

Nature Approach to Architecture

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Abstract—*Nature is sustainable, symbiotic self sustaining recycling non polluting in its existence .Nature nurtures its users takes care of itself. Similar approach to architecture will lead to non pollution self sustaining existence of man on earth. Construction industry is one of the biggest polluters of environment. This paper highlights various approaches to sustainable architecture. Various elements had been put forth in this papers that together lead toward sustainable environment. Various issues in architecture have been discussed to highlight issue of sustainability.*

1. INTRODUCTION

Human being is part of nature, it is one of the elements of natural existence like different forms of landscape plants animals water bodies landform etc nature in existence maintains a balance in every form everywhere every context that is. It controls the existence of every life form, for maintaining balance we human beings are supposed to be wisest of these beings who had created their own world of artificial materials landforms etc this has its impact on nature leading to pollution at all levels of natural existence.

Need

Therefore it is very necessary that we should design our built environment keeping in view the nature existence so that impact on Nature is minimized and we leave this earth much livable place for generations to come keeping in view the above thought this paper highlights various approaches that had been adopted or can be adopted to achieve our aim of nature approach to architecture

2. CASE STUDIES

Amazon Seattle headquarter biosphere workplace of the future-- The original inspiration for the gardens in part came from a survey conducted some years ago which looked into what benefits Amazon's employees really wanted. Research indicated a key thing missing was a link to the natural world, so they went all out with their solution. Touted as the "workplace of the future", the biospheres will host more than 300 plant species from around the world - an environment so lush it requires a full-time horticulturist on-site. The idea is that Amazonians will take breaks from their desks to walk through the gardens over suspension bridges and meet with

others in one of many conference rooms floating between the tree tops to brainstorm and conceive of their next big idea.[2]

Auer World Palace Germany

Constructed in 1998, the Auerworld Palace in Auerstedt, Germany was their first "willow palace" project, taking the efforts of 300 volunteers to build. The palace is now 10 years old - their techniques, however, are ancient. The Sumerian reed houses of Mesopotamia were famous for their construction of tightly bound reeds, and in Europe smaller outbuildings have been made of woven plants and trees for hundreds of years. Most of these are built from green branches, though. In this case the whole tree is woven in place to form a living structure.[1]

Living bridges In Meghalaya

At over 50 meters in length, the longest known example of a living root bridge is near the small Khasi town of Pynursla, India. There are several examples of double living root bridges, the most famous being the "Double Decker" root bridge of Nongriat Village.

In Japan vine bridges had been built across IYA valley 43 M long. Using the roots of the Ficus elastica tree (rubber fig tree), the residents have woven an elaborate system of living bridges, some of which are thought to be over 500 years old. These extraordinary examples of living architecture are also lessons in patience, since they take about 15 years to grow.[3]

In Indonesia Jembatan Akar bridge

For the last hundred years, the residents of two tiny Indonesian villages in West Sumatra have used a 30-meter-long bridge formed from the interconnected roots of two trees located on each side of a fast-flowing river, to reach each other and trade supplies. Today, the natural wonder known as "Jembatan Akar" has become a popular tourist attraction.[4]

Green School and village, Bali

It is a concept where buildings are grown. living plants and trees make and form the buildings. The buildings are pure organic nature based elements building materials, highly sustainable, zero pollution, nil energy consuming.[5]

3. DISCUSSION

The aim is to architect the nature way of existence nature is self sustaining self-reliant no garbage zero pollution Symbiosis reuse recycle rejuvenate energy efficient maintenance balance the materials that can be used to build houses can be living trees since they will regulate temperature relative humidity and give high oxygen pollution free environment also VOCs volatile organic compounds other pollutants will be absent leading to a very healthy existence

4. CONCLUSION

We should follow nature in eternity to exist we should coexist with nature 100% nature based spaces should be created for healthy existence.

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