
Bamboo flower vase (Round Bamboo)

a. Introduction

Bamboo flower vase; it offers you the same functionality made from other materials, while adding in a touch of nature at the same time. It can be easily placed on a counter, mantel, bookshelf, or just about anywhere. There are a number of benefits to using this. Bamboo can be grown sustainably, does not pollute the environment, and composts relatively quickly. They are a great eco-friendly choice if you are looking into.

With change in lifestyle now days Bamboo flower vase in hotel and restaurants especially in ecotourism, or a regular usage in home and offices. The beautiful natural hand-crafted bamboo vase provides perfect gift along with aesthetics and added socio economic and environmental benefits.

b. Market Demand

Most bamboo flower vase are made from solid bamboo, it can last for years, if one takes good care of it and is manufactured without any emission/pollution. So, the market for bamboo handicrafts especially "Bamboo flower vase" is large and ever-expanding. Bamboo handicrafts are very popular in many countries of the world where their natural appearance and their environmentally friendly production methods are major selling points.

c. Production Target

Bamboo flower vase can be manufactured in a very decentralised manner and is easily done by small carpentry shops/ HH carpenters. The unit may be established on a small scale as private household businesses or on a larger scale as a cooperative or government enterprise. Especially for Bamboo artisans, individual carpenters and other disadvantaged groups, which can also ensure better income distribution, and earns valuable foreign exchange through exports.

d. Assumptions, if any

The essential requirements for a successful unit are:

- Regular supply of mature bamboo culms (appropriate diameter)
- Unskilled and skilled labour
- Small amount of start-up capital; and
- Market access.

e. Production Process

Bamboo flower vase have always been made by hand. The steps in making of flower vase in traditional method follows;

- Cutting of bamboo culms
- Making flower vase embryos (Cutting desired size of a vase)
- Process the outer wall and bottom of the bamboo flower vase
- Fixing a stand at the bottom if required
- Overall frosted fine processing

f. List of machinery required along with quantity with Unit Price.

- The tools required for manual making of bamboo flower vase are; hand saws, shaving knives and hand drills, Flat/ round rasp file, bench vice and emery papers. These tools can easily be purchased from any local tool supplier.
- Electric hand and power tools can be used to increase productivity and reduce wastage of raw materials, The main machines are crosscutting machine, bamboo turning machine, power drill, angle grinder.

Sl. no	Tools & Equipments	Nos.	Unit Price in INR)
1	Hand saws	5	200
2	Shaving knives	5	250
3	Flat/ round rasp file (set)	2	750
4	Bench Vice	2	1,250
5	Electric cross-cutter	1	10,500
6	Electric bamboo turning machine	1	34,000
7	Angle Grinder	1	2,500

ONE PAGER SUMMARY OF BAMBOO FLOWER VASE

Sl. No.	Particulars	Description				
A. Project Description						
1	Proposed Project	BAMBOO FLOWER VASE				
2	Capacity of the machine (at 100% capacity utilization)					
3	Year wise capacity utilization	Year- 1	Year- 2	Year- 3	Year- 4	Year- 5
		70%	80%	90%	100%	100%
4	Raw Materials Required	Bamboo, Boric Borax, Super glue, Colour/Dye agent, Varnish/Lacquer, Miscellaneous items				
5	Final Product	BAMBOO FLOWER VASE				
6	Infrastructure Required	Shed (500 sq ft)				
7	Plant and machinery	Hand saws Shaving knives Flat/round rasp file set Bench vice Electric cross-cutter Electric Bamboo turning machine Angle Grinder				
8	Employment Generation	9 Hired labour – 8 semiskilled, 1 skilled. Semiskilled laborers shall make the rough bamboo vases. Skilled labour shall overlook the finishing through the turning machine. The lacquer and varnish will be finally applied by semi-skilled labourers.				
B. Project Cost		(Figures in Rs. Lakhs)				
1	Land (own)				0.00	
2	Civil works and Buildings (500 sqft @200/sqft)				1.00	
3	Machinery				0.63	
4	Others				0.30	
5	Sub-total (A)				1.93	
6	Working Capital Margin @40% of Total WC Requirement				0.22	
7	Total Project Cost				2.48	
8	Total Working Capital Req (B)				0.55	
C. Means of Finance		(Figures in Rs. Lakhs)				
9	Total Funds Required(A+B)				2.48	
10	TERM LOAN (75% of A)				1.45	
11	WORKING CAPITAL (60% of B)				0.33	
12	Total				1.78	
13	Equity				0.70	
14	Total				2.48	

D. Financial Benchmarks		(Figures in Rs. Lakhs)			
		Year- 1	Year- 2	Year- 3	Year- 4
1	Target Revenue (Lakh)	11	13	15	16
2	Break Even Point	61.93%	51.85%	43.47%	37.18%
3	DSCR including Principal repayment	3.91	2.78	3.72	4.84
E. Basic Assumptions					
1	Production of Bamboo Flower Vase	6 labour will on average be able to produce 5-6 semi processed vases depending on size per worker per day, working 300 days in a year. Only the part with nodes shall be used. Rest may be used for other craft items. Roughly 30-40 Glasses shall be finished using the single turning machine. 1 skilled labour will work on the turning machine. 2 semi-skilled labour will apply varnish and lacquer to achieve finishing			
2	Machinery	This is a profile of a household level enterprise with 9 hired labour.			
3	Interest rate assumed	11%			
4	Repayment period	5 Years with 3 months moratorium			
F. Others					
1	Training Institutes	CBTC Meghalaya, BCDI Agartala, IIE Guwahati, TRIBAC			
2	Whether the service is in the Negative list under NEIDS and MSME?	No			

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