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## *Bamboo Magazine holders*

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### **a. Introduction**

For the home, office hotel and resorts a magazine holder/rack is an accessory piece of furniture that is used to hold magazines, newspapers, and other periodicals that a home/hotel owner may want to keep accessible. There are a number of different styles constructed from a variety of different materials including wood, plastic, and metal. Bamboo being a woody grass, with strong fibre and long culms, is one of the best natural substitute materials. Thus, in the modern world also we can expect this material to create wonderful magazine holders by using its indigenous properties and many of this unsustainable plastic made products can be replaced by bamboo magazine holders of various size and shapes

### **b. Market Demand**

Nowadays there is a high demand of eco-friendly products such as bamboo in residential uses, hotel & restaurants particularly in the eco-tourism sector. So, institutional buyers including hotel, resorts and restaurants, event management companies, government and private canteens across the country. Online portals like India Mart, Amazon, flip-kart etc. can also be explored.

### **c. Production Target**

Bamboo magazine holders 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 bamboo culms (especially lower/ middle part with higher thickness)
- Centralised/ Individual treatment facilities
- Unskilled and skilled labour
- Small amount of start-up capital; and
- Market access.

### **e. Production Process**

Bamboo straight Strips are the basic materials for making of a magazine holder of various shape and sizes. Proper treatment of raw materials is a very important aspect that affects the final quality of the goods. The manufacturing process/techniques for making bamboo Strips are;

- Cross-cutting of bamboo culms
- Knot removal (both internal and external)
- Splitting
- Smoothing
- width-sizing
- Strip making
- Final assembling

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

- The tools required for manufacturing of magazine holders at house hold level is; Striping knives, Hand saws, striking planks, shaving knives, hand planner and hand drills, emery paper and bench vice. 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 thick strips 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 can be used are chop-saw/ crosscutting machine, splitting machine, 4side strip planner, width sizing machine, disc and Belt sander, Stand drills.

Sl. no	Tools & Equipments	Nos.	Unit Price in INR)
1	Slivering/striping knives	5	150
2	Hand saws	5	200
3	Hand Planner	2	680
4	Shaving knives	5	250
5	Electric cross-cutter	1	10,500
6	Electric Splitting machine	1	1,50,000
7	4-side strip planning machine	1	2,95,000
8	Width sizing machine	1	4,500
9	Disc and Belt sander	1	15,000

## ONE PAGER SUMMARY OF BAMBOO MAGAZINE HOLDER

Sl. No.	Particulars	Description				
A. Project Description						
1	Proposed Project	Bamboo Magazine Holder				
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, Super glue, Boric-Borax, Colour/Dye agent, Miscellaneous items, Varnish/Lacquer				
5	Final Product	Bamboo Magazine Holder				
6	Infrastructure Required	Shed (500 sq ft)				
7	Plant and machinery	Slivering/stripping knives Hand saws Hand Planner Shaving knives Electric cross-cutter Electric Splitting machine 4-side strip planning machine Width sizing machine Disc and Belt sander				
8	Employment Generation	10 Hired labour – 6 semiskilled, 2 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					5.66
4	Others					0.30
5	Sub-total (A)					6.96
6	Working Capital Margin @40% of Total WC Requirement					0.75
7	Total Project Cost					8.83
8	Total Working Capital Req (B)					1.87
C. Means of Finance (Figures in Rs. Lakhs)						
9	Total Funds Required(A+B)					8.83
10	TERM LOAN (75% of A)					5.22
11	WORKING CAPITAL (60% of B)					1.12
12	Total Loan					6.34
13	Equity					2.49
14	Total Own Contribution					8.83

D. Financial Benchmarks		(Figures in Rs. Lakhs)			
		Year- 1	Year- 2	Year- 3	Year- 4
1	Target Revenue (Lakh)	24	28	31	35
2	Break Even Point	49.01%	38.43%	29.96%	23.90%
3	DSCR including Principal repayment	4.55	3.05	3.92	4.97
E. Basic Assumptions					
1	Production of Bamboo Magazine Holder	6 skilled and 2 semi-skilled labour will on average be able to produce 6 finished Magazine holders per worker per day, working 300 days in a year. Price of one such Magazine holder is assumed as Rs 240. 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			