
Waste paper bin

a. Introduction

Woven bamboo products are produced from thin Slivers/strips of bamboo. There are a wide variety of such products and they have been closely associated with the development of civilizations in bamboo growing regions in India for many millennia. Bamboo Basket/Winnowing basket or bamboo threshing basket are being used for airing and threshing of food grains. Waste paper bin may also be made using bamboo strips; however this profile is created for woven waste paper bins.

With change in lifestyle now days Bamboo Baskets, with a couple of weaving patterns are being used for different purposed, such as Waste paper bin, Laundry-bins and fruit and vegetable baskets. A beautiful natural hand-crafted Bamboo Waste paper bin can help replace the plastic bins used in offices and homes and can add to the aesthetics of the room. Use of bamboo in making such bins has added socio economic and environmental benefits.

b. Market Demand

Using bamboo instead of other un-sustainable material helps significantly reduce our carbon footprint. Bamboo waste paper bin provides innovative sustainable solutions for ever office and also homes to put dry paper waste. The market for bamboo products especially “Bamboo waste paper bins” is large and ever-expanding especially in offices. With the Government discouraging use of plastic, bamboo waste paper bins can quickly replace the plastic bins used in offices. Being a sustainable and handicraft product Bamboo waste paper bins now a days getting 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

Weaving of bamboo waste paper bins can be done in a very decentralised manner and is easily done by homebound women and those that are unable to do manual labour. The unit may be established on a small scale as private household businesses or on a larger scale as a cooperative or government enterprise. Therefore, bamboo weaving generates employment, especially for women and other disadvantaged groups, ensures 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 bamboo culms used in basketry (Larger internode lengths)
- Unskilled and skilled labor
- Small amount of start-up capital; and
- Market access.

e. Production Process

Slivers/Strips are the basic materials for weaving various bamboo crafts including waste paper bins. Proper treatment of raw materials is a very important aspect for a procedure that affects the final quality of the goods. The processing techniques for making bamboo splits are;

- Cutting of bamboo culms
- Cross-cutting
- Knot removal
- Splitting
- Smoothing
- width-sizing
- Slivering/stripping
- Weaving and finishing

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

- The tools required for manual weaving bamboo waste paper bin are; Slivering/stripping knives, Hand saws, striking planks, shaving knives and hand drills. These tools can easily be purchased from any local tool supplier or can be made by the weavers themselves.
- Although cross-cutting, splitting of bamboo culms and making strips and threads can be done manually, machines are normally used to increase productivity, reduce wastage of raw materials, increase the yield of bamboo strips and remove drudgery in the primary processing of the culms. The main machines are crosscutting machine, sliver-making machine, splitting machine and width sizing machine.

Sl. no	Tools & Equipments	Nos.	Unit Price in INR)
1	Slivering/stripping knives	5	150
2	Hand saws	5	200
3	shaving knives	5	250
4	Electric cross-cutter	1	10,500
5	Manual Splitting machine	1	6,500
6	Thin Sliver-making machine	1	36,000
7	Width sizing machine	1	4,500
8	Angle Grinder	1	2,500

ONE PAGER SUMMARY OF BAMBOO WASTE PAPER BIN

Sl. No.	Particulars	Description				
A. Project Description						
1	Proposed Project	Bamboo Waste Paper Bin				
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, Cane, Alum for treatment, Colour/Dye agent, Miscellaneous items, Varnish/Lacquer				
5	Final Product	Bamboo Waste Paper Bin				
6	Infrastructure Required	Shed (500 sq ft)				
7	Plant and machinery	Slivering/stripping knives Hand saws Shaving knives Electric cross-cutter Manual Splitting machine Thin Sliver-making machine Width sizing machine Angle Grinder				
8	Employment Generation	10 Hired labour – 4 semiskilled, 4 skilled, 2 unskilled				
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					0.74
4	Others					0.30
5	Sub-total (A)					2.04
6	Working Capital Margin @40% of Total WC Requirement					0.15
7	Total Project Cost					2.43
8	Total Working Capital Req (B)					0.38
C. Means of Finance (Figures in Rs. Lakhs)						
9	Total Funds Required(A+B)					2.43
10	TERM LOAN (75% of A)					1.53
11	WORKING CAPITAL (60% of B)					0.23
12	Total Loan					1.76
13	Equity					0.66
14	Total Own Contribution					2.43

D. Financial Benchmarks		(Figures in Rs. Lakhs)			
		Year- 1	Year- 2	Year- 3	Year- 4
1	Target Revenue (Lakh)	15	17	19	22
2	Break Even Point	62.80%	52.71%	44.36%	38.09%
3	DSCR including Principal repayment	4.04	2.80	3.72	4.81
E. Basic Assumptions					
1	Production of Bamboo Waste Paper Bin	4 unskilled and 4 skilled labour will on average be able to produce 4 finished Waste Paper Bins per worker per day, working 300 days in a year. Price of one such Waste Paper Bin is assumed as Rs 160 (10-12 inch), Rs. 220 (14-16 inch) and Rs. 300 (18-20 inch). Unskilled labour will help in treatment and applying lacquer or varnish			
2	Machinery	This is a profile of a household level enterprise with 10 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			