

Project name: -

T.I.N.P

TUTTI ISLAND NATIONAL PARK.

Project definition:

-a complex designed to initiate ecological conservation at all levels.

Why is this project needed?

- One of the outstanding features of T.I.N.P is the existence of the four classified climate life zone found in the world the only climate not presented here is the desert climate . because it's a little like the local climate

-Sudan's environment is rapidly deteriorating because of desertification, diversity loss (extinction of plants inside Sudan), global warming, pollution and droughts. Lack of awareness in Sudanese people increases the problem and prevents them from participating in international efforts to solve them.

Therefore, the project goals are:

General goals: -

-To provide a unique entertainment experience to boost ecotourism in

Sudan

- To motivate people to be eco-friendly & save the environment.

- To educate people about ecology & the environment, thus raising awareness and interest in this field that is generally neglected in Sudan.

- finding Solutions and developed to some plant problems that we face plant.

Special goals: -

-Researcher planning and design capabilities through the development of this project.

Architectural goals: -





-Worked planner and designer for the project on the basis of geometric and free of problems and in line with the job.





-increasing the Architect's role in participating in the development of his country economy through the work of such projects.

Economic goals: -

- Contribute to raise the Economy country by increasing production plant.
- Contribute to the provision of natural medications extract of medical plants and replaced by chemical drugs Imported from abroad.
- Contribute to the country's economy by reducing electricity consumption using alternative energy in the project.
- producing Largest amount of rare plants and medicinal and aromatic plants through propagation laboratory and genetic.

How can the climates be presented in an interesting way?

- Visitors need an introduction to prepare them for their Tour while also providing a background to understand it faster as the go through it ,a 3d video simulating a journey through this climate would be suitable.
- Each visitor must be able to touch ,smell ,see ,and feel each climate plants &weather.(A CLOSED bio-dome can simulate that while also provide control).
- Each group of visitors will be given interactive classes where they are given stuff to work with during the lesson .including:
 -  Planting :each visitor will take a seedling, plant it and take it home
 -  Electricity :products that reduce the electricity consumption are shown and how to use them ,some are given free while others sold.
 -  Water :plumbing lessons to fix water taps ,selling water saving products
 -  Reusing :how to turn plastic bottles into vases ,old clothes to bags...etc.

-  Recycling :how to sort waste ,while also selling color coded trash bins
-  Reducing :how to reduce consumption of non-renewable resources
-  Energy & pollution :promoting using bicycles and reducing coal use.
-  General behavior :stimulating behaviors that make the community eco-friendly ,whether by organizing neighborhood cleaning campaigns, cruelty , encouraging sustainable buildings etc...

project importance: -

Given the importance of vegetation in the life of every living creature , especially of human came to think in order to keep this great legacy in our hands, especially that of our beloved country from the world's most famous a lot of types of rare plants and which are of great importance in human life, whether economically or Medical from this point the idea was to establish an ecological center of plants from which we seek to provide all the appropriate conditions to maintain these plants from extinction.

The motives of selecting the project: -

general motivations:

- attract tourists and interest to the country.
- Lack of awareness of the importance of vegetation that characterized him and our country through which we can be one of the richest countries in the world if we or the state interest in this area.
- Contribute to taking the field of agriculture, however, to regain its position through its contribution to the establishment of human lectures throughout the ages.

Special motivations:

- The need for such entertainment and educational projects in the country
- Enabling people to live the experience these climates without paying for expensive travels

To fulfill all of the above the project design challenges are:

Design goals: -

Function: -

- Interactive yet safe environment for visitors.
- Smooth flow between spaces allowing flexible circulation based on the users' needs like food and rest.
- Providing sufficient space for plants and people in the building.
- providing service to the plants without disturbing the visitors.
- eliminating boredom by changing the learning media and using the element of surprise

Form: -

- To design an attractive building that can compete internationally.
- to internally create the possible closest feeling to natural experience.

Technical: -

- to mimic the temp, humidity, sound, light, & odor of nature.
- to safely create huge columns free exhibits that can tolerate time &erosion.
- to control excessive, the heat built up from the greenhouses.

Sustainable: -

- To make the building Self-sufficient electrically.
- To eliminate waste & recycle all of it.
- To reduce the impact of the building on the surrounding.

Economical: -

- to reduce the bill of electric.

- to design structure that can be efficiently stable without unnecessary cost to support it.
- to achieve high turnout rate by attracting a lot of visitors while also providing retail services to increase profits