

A Resort made of Bamboo & Concrete, based on curvilinear shapes & designs

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Abstract

Bamboo is an endogenous tree and is found in abundant in most part of the country. Though it is vulnerable to environmental degradation and attacks by insects and moulds, its durability can be enhanced with preservation condition, treatment and curing thus increasing its service life greatly. An engineered Bamboo can substitute steel in making tensile stresses of RCC members and also reduces the consumption of cement in building. Both cement & steel are the most dominant & energy intensive materials used in construction.

So, I am going to design a resort near a sea beach, which will made by a combination of concrete and bamboo and the main attraction of the project is the building will based on curvilinear shapes and design, and it will follow Eclectic theme.

Keywords: resort, bamboo, concrete, curvilinear, eclectic.

Introduction

Housing is one of the human basic needs apart from food and clothing. Everybody has the right to occupy a comfortable house. The reason is that house plays an essential role in human life. Without house humans cannot live comfortably as it importantly contributes to the daily human health, meaning that the indoor and outdoor human activities are also determined that their houses are comfortable.

Background of the study:

Bamboo is already used in many architectural structures as –

- a) Main structure material: where bamboo is used in every part of the structure (statue, building). Example-The town of Bayambang in Pangasinan bagged the Guinness World Record for the Tallest Bamboo Sculpture: the 50.23-meter high statue of the town's patron, Saint Vincent Ferrer. House in Paranaque – Philippines. Bangkok Hair Salon – Thailand.
- b) Decoration material: Where bamboo is used as decoration material. Example-false ceiling, window frame, railing etc.
- c) Combined of structure and decoration material: Where bamboo is used as structure material and decoration material also. Example-Yoka Sara International's Kayu Aga, Bali.

Purpose of study:

Above all the types of bamboo building there is no such building which is made of a mixture of bamboo and concrete depending on curvilinear shapes.

To create a unique piece of art.

To propose a style of using curvilinear shapes in interior design.

To give a different staying experience to the guests of the resort.

Research Gap:

Design can be tricky, which makes the building costs higher.

Expected Outcomes

- People from the design field can stay at the place and take inspirations from the hotel interior to design their own space.
- The curves in interior design help to decor the living space more gently and delicately.
- Creates a feeling of cosiness, safe and creative at the same time. The curve brings the sense of cosiness, safe, comfort and creativity.
- The building will be a masterpiece of art in itself and will arouse the emotions from visual impression of the users.
- Circular, round shapes gives the opportunity for a conversation, communication.

Literature Review

Literature of the project will be depended on the following objects:

Theme: Eclectic design style will be followed.

Materials:

- Bamboo
- Concrete
- Wood
- Marble
- Lather
- Tiles

Colour Scheme:

- Teal
- Ocean
- Honey
- Peach

- Clay
- Sage

Conclusion

This design research of a resort, which is based on curvilinear shapes and designs made by a mixture of bamboo and concrete, will help in many design progress.

This building will follow Eclectic design style.

The guests of the resort will feel safe and calm because curve give the feeling of safe and calmness.

Rounded shapes make the furniture look comfortable and inviting. The rounded furniture seems to give off that calming feel.

References

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