

MANUFACTURE OF PAPER PRODUCTS (PAPER CUPS)

1. INTRODUCTION:

A paper cup is a disposable made out of paper and after lined with plastic or wax prevent liquid from leakage out or soaking by paper. Paper cups are made from renewable resources. The cups should be made from food grade paper which is hygienic in nature. It is capable for holding both hot & cold liquid for longer time. The uses of paper cups have wide range. Give the rapid changes in life style; it is the right time to enter the consumer segment to popularize the home consumption of paper cups.

There are several inherent advantages in using Paper Cups as compared to cups of other materials. These Paper Cups are gaining popularity all across the globe as a beautiful and stylish way of minimizing exposure to food borne infections.

Paper Cups have numerous advantages like; they are manufactured in a very simple process using Food Grade Raw Materials with least waste and are easiest to recycle. They are ideal for individual servings at all kinds of parties, functions, picnic occasions, marriages, chat, tea & food joints, etc. Non-toxic in nature, the shapes and surface designs on these paper cups are attractive and present an inviting look. These paper cups can also be custom printed with an outlet's logo, brand punch line or advertising message.

2. MARKET POTENTIAL

A wide range of paper cups are now produced and marketed in India. The paper cups are reckoned to be a high potential business for India. Manufacturing Paper Cups is the purpose of satisfying needs and wants of Consumers is the market place. Developing a strategy for delivering an effective combination of food grade quality and cost effective features for consumers within the target market is done.

The prospects of paper cups depend on the value of customers who utilize it. But in our country paper cups are used by all the people as it is easy to use, hygienic and eco-friendly. Hence, per capital consumption has increased and the demand for it is recognized. While the demand for paper cups has shown a good growth, the company will be successful in strategizing its market operations.

As paper cups are a product of daily consumption and necessity, their marketing will not be a problem as the consumers are aware of the advantages of using paper cups. The raw materials are indigenously available and the manufacturing process is also simple.

Paper Cup find potential market in IT companies, Educational Institutions Canteens, Industrial Canteens, Restaurants, Fast Foods, Catering People, Tea Shops, Paper Product Dealers and Super Markets.

3. MANUFACTURING PROCESS OF PAPER CUPS:

We have proposed to use the Automatic Paper Cup Forming Machine for our manufacturing process of Paper Cups. The general structure of paper cup forming machine is composed of three stages. They are:

- The first stage: mainly finishes transmission of the paper cup's sidewall paper, shaping side-wall and transferring them to the second stage after shaped.
- The second stage: transmission of the cup-bottom paper, shaping cup bottom, joining the shaped side-wall and cup bottom, automatic transmission and discharging of the shaped cup, and curling the shaped cup's edge.
- The third stage: mainly includes 45degree angle separating, preheating, curling bottom, curling rim and so on mechanisms, which are the important parts in finishing paper cup.

4. BASIS AND PRESUMPTION OF THE PROJECT:

- The process of manufacture is on the basis of eight hours per day with three hundred working days in a year.
- Labor and wages mentioned in profile are as per prevailing local rates.
- Interest rate at 15% considered in the project.
- The Promoter contribution will be 25 % of the total project cost.
- The capacity of the plant nos. of paper cups per day.

5. INSPECTION AND QUALITY CONTROL:

Plant will strictly adhere to the International FDA standards and Indian BIS standards in the process of manufacturing Paper Cups from procuring high quality food grade raw materials to hygienic methods of packaging.

6. PRODUCTION CAPACITY PER ANNUM:

Quantity: 73000 nos. of paper cups per day 22,000,000 nos. of paper cups per annum
(300 days)

7. POLLUTION CONTROL

The technology adopted for making paper cups is eco-friendly. Cup forming process is totally automatically done by the machine, only feeding and packaging

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involves manual work. The scrap papers created out of this manufacturing process also can be sold for recycled paper converters. Hence there is no chance of any pollution out of this industry.

FINANCIAL ASPECTS

A. FIXED CAPITAL

i. Land and building

Covered area (500 Sq. meters) rented: 5,000

ii. Machinery and Equipments

SI No	Description	Quantity	Rate	Value
1	Machine	1	8,50,000	8,50,000
2	Dyes	3	50,000	1,50,000
3	Office Equipments and Furniture		50,000	50,000
4	Electrification and Installation		10,000	10,000
Total				10,60,000
5	Pre-operative Expenses			10,000
	Total Fixed Capital			10,70,000

B. WORKING CAPITAL

1. Staff and Labour (per month)

SI No.	Description	No.	Salary	Total
1	Sale Cum Production Manager	1	15000	15000
2	Skilled Worker	1	10,000	10000
3	Unskilled Worker	1	7000	7000

	Total			32000
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Add Pre Requisite@ 15% :4800

Total : 36800

Approximately : 37000

2. Raw Materials Requirements (Per Month)

Sl No.	Description	Quantity	Rate	Value
1	Printed PE Paper	2836 Kg	92	260912
2	Bottom Reel	1134 Kg	78	88452
3	Packing Material			25000
	Total			374364
	Approximately			375000

3. Utilities (Per Month)

Sl No	Description	Amount
1	Power	5000
2	Machine Oil & Grease	1000
	Total	6000

4. Contingent Expenses(Per Month)

Sl No.	Description	Amount
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1	Rent	5000
2	Postage and Stationary	500
3	Transportation charge	10000
4	Maintenance Charge	2000
5	Advertisement	1000
6	Phone	2000
	Total	20500

5. Total Working Capital (Per Month)

Sl. No	Description	Amount
1	Raw Material	375000
2	Utilities	6000
3	Salary	37000
4	Contigent	20500
	Total	438500

6. WORKING CAPITAL FOR 3 MONTHS

$$\begin{aligned} \text{Working capital for 3 months} &= 3 * 438500 \\ &= 13,15,500 \end{aligned}$$

TOTAL CAPITAL INVESTMENT

Fixed Capital : 10,70,000
Working Capital for 3 months : 13,15,500
Total :
23,85,500

Financial Analysis

a. Cost of Production (Per Year)

Sl. No	Description	Amount
1	Total Recurring Cost	5262000
2	Depreciation on Machine @ 10%	85000
3	Depreciation on Dyes @ 25%	37500
4	Depreciation on Furniture @ 20%	10000
5	Interest on Total Capital Investment @ 15%	268369
	Total	5662869 (5662900 Approx.)

b. Turnover (per year)

Sl No	Description	Qty	Rate(Rs)	Value(Rs)
1	Paper Cups	22,000,000	0.3	6600000
Total				6600000

c. Net Profit(Before Taxation)

Turn Over :6600000
Cost of Production (-) : 5662900
Total : 937100

d. Net Profit Ratio

$$\text{Net Profit Ratio} = \frac{\text{Net Profit per year}}{\text{Turnover per year}} \times 100$$
$$= 14.20\%$$

e. Rate of Return on Total Investment

$$= \frac{\text{Net Profit Per Year}}{\text{Total Investment}} \times 100 = 39.28\%$$

f. Break Even Point Fixed Cost

Sl. No	Description	Amount (Rs)
1	Rent for one Year	60000
2	Total Depreciation	132500
3	Interest on Total investment	268369
4	40% of Salary and Wages	177600
5	40% of Utilities and Contingents	127200
	Total	765669(765700 approx)

$$\text{B.E.P} = \frac{\text{Fixed Cost}}{\text{Fixed Cost} + \text{Net Profit}} \times 100 = 44.96\%$$

Address of Machinery and Equipment Suppliers

- AKR Industries No. 36 A&B New Colony, North Street,
Mannarpuram ,Trichy
Pin-620020
- Sri Jata Machine Tech No. 24/1, SIDCO Industrial Estate, Kurichi Post Pollachi Main
Road,Coimbatore - 641021, Tamil Nadu
www.papercupmachineries.in
- Future Enterprises No. 9 AA, Anna Nagar Podanur, Coimbatore-641023
Tamil Nadu, www.futureenterprises.co.in

List of Suppliers of Raw Material

- Sri Jata Machine Tech No. 24/1,
SIDCO Industrial Estate, Kurichi Post Pollachi Main Road,
Coimbatore - 641021, Tamil Nadu www.papercupmachineries.in
- Sagun Papers No.100, Velayutham Road Near LIC Building,
Sivakasi - 626123, Tamil Nadu
- Indo China And Boards No. 54, Industrial Estate, Sivakasi- 626123
Tamil Nadu
www.indiamart.com/icpaper

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Source:- Udyami Mitra/Sidbi