PROJECT REPORT

Of

PLASTIC EGG TRAY

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Plastic Egg Tray 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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1		CCT	AT A GLANCE		
1	Name of the Entreprenuer		XXXXXXXXX		
2	Constitution (legal Status) :		XXXXXXXXX		
3	Father / Spouse Name		xxxxxxxxxx		
4	Unit Address :		xxxxxxxxxxxxxxxxx		
			District:	xxxxxxx	
			Pin: Mobile		State: xxxxx
			Widdle	XXXXXXX	
5	Product and By Product	:	PLASTIC EGG TRAY		
6	Name of the project / business activity proposed :		PLASTIC EGG TRAY MA	NUFACTURING UNIT	
7	Cost of Project	:	Rs.17.41 Lakhs		
8	Means of Finance Term Loan		Rs.10.8 Lakhs		
	Own Capital		Rs.1.74 Lakhs		
	Working Capital		Rs.4.87 Lakhs		
9	Debt Service Coverage Ratio	:	2.73		
10	Pay Back Period	:	5	Years	
11	Project Implementation Period	:	5-6	Months	
12	Break Even Point	:	48%		
13	Employment	:	11	Persons	
14	Power Requirement	:	20.00	HP	
15	Major Raw materials	:	PVC, Pigments and Fillers		
16	Estimated Annual Sales Turnover (Max Capacity)	:	100.49	Lakhs	
17	Detailed Cost of Project & Means of Finance				
	COST OF PROJECT			(Rs. In Lakhs)	
			Particulars	Amount	
			Land Plant & Machinery	Own/Rented 11.50	
			Furniture & Fixtures	0.50	
			Working Capital	5.41	
			Total	17.41	
	MEANS OF FINANCE			1	
			Particulars	Amount	
			Own Contribution	1.74	
			Working Capital(Finance) Term Loan	10.80	
			Total	17.41	

PLASTIC EGG TRAY MANUFACTURING UNIT

Introduction:

Egg trays are tray-shaped material with a pocket used to hold and protect eggs from damage in the transportation process. Egg trays are designed primarily for the shipment of multiple numbers and varieties of eggs. The primary material used for trays fabrication is dimpled foam, but technology advancement introduces new materials such as plastics into this field. These materials allow the eggs to be easily stored. The primary use of the egg tray is for packaging and storing purposes. The egg trays are made up of plastics, which mainly include polyvinyl chloride polymers (PVC), polypropylene (PP), or sometimes polystyrene (PS).



Uses & Market Potential:

Egg trays are used to transport, carry, provide protection and keep them separate from each other. Increasing demand for nutritious food, including eggs, due to the rise in health awareness is the primary factor in escalating market growth. Eggs are a quickly cooked and healthy edible option for many populations. In India, eggs per capita consumption has risen to 68 from 30 eggs per annum. Eggs are considered a few of the primary sources of proteins, vitamins, and minerals and can provide 1/5th of the individual's daily requirement. Due to their multiple health benefits, they are consumed as breakfast in households and restaurants in several countries. The growing production of eggs for the growing consumer (APAC records) demands also leads to egg trays production load. China is a leading giant in the production of eggs worldwide, as it produced more than 300 billion eggs in 2016 along with it the price of packaging products for eggs rose by 1.62 times during 2000-2018. For example, an egg tray cost 7.42\$ in 2000. The price of the tray went up to 12.10\$ in 2018.

Product:

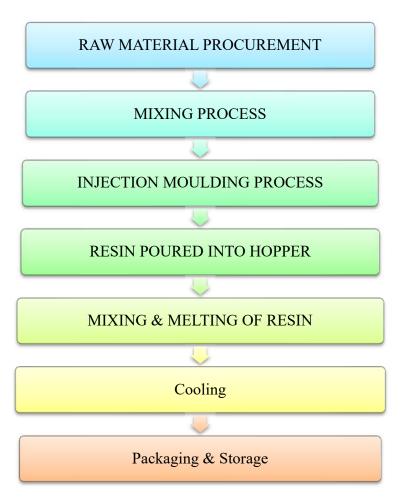
Plastic Egg Trays

Raw Material:

Basic raw materials are:

- PVC (polyvinylchloride), polypropylene (PP), polystyrene (PS) are few of the main component which can be used for production of product. Generally, PVC is preferred over others due to the easy molding process and low cost. It consists of a vinyl chloride monomer. The resin of PVC looks like a white powdery substance.
- Pigments such as organic and inorganic pigments are added in the form of powder.
- Fillers such as talc and calcium carbonate in the form of power.

Manufacturing Process:



Area:

The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and polishing area. Also, some of the area of building is required for office staff facilities, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 1500-2000Sqft.

Cost of Machines:

Machine	Unit	Rate	Price
Injection Moulding Machine	1	1000000	1000000
Cooling Tower	1	75000	75000
Scrap Tower	1	75000	75000
Total Amount			1150000

Power Requirement- The estimated Power requirement is taken at 20 HP.

Manpower Requirement – Following manpower is required:

- Machine operator-2
- Skilled/unskilled worker-3
- Helper-4
- Manager cum Accountant-1
- Sales Personnel-1

FINANCIALS

PROJECTED BALANCE SHEET

PARTICULARS	I	II	III	IV	V
SOUDCES OF FUND					
SOURCES OF FUND Capital Account					
Opening Balance		2.58	3.71	5.07	6.85
Add: Additions	1.74	-	-	-	-
Add: Net Profit	4.04	4.93	5.66	6.57	7.53
Less: Drawings	3.20	3.80	4.30	4.80	5.20
Closing Balance	2.58	3.71	5.07	6.85	9.17
CC Limit	4.87	4.87	4.87	4.87	4.87
Term Loan	9.60	7.20	4.80	2.40	-
Sundry Creditors	1.62	1.79	1.97	2.15	2.34
TOTAL:	18.67	17.57	16.71	16.27	16.38
APPLICATION OF FUND					
Fixed Assets (Gross)	12.00	12.00	12.00	12.00	12.00
Gross Dep.	1.78	3.29	4.57	5.67	6.60
Net Fixed Assets	10.23	8.71	7.43	6.33	5.40
Current Assets					
Sundry Debtors	2.87	3.40	3.81	4.24	4.69
Stock in Hand	4.16	4.63	5.13	5.65	6.18
Cash and Bank	1.42	0.83	0.34	0.05	0.11
TOTAL:	18.67	17.57	16.71	16.27	16.38

PARTICULARS	I	II	III	IV	V
THE CLING	-			11	•
A) SALES					
Gross Sale	61.56	72.84	81.61	90.82	100.49
Total (A)	61.56	72.84	81.61	90.82	100.49
B) COST OF SALES					
Raw Material Consumed	32.40	35.80	39.31	42.96	46.73
Elecricity Expenses	2.69	2.91	3.13	3.36	3.58
Repair & Maintenance	1.54	1.82	2.04	2.27	2.51
Labour & Wages	12.35	14.82	17.48	20.28	23.12
Depreciation	1.78	1.51	1.29	1.10	0.93
Cost of Production	50.75	56.86	63.26	69.97	76.88
Add: Opening Stock /WIP	_	2.54	2.84	3.16	3.50
Less: Closing Stock /WIP	2.54	2.84	3.16	3.50	3.84
Cost of Sales (B)	48.21	56.56	62.94	69.63	76.53
C) GROSS PROFIT (A-B)	13.35	16.29	18.67	21.19	23.95
	21.69%	22.36%	22.88%	23.33%	23.84%
D) Bank Interest i) (Term Loan)	1.17	0.96	0.69	0.43	0.17
ii) Interest On Working Capital	0.54	0.54	0.54	0.54	0.54
E) Salary to Staff	6.68	7.68	8.83	9.89	10.88
F) Selling & Adm Expenses Exp.	0.92	2.04	2.61	3.18	4.02
G) TOTAL (D+E+F)	9.31	11.21	12.67	14.03	15.60
H) NET PROFIT	4.04	5.08	6.00	7.15	8.35
	6.6%	7.0%	7.4%	7.9%	8.3%
I) Taxation	-	0.15	0.34	0.58	0.83
J) PROFIT (After Tax)	4.04	4.93	5.66	6.57	7.53

PROJECTED CASH FLOW STATEMENT

PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Own Contribution	1.74	_	_	_	_
Reserve & Surplus	4.04	5.08	6.00	7.15	8.35
Depriciation & Exp. W/off	1.78	1.51	1.29	1.10	0.93
Increase In Cash Credit	4.87	-	-	-	-
Increase In Term Loan	10.80	-	-	_	-
Increase in Creditors	1.62	0.17	0.18	0.18	0.19
TOTAL:	24.85	6.76	7.46	8.43	9.48
APPLICATION OF FUND					
T . T . 1.4	12.00				
Increase in Fixed Assets	12.00	- 0.40	- 0.50	0.50	- 0.52
Increase in Stock	4.16	0.48	0.50	0.52	0.53
Increase in Debtors	2.87	0.53	0.41	0.43	0.45
Repayment of Term Loan	1.20	2.40	2.40	2.40	2.40
Taxation	-	0.15	0.34	0.58	0.83
Drawings	3.20	3.80	4.30	4.80	5.20
TOTAL:	23.43	7.35	7.94	8.73	9.41
Opening Cash & Bank Balance	-	1.42	0.83	0.34	0.05
Add : Surplus	1.42 -	0.59	- 0.48	- 0.29	0.06
Man Durpius	1.72	0.39	0.70	- 0.29	0.00
Closing Cash & Bank Balance	1.42	0.83	0.34	0.05	0.11

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL PARTICULARS Ш IV I II \mathbf{V} **Finished Goods** (15 Days requirement) 2.84 3.50 3.84 2.54 3.16 Raw Material (15 Days requirement) 1.79 2.34 1.62 1.97 2.15 **Closing Stock** 4.16 4.63 5.13 5.65 6.18

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	4.16		
Less:			
Sundry Creditors	1.62		
Paid Stock	2.54	0.25	2.28
Sundry Debtors	2.87	0.29	2.59
Working Capital Rec	quirement		4.87
Margin			0.54
MPBF			4.87
Working Capital Der	nand		4.87

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Machine Operator	15,000.00	2	30,000.00
Skilled/Unskilled Worker	12,000.00	3	36,000.00
Helper	8,000.00	4	32,000.00
			-
			98,000.00
Add: 5% Fringe Benefit			4,900.00
Total Labour Cost Per Month			1,02,900.00
Total Labour Cost for the year (In Rs. Lakhs)		9	12.35

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Manager cum Accountant	28,000.00	1	28,000.00
Sales personnel	25,000.00	1	25,000.00
			-
Total Salary Per Month			53,000.00
Add: 5% Fringe Benefit			2,650.00
Total Salary for the month			55,650.00
Total Salary for the year (In Rs. Lakhs)		2	6.68

REPAYMEN	NT SCHEDULE OF T	ERM LOA	<u>N</u>			11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
I	Opening Balance						
	Ist Quarter	-	10.80	10.80	0.30	-	10.80
	Iind Quarter	10.80	-	10.80	0.30	-	10.80
	IIIrd Quarter	10.80	-	10.80	0.30	0.60	10.20
	Ivth Quarter	10.20	-	10.20	0.28	0.60	9.60
					1.17	1.20	
II	Opening Balance						
	Ist Quarter	9.60	-	9.60	0.26	0.60	9.00
	Iind Quarter	9.00	-	9.00	0.25	0.60	8.40
	IIIrd Quarter	8.40	-	8.40	0.23	0.60	7.80
	Ivth Quarter	7.80		7.80	0.21	0.60	7.20
	-				0.96	2.40	
III	Opening Balance						
	Ist Quarter	7.20	-	7.20	0.20	0.60	6.60
	Iind Quarter	6.60	-	6.60	0.18	0.60	6.00
	IIIrd Quarter	6.00	-	6.00	0.17	0.60	5.40
	Ivth Quarter	5.40		5.40	0.15	0.60	4.80
					0.69	2.40	
IV	Opening Balance						
	Ist Quarter	4.80	-	4.80	0.13	0.60	4.20
	Iind Quarter	4.20	-	4.20	0.12	0.60	3.60
	IIIrd Quarter	3.60	-	3.60	0.10	0.60	3.00
	Ivth Quarter	3.00		3.00	0.08	0.60	2.40
	-				0.43	2.40	
V	Opening Balance						
	Ist Quarter	2.40	-	2.40	0.07	0.60	1.80
	Iind Quarter	1.80	-	1.80	0.05	0.60	1.20
- I	IIIrd Quarter	1.20	-	1.20	0.03	0.60	0.60
	Ivth Quarter	0.60		0.60	0.02	0.60	0.00
					0.17	2.40	

Door to Door Period60MonthsMoratorium Period6MonthsRepayment Period54Months

	CALC	ULATI	ON OF	D.S.	C.R
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CALCULATION OF D.S.C.R					
PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	5.82	6.44	6.95	7.67	8.46
Interest on Term Loan	1.17	0.96	0.69	0.43	0.17
Total	6.99	7.40	7.64	8.10	8.62
REPAYMENT					
Repayment of Term Loan	1.20	2.40	2.40	2.40	2.40
Interest on Term Loan	1.17	0.96	0.69	0.43	0.17
Total	2.37	3.36	3.09	2.83	2.57
DEBT SERVICE COVERAGE RATIO	2.95	2.20	2.47	2.86	3.36
AVERAGE D.S.C.R.			2.73		

Assumptions:

- 1. Production Capacity of Plastic egg tray manufacturing unit is taken at 1500 Pcs per day. First year, Capacity has been taken @ 60%.
- 2. Working shift of 10 hours per day has been considered.
- 3. Raw Material stock and Finished goods closing stock has been taken for 15 days.
- 4. Credit period to Sundry Debtors has been given for 14 days.
- 5. Credit period by the Sundry Creditors has been provided for 15 days.
- 6. Depreciation and Income tax has been taken as per the Income tax Act, 1961.
- 7. Interest on working Capital Loan and Term loan has been taken at 11%.
- 8. Salary and wages rates are taken as per the Current Market Scenario.
- 9. Power Consumption has been taken at 20 HP.
- 10. Selling Prices & Raw material costing has been increased by 3% & 2% respectively in the subsequent years.



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