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## *Bamboo Laundry bin*

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### **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.

With change in lifestyle now days Bamboo Baskets, with a couple of weaving patterns are being used for different purposed, such as Laundry-bins and fruit and vegetable baskets. A beautiful natural hand-crafted Bamboo Laundry-bin provides perfect gift along with aesthetics and added socio economic and environmental benefits.

### **b. Market Demand**

Using bamboo instead of other un-sustainable material helps significantly reduce our carbon footprint. Bamboo Laundry-bins provides innovative sustainable solutions for ever home to store dirty clothes for washing. The market for bamboo products especially “Bamboo Laundry-bins” is large and ever-expanding. Being a sustainable and handicraft product Bamboo laundry-bins is very popular in many countries of the world where their natural appearance and their environmentally friendly production methods are major selling points and has good potential to replace unsustainable materials such as plastic.

### **c. Production Target**

Weaving of bamboo Laundry-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 laundry 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 Laundry-bins 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	2	36.000
7	Width sizing machine	2	4,500
8	Angle Grinder	2	2,500

## ONE PAGER SUMMARY OF BAMBOO LAUNDRY BIN

Sl. No.	Particulars	Description				
<b>A. Project Description</b>						
1	Proposed Project	<b>Bamboo Laundry Bin</b>				
2	Capacity of the machine (at 100% capacity utilization)					
3	Year wise capacity utilization	<b>Year- 1</b>	<b>Year- 2</b>	<b>Year- 3</b>	<b>Year- 4</b>	<b>Year- 5</b>
		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 Laundry 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 – 3 semiskilled, 5 skilled, 2 unskilled				
<b>B. Project Cost</b>						
						<b>(Figures in Rs. Lakhs)</b>
1	Land (own)					0.00
2	Civil works and Buildings (500 sqft @200/sqft)					1.00
3	Machinery					1.28
4	Others					0.30
5	<b>Sub-total (A)</b>					<b>2.58</b>
6	Working Capital Margin @40% of Total WC Requirement					0.36
7	<b>Total Project Cost</b>					<b>3.49</b>
8	Total Working Capital Req (B)					0.91
<b>C. Means of Finance</b>						
						<b>(Figures in Rs. Lakhs)</b>
9	<b>Total Funds Required(A+B)</b>					<b>3.49</b>
10	TERM LOAN (75% of A)					1.94
11	WORKING CAPITAL (60% of B)					0.55
12	<b>Total Loan</b>					<b>2.48</b>
13	Equity					1.01
14	<b>Total Own Contribution</b>					<b>3.49</b>

<b>D. Financial Benchmarks</b>		<b>(Figures in Rs. Lakhs)</b>			
		<b>Year- 1</b>	<b>Year- 2</b>	<b>Year- 3</b>	<b>Year- 4</b>
1	Target Revenue (Lakh)	18	21	24	26
2	Break Even Point	60.51%	50.10%	41.56%	35.25%
3	DSCR including Principal repayment	3.86	2.74	3.64	4.72
<b>E. Basic Assumptions</b>					
1	Production of Bamboo Laundry Bin	5 skilled and 3 semi-skilled labour will on average be able to produce 2 finished Laundry Bins per worker per day, working 300 days in a year. Price of one such Laundry Bin is assumed as Rs 550. Unskilled labour will help in treatment and applying lacquer or varnish. If cloth is to be used on the inner surface the basket, the cost will be additional.			
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			
<b>F. Others</b>					
1	Training Institutes	CBTC Meghalaya, BCDI Agartala, IIE Guwahati, TRIBAC			
2	Whether the service is in the Negative list under NEIDS and MSME?	No			