# *Bamboo pen stand (Round Bamboo)*

**a. Introduction**

Bamboo pen stand; 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 one prefers. 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 pen stand are used in in home and offices. The beautiful natural hand-crafted bamboo pen stand provides perfect gift along with aesthetics and added socio economic and environmental benefits.

**b. Market Demand**

Most bamboo pen stand 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 pen stand” 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 pen stand 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 earn 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 pen stands have always been made by hand and the steps involved in making of a bamboo pen stand are;

- Cutting of bamboo culms
- Making pen stand embryos (Cutting desired size of a pen stand)
- Process the outer wall and bottom of the bamboo pen stand
- 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 pen stand 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 PEN STAND

| Sl. No. | Particulars | Description | | | | |
|---|---|---|---|---|---|---|
| **A. Project Description** | | | | | | |
| 1 | Proposed Project | **BAMBOO PEN STAND** | | | | |
| 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, Miscellaneous items, Varnish/Lacquer | | | | |
| 5 | Final Product | BAMBOO PEN STAND | | | | |
| 6 | Infrastructure Required | Shed (500 sq ft) | | | | |
| 7 | Plant and machinery | Hand saws<br>Shaving knives<br>Flat/ round rasp file (set)<br>Bench Vice<br>Electric cross-cutter<br>Electric bamboo turning machine<br>Angle Grinder | | | | |
| 8 | Employment Generation | 9 Hired labour – 8 semiskilled, 1 skilled | | | | |

| **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 | 0.19 |
| 7 | **Total Project Cost** | **2.41** |
| 8 | Total Working Capital Req **(B)** | 0.48 |

| **C. Means of Finance** | | **(Figures in Rs. Lakhs)** |
|---|---|---|
| 9 | **Total Funds Required(A+B)** | **2.41** |
| 10 | TERM LOAN (75% of A) | 1.45 |
| 11 | WORKING CAPITAL (60% of B) | 0.29 |
| 12 | **Total Loan** | **1.73** |
| 13 | Equity | 0.67 |
| 14 | **Total Own Contribution** | **2.41** |

| D. Financial Benchmarks | | | | | (Figures in Rs. Lakhs) |
|---|---|---|---|---|---|
| | | **Year- 1** | **Year- 2** | **Year- 3** | **Year- 4** |
| 1 | Target Revenue (Lakh) | **10** | **12** | **13** | **14** |
| 2 | Break Even Point | **67.67%** | **56.38%** | **47.07%** | **40.10%** |
| 3 | DSCR including Principal repayment | **3.39** | **2.43** | **3.29** | **4.31** |
| **E. Basic Assumptions** | | | | | |
| 1 | Production of Bamboo Pen Stand | 8 labour will on average be able to produce 8 semi processed designer pen-stands per worker per day, working 300 days in a year. Price of one such cup is assumed as Rs 75. Only the part with nodes shall be used. Rest may be used for other craft items. Roughly 60-70 pen-stands shall be finished using the single turning machine per day. One skilled labour will work on the turning machine. | | | |
| 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 inthe Negative list under NEIDS and MSME? | No | | | |