

KISH ISLAND MARINE SCIENCE CENTER AND DESIGN TIPS

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ABSTRACT

Considering its natural and ecological situation, and locating in Persian Gulf as the only Iranian coral island, having extraordinary sceneries, having environmental and marine conditions, Kish Island has provided a great opportunity to improve tourism industry of our country in a competition with various countries and can play a remarkable role in improving our country both scientifically and economically. This article is investigating the necessity of establishing a marine science center which is particularly studying and improving modern marine technologies, providing scientific services for optimized exploitation of seas and coasts, managing marine scientific activities, leading these targeted activities to optimized exploitation, and sustainable protection of seawater. Therefore, establishing such complex can play a significant role in our countries' economy and tourism industry. In order to implement this project, after many studies and collecting data from library references and also field observations, some analysis have been done based on shape, content and space of the data collected and finally the location of the project is determined so that it would be responsible for various needs and targets of the project. At the end, according to the defined design principles and providing proposed concept, we started to design and providing the proposal and then we reach to conclusion.

KEYWORDS: Kish, design, Marine

INTRODUCTION

Based on its geographic location and variety of biological species, Kish Island is known as a perfect example of biological characteristics of Persian Gulf's region. This is obvious that by focusing only a part of scientific studies on Kish Island's coasts we can create a good platform for future development of the region (Ahmazenejad, 2006). Undoubtedly, valuable coral masses and shells, existence of very beautiful species of aquatic, unique fossils, marine creatures, and also other geological impacts that the nature has made them exposed over so many years is counted as a natural treasure and deserves value and we can use them to improve awareness level of visitors and attracting as much tourists as possible to the region and Kish island. Sciences related to seas and oceans, or oceanography, though having a history more than a century, it is still in the beginning of its improvement way because of complexities in accessing to its different parts. Exploiting seas and oceans is of paramount importance in the world today from some special viewpoints such as; transportation, business, food and medicine resources, mineral resources and security of their neighboring countries (Afsharsistani, 1991). By taking into consideration important viewpoints mentioned above and also the point that more than 2700 km of our county's borders is consisted of coastlines of Caspian sea, Persian gulf and Oman sea, existence of an active national institute working in various fields of marine and oceanic sciences is always of strategic importance in Islamic Republic of Iran (Geography Organization of Army Forces, 2004). Effective management of seas and oceans needs enough knowledge and correct understanding of natural processes and mutual reactions among sea, land and the human which can be obtained through measuring and studying this environment. Therefore, establishing institutes related to marine sciences can improve knowledge level in marine fields while improving tourism industry and economics.

RESEARCH CENTER

People usually know tourism as visiting historical monuments and antiquities. However, undoubtedly, marine sceneries and marine events are known as one of the most attractive fields of tourism industry and causes economical progresses and so is highly regarded. Kish island is known as one of the most strategic regions in the Persian gulf which has been highly regarded by people and the government and ignoring this region will lead to its destruction and decrease of investment rate in the island. Considering its natural and ecological situation, and locating in Persian Gulf as the only

Iranian coral island, having extraordinary sceneries, having environmental and marine conditions, Kish Island has provided a great opportunity to improve tourism industry of our country in a competition with various countries and can play a remarkable role in improving our country both scientifically and economically. Studying on corals and mollusks and basic marine studies and its environment, will definitely provide us with precious results on marine issues. Therefore, it should be emphasized that establishing such institute which is specialized to study and provide modern marine technologies, scientific services for optimized exploitation of seas and coasts, improving sciences relevant to marine sciences, and providing special courses such as training experienced staff, could play an important role in our countries tourism industry and economic growth. This institute can also work on breeding precious and valuable aquatics such as pearling shells and corals. Generally, the main purposes of establishing such institute are such as:

- 1-Establishing experimental research center parallel to coastline, in its natural location in order to improve knowledge and experiment level of students and researchers.
- 2-Dedicating a place to holdaquatics exhibitions and also creating educational workshops for different kinds of visitors with different ages.
- 3-Establishing a dynamic and precious marine research center to correspond with universities inside our country and also abroad, in order to explore and introduce valuable coral resources and also scientific subjects.

FIRST SPEECH

1. Site Analysis

Geographical location

Our mentioned site is located in north-eastern part of the island and is continued along north to south.



Figure 1. Location of the site

It overlooks the historical mosque of Mashe from the south, it overlooks the avenue from the north, it overlooks the sea from the east, and it overlooks lands belonged to Kish Free Zone organization from the west.

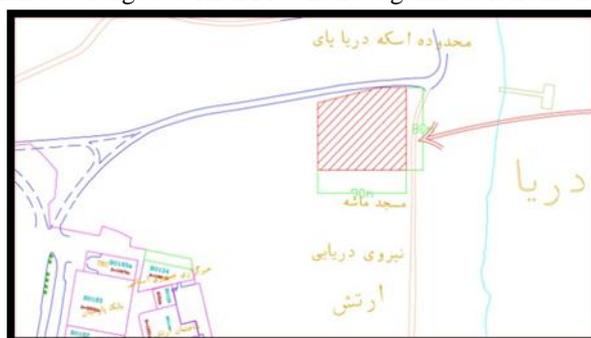


fig2. Location of the site

2- Boundaries of the Site

The project is located on a 7200 square meters land with the length of 90 meters and width of 80 meters.

3-Accesses

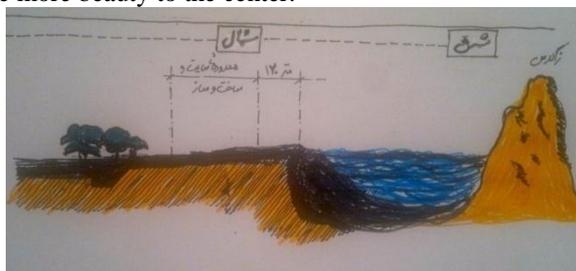
The main entrance of the site is located on its northern side overlooking the street and entrance roadway is also built on this side. The mentioned street divides into two branches at the end of it, the right way joins the main one-way street passing beside Kish Free Zone organization and in fact is the exit way, and the left way joins to Sanaee street which is also a one-way street and is the entrance way. In addition to these ways, there is another entrance way parallel to the main entrance located in the back of the office building which is in the same direction of pedestrian way and roadway.

4-Neighboring locations:

This project is located in the vicinity of University of Applied Sciences (Elmi-karbordi University) which may also be very helpful for the institute to have close relationship with their students. The existence of Kish Free Zone organization in its vicinity can also create close relationship between these two centers. Amir almomenin mosque located in the vicinity of this center can create appropriate connection between people of Kish and this center. Also Mashe mosque located in the vicinity of this research center can be a factor of attracting tourists.

5-View and Perspective:

The site is located on the north-eastern edge of the southern coasts of Iran, overlooking the sea and a little farther from Zagros Mountains that also cause more beauty to the center.



View and perspective of the site

6-Lands Slope and Topography:

Northern areas of the island have harmonic in depth reduction and also have relatively flat bed or concave profile. The slope of continental shelf in this part of the coast is between 0.4 to 1 percent which in fact has the best topographic conditions to access to depth of more than 5 meters, and the distance of depths of more than 5 meters to the coastline is less than 200 meters. Beaches of this type which are called as sandy beaches with wide width, generally can have recreational, sporting, and tourist attraction usages, and also have the most hinterland development. Kish Island also has taken the advantages of these beaches which are mostly located on its eastern beaches and therefore they have had the most development among other regions. Our site's land ends to the sea with a gentle slope which is also appropriate in accessing the sea for researching projects.

7-Natural and Artificial Terrain

There is low-density coverage of small shrubs and also few of mesquite trees in the eastern and southern parts of the site (Kish Free Zone Organization, 1989). There is dense coverage of mesquite trees in the northern part of the site which has made great sceneries. In addition to natural terrain, we can mention to Mashe mosque as an artificial attraction located in the vicinity of the center.

8-The Idea Formation Process

The primary design was inspired by a bulb shape. For that purpose you can imagine some bulbs located beside each other can create such a new design of plan.



Figure 3, primary design



Figure 4, primary design

Therefore, three bulbs located next to each other have made the primary design of the plan and in the next level, the primary plan was designed.

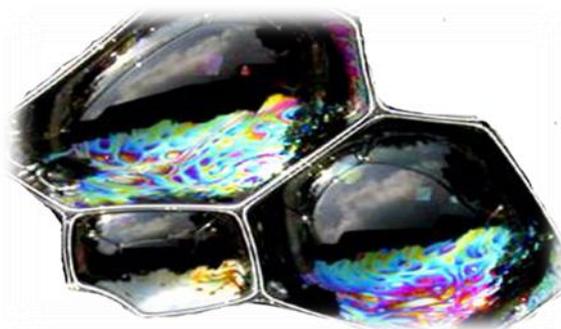


Figure 5, primary design



Figure 6, primary plan designed

Since the plan is including three semi circles inspired by bulb's shape, then it seem to be necessary that volume and shell of the project should be performed as modern and different, so it crossed my mind that the roof of it should be a combination of small and big bulbs with waves so the first sketch was designed as below

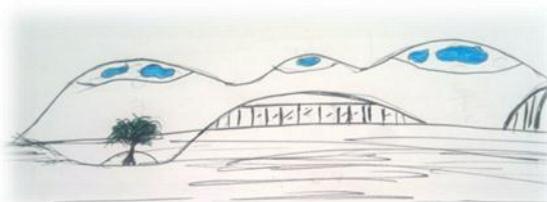


Figure 7, the first sketch

CONCLUSION

This research is conducted due to urgent need to create and build marine sciences research center in tourist island of Kish.

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