-	-	30.60	0.68	31.28
Less : Depreciation	-	-	4.59	0.07	4.66
WDV at end of IIInd Year	-	-	26.01	0.61	26.62
Additions During The Year	-	-	-	-	-
	-	-	26.01	0.61	26.62
Less : Depreciation	-	-	3.90	0.06	3.96
WDV at end of IIIrd year	-	-	22.11	0.55	22.66
Additions During The Year	-	-	-	-	-
	-	-	22.11	0.55	22.66
Less : Depreciation	-	-	3.32	0.05	3.37
WDV at end of IV year	-	-	18.79	0.49	19.28
Additions During The Year	-	-	-	-	-
	-	-	18.79	0.49	19.28
Less : Depreciation	-	-	2.82	0.05	2.87
WDV at end of Vth year	-	-	15.97	0.44	16.42

**REPAYMENT SCHEDULE OF TERM LOAN**

11.0%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
I	Opening Balance						
	Ist Quarter	-	33.08	33.08	0.91	-	33.08
	IInd Quarter	33.08	-	33.08	0.91	-	33.08
	IIIrd Quarter	33.08	-	33.08	0.91	1.84	31.24
	Ivth Quarter	31.24	-	31.24	0.86	1.84	29.40
					3.59	3.68	
II	Opening Balance						
	Ist Quarter	29.40	-	29.40	0.81	1.84	27.56
	IInd Quarter	27.56	-	27.56	0.76	1.84	25.73
	IIIrd Quarter	25.73	-	25.73	0.71	1.84	23.89
	Ivth Quarter	23.89		23.89	0.66	1.84	22.05
					2.93	7.35	
III	Opening Balance						
	Ist Quarter	22.05	-	22.05	0.61	1.84	20.21
	IInd Quarter	20.21	-	20.21	0.56	1.84	18.38
	IIIrd Quarter	18.38	-	18.38	0.51	1.84	16.54
	Ivth Quarter	16.54		16.54	0.45	1.84	14.70
					2.12	7.35	
IV	Opening Balance						
	Ist Quarter	14.70	-	14.70	0.40	1.84	12.86
	IInd Quarter	12.86	-	12.86	0.35	1.84	11.03
	IIIrd Quarter	11.03	-	11.03	0.30	1.84	9.19
	Ivth Quarter	9.19		9.19	0.25	1.84	7.35
					1.31	7.35	
V	Opening Balance						
	Ist Quarter	7.35	-	7.35	0.20	1.84	5.51
	IInd Quarter	5.51	-	5.51	0.15	1.84	3.68
	IIIrd Quarter	3.68	-	3.68	0.10	1.84	1.84
	Ivth Quarter	1.84		1.84	0.05	1.84	0.00
					0.51	7.35	

Door to Door Period	60	Months
Moratorium Period	6	Months
Repayment Period	54	Months

**CALCULATION OF D.S.C.R**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>CASH ACCRUALS</u></b>	8.31	12.19	15.70	18.73	21.87
Interest on Term Loan	3.59	2.93	2.12	1.31	0.51
Total	11.90	15.12	17.82	20.04	22.38
<b><u>REPAYMENT</u></b>					
Repayment of Term Loan	3.68	7.35	7.35	7.35	7.35
Interest on Term Loan	3.59	2.93	2.12	1.31	0.51
Total	7.26	10.28	9.47	8.66	7.86
<b>DEBT SERVICE COVERAGE RATIO</b>	<b>1.64</b>	<b>1.47</b>	<b>1.88</b>	<b>2.31</b>	<b>2.85</b>
<b>AVERAGE D.S.C.R.</b>			<b>2.00</b>		

**COMPUTATION OF SALE**

Particulars	I	II	III	IV	V
Op Stock	-	3,000.00	3,300.00	3,600.00	3,900.00
Production	90,000.00	99,000.00	108,000.00	117,000.00	126,000.00
	90,000.00	102,000.00	111,300.00	120,600.00	129,900.00
Less : Closing Stock(10 Days)	3,000.00	3,300.00	3,600.00	3,900.00	4,200.00
Net Sale	87,000.00	98,700.00	107,700.00	116,700.00	125,700.00
Avg Sale Price per Case Roll	100.00	105.00	110.25	115.76	121.55
<b>Sale (in Lacs)</b>	<b>87.00</b>	<b>103.64</b>	<b>118.74</b>	<b>135.09</b>	<b>152.79</b>

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

Total Working Hour per day	Hours	8		
Electric Load Required	HP	20		
Load Factor		0.7460		
Electricity Charges	per unit	7.50		
Total Working Days		300		
<b>Electricity Charges</b>				2.69
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		<b>0.90</b>		
Total cost of Power & Fuel at 100%				3.58

Year	Capacity	Amount (in Lacs)
I	50%	1.79
II	55%	1.97
III	60%	2.15
IV	65%	2.33
V	70%	2.51