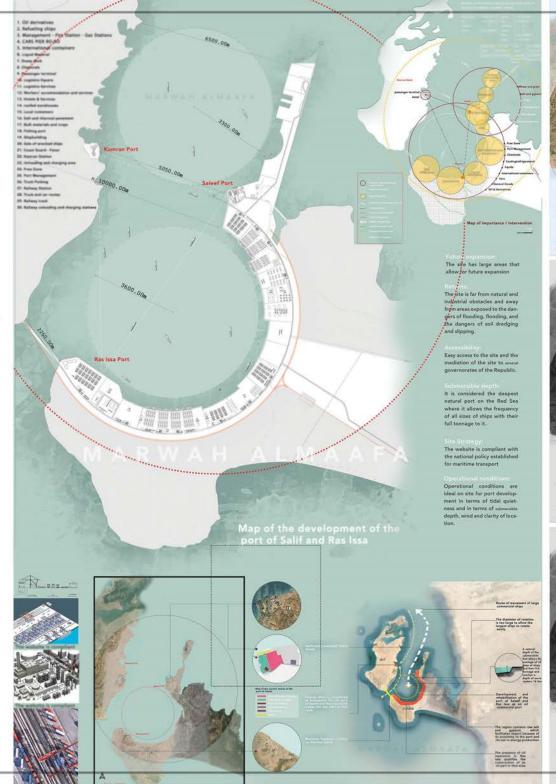


Features and characteristics of the project sit:

- The project is located in Yemen Al-Hodeidah Governorate in AlSalif, Ras issa and Kamaran island, which is close to international shipping lines.
- The site features safe natural features and natural depths suitable for gaint ships of new generation.
- The project is characterized by natural breakwaters and wide areas for safe movement and circulation of ships where the estimated (30) square Kilometers.

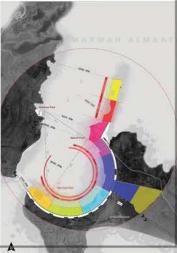
Logistical services and competitive advantage provided by the project :

- The project is functionally classified as a commercial oil industrial - tourist port.
- Designed to be comprehensive with specialized departments for multi-purposes and fields in logistics services . such as accommodating containers, liquid, bulk and oil materials, and providing docks for maintenance and shipbuilding .
- Integrated automation technology for port management and digital governance of operations has been introduced.
- The project includes the construction of advanced railways that help reduce the time spent in loading and unloading, which increases port efficiency, increases safety and security measures, and reduces logistics costs.
- The project has a competitive advantage in the transformation of maritime transport and logistics services to regional and international ports in terms of location, area and designs that meet the future requirements for logistics services on the Maritime Silk Road.









PASSENGER TERMINAL ON KAMARAN ISLAN







THE CONCEPT:

The idea came from the fact that the port is considered the gateway for the entry and exit of people from all over the world and their different nationalities to and from the island So the island was expressed in an urban place and protected with a glass cover because it is a natural reserve and has a natural diversity.

The orientation of people to it was expressed in arrows of dif- fact that most travel to the ferent sizes, shapes and directions to express different types of people and was embodied on the mass.

And also the idea was applied to the public site in the same way.

REFERENCE:

Passenger terminal function And the nature of Kamran Island

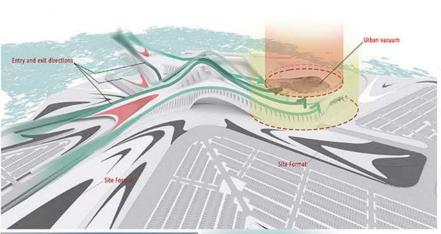
ABSTRACTIONS:



Patern was made inspired by the scales of marine organisms by virtue of the island is considered as an outlet for travelers and for the purpose of pleasure



Kamran Island was embodied in the protected urban vacuum

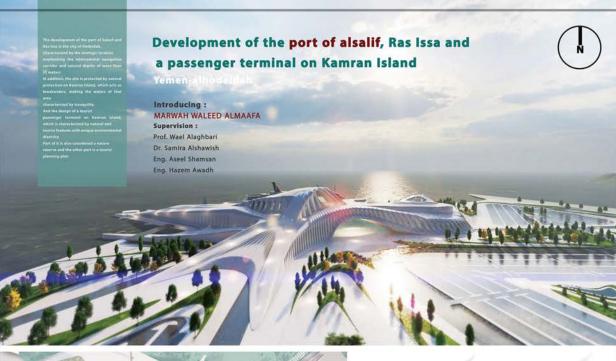




Embodying the entry of people from different places through the station



Embodying the idea on the format of the site plan







ENVIRONMENTAL ANALYSIS:

Sustainability was applied using on-site solar panels as a shading for parking lots while at the same time utilizing sunlight in power generation for the plant.

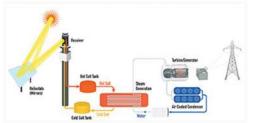
Turbines have also been used to exploit wind power in power generation.

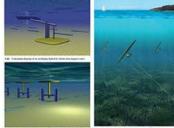
Tidal and wave movements have also been used to generate power.

Since the region is characterized by its wealth of raw salt, it has been employed as a way to store thermal energy to retain energy collected from a solar tower or solar basin so that it can be used to generate electricity in adverse weather conditions or during the night.



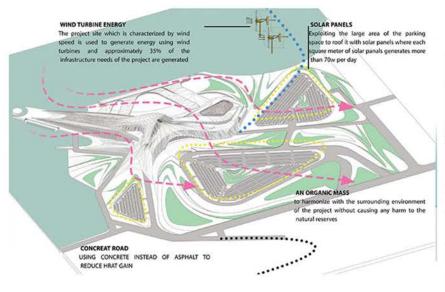




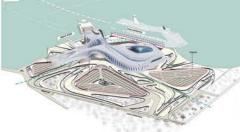


The use of dissolved salt in energy storage

The use of tides in power generation













STRUCTURAL:

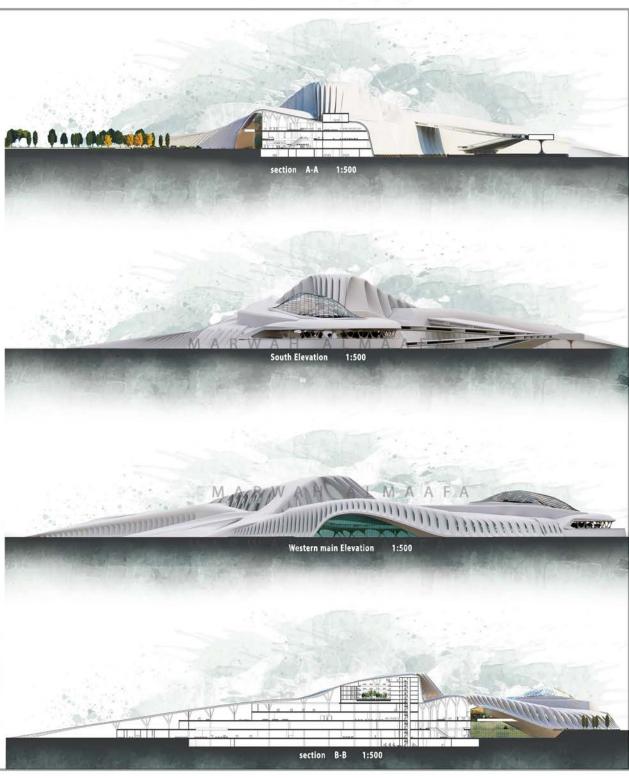
The gable system was used in the envelope of the building and the structural system in the floors

The Freinder system was used in the tiles to withstand 20*20 meters of spans. This type of system was used in the design of the role inside the slab itself

As for the tower, a transformative role was made for the columns to move some columns in proportion to the shape of the tower and the loads to be converted

Finally, the building was encapsulated in Space Frame, which is supported from the .sides by the floor tiles. It is supported from above by tree columns





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