PLASTIK BUCKET

1. INTRODUCTION

Plastic Buckets have been used in Indian households for over 30 years in every strata of society. The traditional galvanised iron, aluminium and brass buckets have been to a great extent been replaced by HDPE moulded buckets. The important performance characteristics they provide include lightness, unbreakablility, ease in handling, safety in use, resistance to boiling water and chemicals, color variability to match environment and economical cost. The HDPE Buckets are available in the market ranging from 13.5 liters to 25 liters capacity. However, the bucket having 21 liter capacity is the most popular in the market.

2. PRODUCTS AND ITS APPLICATION

Plastic bucket can be determined in each household. Plastic bucket has many uses; some use it for bathing, and some for storing eatable object. Plastic buckets are also used for commercial reason for transportation and packaging.

3. DESIRED QUALIFICATION FOR PROMOTER

The Promoter should have preferably a basic degree in plastic engineering/ processing or a degree/ diploma in engineering / or a degree in chemistry. Experience of at least two to three years in plastic industry is desirable.

4. INDUSTRY OUTLOOK AND TREND

Plastic processing industry outlook is positive in the century. The industry has been growing at the annual rate of 15 to 17% and is expected to register better growth in future. The plastic bucket sub segment is more consumed consumer

product; it is expected to show an encouraging and stable, sustained growth trends in future.

5. MARKET POTENTIAL AND MARKETING ISSUES, IF ANY

In accordance with the Working Group Report on Petrochemicals, Ministry of Chemicals & Fertilizers, the demand of total HDPE Injection Moulded items including buckets in India is projected to be 2400 Kilo Tones by 2017-18 having growth rate @ 16%. However, the moulded buckets and mugs are fast moving items. The growth rate and demand is envisaged on an average 11 – 12 percent per annum.

6. RAW MATERIAL REQUIREMENTS

HDPE Granules

7. MANUFACTURING PROCESS

HDPE Buckets can be moulded on Ram type or Screw type preplasticiser machines. The latter is preferred. The process involves feeding the raw material to the machine through a hopper. The barrel is heated to melt the material, which is injected into the mould halves by the forward movement of the screws into the cavity. The mould cavity is cooled by passage of water at ambient or low temperature to freeze the molten material. The pressure of the screw is held for some time and then it retracts by screw rotation. At the end of the moulding and cooling cycle, the mould halves open and the moulded item is extracted manually or automatically. Thus the entire moulding cycle comprising injection, holding the injection pressure, cooling and the idle time for extracting the moulding is completed.

8. MANPOWER REQUIREMENT

Sr. No.	Particulars	Nos	Salary
1	Production Engineer	1	12000
2	Manager	1	12000

3	Sales Executive	1	10000
4	Accountant	1	10000
5	Store Keeper	1	8000
6	Watchman	2	14000
7	Skilled Workers	4	32000
8	Helpers	4	24000
9	Electrician	1	7000
	Total	16	129000

9. IMPLEMENTATION SCHEDULE

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

10. COST OF PROJECT

Sr. No.	Particulars	Rs. In lakhs
1	Land and Building	38.00
2	Plant and Machinery	46.30
3	Miscellaneous Assets	3.50
4	P & P Expenses	3.00
	Contingencies @ 10% on land and building and plant and	
5	machinery	8.43
6	Working capital margin	23.21
	Total	122.44

11. MEANS OF FINANCE

Sr. No.	Particulars	Rs. (lakhs)
1	Promoter's contribution	36.73
2	Bank Finance	85.71
3	Total	122.44

12. WORKING CAPITAL CALCULATION

Sr No	Particulars	Rs.	Stock	Promoter	Margin	Bank
Sr. No.	Particulars	lakhs	Period days	Margin	Amt.	Finance
1	Salaries and wages	1.29	30	1	1.29	-
2	Raw material and packaging material	20.16	30	0.5	10.08	10.08
3	Utilities	1.08	30	0.5	0.54	0.54
4	Debtors	28.26	30	0.4	11.304	16.956
	Total	50.79			23.214	

13. LIST OF MACHINERY REQUIRED

Sr. No.	Particulars	Rs. lakhs
1	Injection Moulding 350 Ton Capacity	40.00
2	Compressor 5 Kg Pressure	0.30
3	Cooling Tower	2.50
4	Scrap Grinder	1.50
5	Moulds & Dies	2.00
	Total	46.30

Indicative and illustrative list of machinery manufacturers for this project is given bellow:

- Ferromatic Hilacro India Pvt. Ltd., Ahmedabad
- SHI Plastic Machinery India Pvt. Ltd., Gurgaon
- Patel Plastic Machinery Manufacturers, Ahmedabad
- Polymach Pplast Machinery Ltd. Vadodara

14. PROFITABILITY CALCULATIONS

Sr. No.	Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
		2373638	2712729	3051820	3051820	3051820
(A)	Sales Realization per annum	4	6	8	8	8
(B)	Cost of Production					
		1693440	1935360	2177280	2177280	2177280
1	Raw material per annum	0	0	0	0	0
2	Utilities	903000	1032000	1161000	1161000	1161000
3	Salaries	1548000	1671840	1795680	1919520	2043360
4	Repairs and maintenance	270000	290000	310000	330000	350000
	Selling expenses (3% on sales	712091.	813818.	915546.	915546.	915546.
5	value)	5	9	2	2	2

	Administrative Expenses (other					
6	expenses)	450000	500000	550000	600000	650000
	Total	2081749	2366125	2650502	2669886	2689270
	local	2	9	6	6	6
	(C) Profit before interest &					
	depreciation	2918892	3466037	4013182	3819342	3625502
	depreciation	1264500	1264500	1264500	1264500	1264500
	Profit Before term loan and tax	1654392	2201537	2748682	2554842	2361002
	Interest on term loan (11%)	909117	808104	673420	538736	404052
	Profit before tax	745275.				
	Front before tax	5	1393433	2075262	2016106	1956950
	Tax (30%)	223582.	418029.	622578.	604831.	587084.
	lax (50%)	6	9	5	7	9
	Total Profit		975403.			
	local Fiolic	8	2	1452683	1411274	1369865

Underlying assumptions for probability calculation are:-

The installed capacity of the plant is assumed at 300 MT per annum. First year capacity utilization is taken at 70% resulting in production and sales of 210 Tonnes of finished products. The raw material price of the major products is assumed at Rs. 80-82/- per KG whereas the selling price is taken at Rs.105-110/- per KG. Power cost is taken at Rs.8/- per unit. Interest rate on long term loan is taken at 11%.

15. BREAKEVEN ANALYSIS

Fixed Cost (FC):	Rs. In lakhs
Wages & Salaries	15.48
Repairs & Maintenance	2.7
Depreciation	12.65
Admin. & General expenses	4.5
Interest on Term Loan	9.09
Total	44.42

Fixed Cost: 44.42

Profit After Tax: 5.22

 $BEP = FC \times 100/FC+P$

44.42/49.64 x 70/100 x 100

62.64 %

16. STATUTORY/GOVERNMENT APPROVALS

There is no specific statutory requirement for plastic industry process. However, MSME registration various taxation related registration and labour law related compliances have to be ensured. Entrepreneur may contact State Pollution Control Board where ever it is applicable.

17. BACKWARD & FORWARD LINKAGES

There are no specific backward or forward linkages related techno-economic advantages or synergies for this type of project. However, in future after achieving certain growth entrepreneur may consider backward linkage.

18. TRAINING CENTRE AND COURSES:

There are number of institutions providing facilities and training courses on production/marketing for the proposed project. These are Central Institute of Plastic Engineering and Technology (CIPET), Indian Institute of Packaging Management (IIPM), Plastic and Rubber Institute (PRI), Indo German Tool Room (IGTR), etc.

Udyamimitra portal (link: www.udyamimitra.in) can also be accessed for handholding services viz. application filling / project report preparation, EDP, financial Training, Skill Development, mentoring etc.

Entrepreneurship program helps to run business successfully is also available from Institutes like Entrepreneurship Development Institute of India (EDII) and its affiliates all over India.

Disclaimer:

Only few machine manufacturers are mentioned in the profile, although many machine manufacturers are available in the market. The addresses given for machinery manufacturers have been taken from reliable sources, to the best of knowledge and contacts. However, no responsibility is admitted, in case any inadvertent error or incorrectness is noticed therein. Further the same have been given by way of information only and do not carry any recommendation.

Source: - Udyami Mitra/Sidbi