

Prospect of Traditional Bamboo Handicrafts in Interiors

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1. Abstract:

Bamboo is one amongst the quickest growing plant, bamboo is acknowledge for its tall hollow stems which might reach their full height in mere one season and over five hundredth of the bamboo species occur within the Japanese Asian nation. The state province produces the most quantity of bamboo in Asian nation. Bamboos square measure integral not solely to the culture of Asian nation however that of the complete geographic region. The big selection of bamboo uses qualifies this cluster of species to be the one amongst foremost related to the mainstay of rural life and culture in our country. Bamboos square measure a lot of ordinarily seen within the tropics, they conjointly occur naturally within the semitropic and t within the temperate zones. Bamboo is taken into account together of the foremost economical resource. The Strength of the bamboo depends upon the species, moisture content and environmental condition factors. Seasoning of the bamboos needs to be done properly. Bamboo will take polish and paint aswell. The strength of the culms, their straightness and lightness, combined with hardness, hollowness, size, long fiber and also the simple operating qualities, makes the bamboos appropriate for a various purposes. a number of the standard uses of bamboo square measure arrows, baskets, beds, boats, bottles, bows, etc. Bamboo has been historically in use within the industry from the days old. There square measure around 1200 completely different species of bamboo varieties. the assembly of bamboo article of furniture involves completely different stages like frame creating with bamboo, blending, smoothening & sprucing. The artisans use bamboo to form stunning interior interior decoration things and article of furniture. The usage of bamboo in interiors offers a novel atmosphere.

Index Terms – Culture, Artisans, Species, ancient uses, Quality.

2. INTRODUCTION:

Bamboo is one amongst the quickest growing grass plant and has highest yielding natural resources and these are evergreen plants. The word "bamboo" came from the Dutch, Bamboo square measure a valuable gift from nature to human. In bamboo the interior regions of the stem square measure hollow and has tube bundles in their crosswise. The dicotyledonous woody vascular tissue is absent. The absence of secondary growth wood causes the stems of monocots, as well as the palms and huge bamboos, to be columnar instead of tapering. Bamboos embrace a number of the quickest growing plants within the world, thanks to a unique rhizome-dependent system. A bound species of bamboo will grow 910 metric linear unit (36 in) inside a 24-hour amount, giant bamboos square measure the biggest members of the family Gramineae. This rise and tolerance for marginal land, create bamboo a decent possibility for afforestation and temperature change mitigation. More than five hundredth of the bamboo species grows in Japanese India-Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and province. Alternative square measure states wherever bamboo grow are the Andaman & Nicobar Islands, Chhattisgarh, Madhya Pradesh and also the Western Ghats. Bamboos square measure of notable economic and cultural significance in South Asia, geographic region and East Asia, bamboo is being employed for the building construction, as a food supply, and as a flexible raw product. Bamboo, like wood, may be a natural stuff with a high strength-to-weight quantitative relation

helpful for structures. Bamboo's strength-to-weight quantitative relation is comparable to timber, and its strength is usually the same as a robust softwood or hardwood timber. These days bamboo square measure opted and square measure used for numerous functions rather than timber and oak.

3. HISTORY OF BAMBOO:

Bamboos square measure integral not solely to the culture of Asian nation however to the complete geographic region. The varied uses of bamboo qualifies the cluster of species to be one amongst the foremost related to mainstay of the agricultural life and culture in Asian nation. Bamboo has a skillfulness to semiconductor diode the coinage of such terms as "bamboo culture", "green gold", "poor man's timber", "friend of the people" and "cradle to coffin timber". In fact, bamboo is used as a substitute of timber in numerous aspects. Bamboos belong to the Gramineae family Gramineae Poaceae family Poaceae monocot family Liliopsid family} Gramineae. In India, there square measure a hundred twenty five autochthonous species moreover as exotic species of bamboos happiness to twenty three genera. The Bamboo forests occupy a region of ten.03 million angular distance, roughly 12.8% of the overall forest space in Asian nation. They are found altogether the states of the country, from the tropical to the temperate regions and within the deposit plains to the high mountains, the sole exception wherever they are doing not occur naturally is Jammu and Kashmir. Therefore bamboo is being designated as a cloth for numerous functions.

3.1 DETAILED METHODOLOGY:

Why should we need to select Bamboo?

- Appearance and magnificence.
- Durability and Repairing.
 - Easy to figure.
- Inexpensive and inventive.
 - Sustainable article of furniture.

3.2 PROPERTIES:

Bamboo is taken into account because the best resource for its Strength. The bamboo's strength depends upon the sort of species, environmental condition factors and its wetness content. Bamboo is robust, although not stronger than timbers like Sal and Teak. Seasoning is crucial for maintaining the looks and strength of bamboo product. Unseasoned bamboo is extremely at risk of fungal and insects attack, we will conjointly see the decay and mechanical degradation of product created out of bamboo. Seasoning of bamboos needs to be done properly and punctiliously as fast drying ends up in ripping. to stop cracks throughout seasoning inexperienced bamboos is also split into halves. Bamboos square measure urged to best dry in air seasoning beneath the overhead protect two to three months and another methodology oven drying beneath the controlled conditions is done with success in regarding two to three weeks. Then Bamboo is cut and split simply with hand saw. Strips of any activity is created with knife. The Immature bamboos square measure soft and pliable and that they is moulded to any desired

form. Bamboo's takes polish and paint moreover. The strength of the culms, their straightness and lightness, combined with hardness, home in size, hollowness, long fiber and straightforward operating qualities, create the bamboos appropriate for a spread of functions.

3.3 A NUMBER OF NORMAL USES ARE:

The Agricultural implements, anchors, arrows, back scratchers, baskets, beds, blinds, boats, bottles, bows, bridges, brooms, brushes, buildings, caps, caulking material, chairs, chicks, chopsticks, coffins, combs, containers, change of state utensils, cordages, dust-pans, fans, fences, fish-traps, fishing-nets, fishing rods, flag-poles, floats and flutes, flower-pots, food, food-baskets, fuel, furniture, hats, handicrafts, hayrick stabilisers, hedges, hookah-pipes, joss-sticks, kites, ladders, ladles, lamps, lance staves, lanterns, lining of hats and sandals, masts, match-sticks, mats, musical instruments, nails, net floats, ornaments, props, paper, pens,

polo mallets, rafts, rayon pulp, roofing, sails, scaffoldings, scoops, seed-drills, shoes, shuttles, slats, sports merchandise, sprayers, stools, sticks, tables, thatching, tobacco pipes, toys, tool handles, traps, trays, tubes, umbrella-handles, walking-sticks, walls, vessels and wrappers, Flower vases, Baskets, picture frames, room utensils like spoons, bowls, glasses, containers were product of bamboo and

has been historically used for varied usages.

3.4 STRUCTURAL UTILIZATION OF BAMBOOS:

Bamboo could be a extremely property material and are historically utilized in the building construction as a cloth from the days old. Bamboos ar utilized in the inspiration, frames, floors, walls, wall partitions, ceilings, doors and windows, roofs and for reinforcement in cement concrete.

- There are quite a hundred twenty five species of bamboo reportable to be occurring in Bharat, twenty vital species are tested to date for his or her physical and mechanical properties and their strength. The mean values and ranges of the precise gravity, final bending and compressive strength of bamboo in inexperienced condition ar given below.

1. Bamboo Parquet: (Block flooring):

The word parquet is employed in flooring during which strips, 3.81 cm X 6.71 cm, are cutted and arranged to get in to geometric patterns.

2. Laminated Bamboo:

The culms of bamboo ar cracked, opened up and planate into sheets, with appropriate binding and filling material. Then the sheets ar combined, lapped, arranged, glued, treated and ironed in to the specified kind. they're then cut

and cut in to the specified size and form and eventually given finishing touches mistreatment totally different polishes.

3. Bamboo-Reinforced Concrete:

The Bamboo reinforcement was initial utilized in China within the year 1919 in concrete piles for the railways. it's conjointly used for construction functions for foundation and framing works.

4. Artificially-Shaped Bamboo:

The Bamboo may be adult into desired shapes like sq., rectangular and triangular for low price housing, handicrafts, decoration things. Japan has with success adult artificial formed bamboos. the assembly of bamboo is straightforward, like moulding hollow blocks, however wants apply.

5. Medicine:

We can notice a oxide secretion within the internodes of the culms of varied species of bamboos referred to as Banslochan or Tabashir. It happens in fragments or plenty, up to two cm thick. This oxide secretion is employed as a cooling tonic and aphrodisiac, it's conjointly utilized in the treatment of bronchial asthma, cough and different debilitating diseases.

7. Deodorizer:

The dried, mature bamboo leaves ar used for creating deodorizing fish-oil in Asian countries.

8. Soil Conservation:

Many bamboos are quite helpful for conservation because of their Byzantine rootstalk system and roots.

3.5 CHARACTERISTICS OF BAMBOO:

Bamboo has highest yielding natural resource. There are roughly 1200 totally different species of bamboo and each the species and therefore the growing conditions can have an effect on the characteristics of every individual bamboo stalk. Bamboo is usually terribly sturdy. The outer layer of the bamboo stem is kind of dense and powerful. Bamboo is each versatile and elastic. As a result things made up of bamboo tend to be terribly resilient and resist breaking once placed underneath stress. Bamboo doesn't have rays or knots the method wood will, this suggests that stress applied to the bamboo can equally distributed over the surface and will increase its aesthetic worth.

favor to use hand tools to figure on bamboo. the fabric bamboo has versatile and versatile nature and this quality of bamboo makes the process and making work less difficult.



Fig:1 Shovel Fig:2 Hammer and Scissor

3.6 TOOLS AND RAW MATERIALS:

The Tools that are employed in process and making bamboo merchandise are typically the one used for wood. Since there aren't any specific tools for bamboo thus these machines aren't correct and make tons of wastage. The sliver machine wont to slice the bamboo is unable to chop bamboo per the grains direction. so the grains have cut in between and thus it reduces the strength. For this reasons we have a tendency to principally

3.7 CREATING METHOD OF BAMBOO PRODUCTS:

The production of piece of furniture involves totally different stages like frame creating with bamboo, sprucing and misreckoning with processed skinny cane. The creating of Cane and bamboo piece of furniture starts by cutting the long bamboo sticks into needed size. The bamboo is then immersed in water for two hours to soak up the wet. currently the bamboo stick is heated mistreatment kerosine lamp and it's bent as per the required form. Shaping is completed with the assistance of wood tool known as Mungri domestically. the opposite components of piece of furniture area unit joined tightly by binding mistreatment skinny cane strips. currently the various ends of the particle area unit nailed. so the frame of the particle is created then it's polished with the sand paper to get swish texture. the skinny cane is soaked in water till it attains wet. Then it's delve totally different sizes as per the dimensions of the bamboo frame. The cane is wrapped round the bamboo frame by weaving. This method of misreckoning is domestically known as asbinayi. The ends of the cane area unit joined mistreatment tiny iron nails. The trained worker creates easy motif patterns whereas weaving the cane and makes the bamboo product look additional stunning.

3.8 BAMBOO PRODUCTS:

The base of the merchandise is created of raw and bamboo sticks. the foremost ordinarily sold-out out firniture's area unit Stools, Chairs, Sofas, Tables. many properties of raw



Fig:3 Blending and cutting machine

Fig:4 Drilling machine



Fig:5 Hammer, Knife, etc Fig:6 Paint, Polish, Brush

bamboo area unit applicable for handicraft and art things and alternative various product area unit Baskets, aspect Tables, Lamps shades, Plant containers, hanging Lights, Flower vases, Pen stands, image Frames, room utensils like Spoons, containers, bowls and alternative various decorative works.



Fig:1 Bamboo furniture Fig:2 Bamboo wall partition



Fig:3Bamboo Hanging Lights
Fig:4Bamboo ceiling

4.1 BAMBOO WALL CLADDING:

Bamboo wall cladding instantly creates a unique vide in interiors. It is also a modern andenvironmentally friendly alternative option for interiors.



Fig:5Bamboo wall claddings

4.2 BAMBOO PHOTO FRAMES:

Many of the people love having their most valued pictures on display in their homes or in other user places, using bamboo as material for making photo frames create a nature inspired and unique vide in interiors.

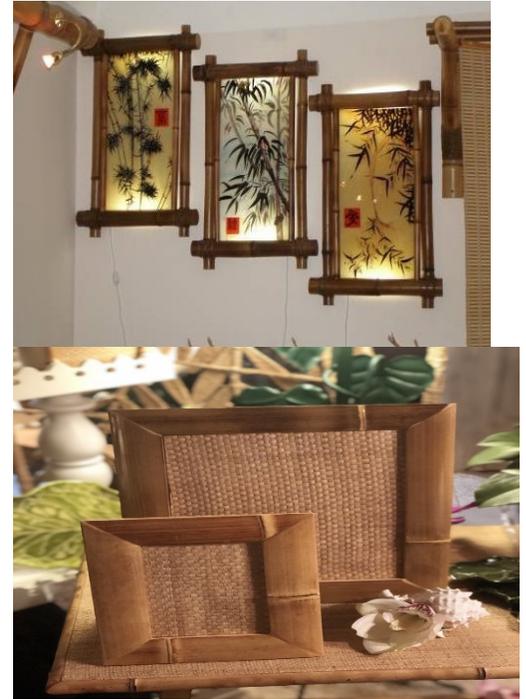


Fig:6Photo Frames made with Bambo.

4.3 BAMBOO FLOORING:

A Bamboo floor is a type of flooring manufactured from the bamboo plant. The majority of today's bamboo flooring products are originated from China and other portions of Asia. Moso bamboo is one of the species which is most commonly used for flooring.



Fig:7 Bamboo used in Flooring & Railing
Fig:8 Bamboo Flooring

4.4 BAMBOO CABINETS FOR BATH AND KITCHEN:

The material Bamboo is harder than many so called hardwoods, yet it is not wood at all. Bamboo is completely renewable, sustainable source of material which can be used in place of maple, oak and other hardwoods for applications such as plank flooring, and it is now even used for cabinets and furnitures, but it is slowly growing in popularity as a replacement for traditional cabinet materials.



Fig:9 Bamboo cabinets in kitchen
Fig:10 Bamboo cabinets in Bath

4.5 MODERN BAMBOO FURNITURE:

The Bamboo furniture's which are manufactured today is the most often layered bamboo, fused together resulting in a bamboo timber product which is unique and looks aesthetically beautiful in interiors.



Fig:10 Modern Bamboo Furniture

4.6 BAMBOO ACCESSORIES:

Bamboo is a versatile and eco-friendly material, which has been traditionally used for various purposes and bamboo accessories are an excellent decors for any interiors.

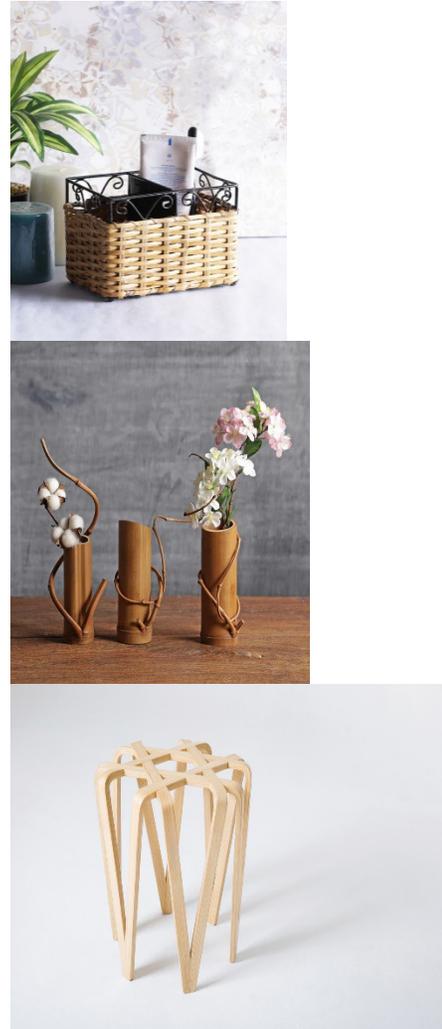


Fig:11 Modern Accessories used in interiors

5. MAINTENANCE OF BAMBOO:

To guarantee your bamboo lasts for years, don't place piece of furniture in direct daylight because the fibers can dry out and fade over time. If exposure to daylight is inevitable, flip the piece sporadically therefore the sun doesn't simply have an effect on one space.

- Cleaning is needed, use cleansing agent water and a toothbrush, and continually use a towel to dry it off.
- To spray-paint on bamboo piece of furniture, clean the piece totally, then use a paint primer to even out bumps and facilitate the base coat stick.
- Several lightweight coats of paint can produce a fair end and makes every coat dries before applying a successive one.

6. CONCLUSION:

Bamboo is a highly sustainable material and has fine texture and it is super versatile. It fits into almost every design mold. From midcentury to Modern, coastal interior theme, bamboo accents never fail to impress. This understated material deserves better than that Eco-friendly, Cost-effectiveness and easy maintenance makes bamboo furniture an attractive and best option for home interior decor. Finally, in this article, I have learned the usage of bamboo material, the making process, Traditional uses, the importance of crafts, inheritance and different kinds of arts and crafts involving in interiors.

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