

Chapter 6

DESIGN APPROACH

6.1. General Concept Approach

a. Sustainable

Due to its location on the ocean, the building will have to use alternative energy to power the facility and fulfill the users' daily needs. It won't need the help of powerplants in the area. This will reduce the carbon footprint in atmosphere.

b. Floating

The presence of coral reefs in the site pushes the building to implement the use of floating structure therefore the building will rely heavily on the buoyancy of the structure.

6.2. Users Concept Approach

Using the "of the people concept" the design of the building will be started by designing the floor plans first. The form will then follow.

6.3. Environment Concept Approach

a. Floating structure

To allow easy access for animal transports in the area, the building will be using a floating structure moored using mooring systems embedded in the seabed to hold the building in place. This will cut the duration of animal transports, avoid reefs' damage, and respond to the rising sea levels in the area.

b. Adoption of alternative energy

The building will make use of fuel cells that consume natural gas.

c. Self-supporting facility

With the lack of utilities in the area such as clean water, electricity, and waste, the building will provide supporting facilities to produce energy for the users and environment.

d. Environment protection

As the area is filled with coral reefs and marine animals, the building will maximize the use of floating structure including the supporting facilities and breakwaters. This will affect the coral reefs in the area to have a better temperature in the ocean, creating a healthy habitat for the coral reefs.

6.4. Theme Concept Approach

a. Building as nature

The building will try to imitate the form of the shark, along with its façade.

b. Continuous present

The building will never be finished, it can be developed again in the future or to be expanded.

c. Form follows flow

The form of the building will be influenced by the flow of the wind in the site.

d. Of the people

The users of the building will be the first step as the design basis.

e. Of the materials

Materials of the building will minimize the use of paints so that the materials can express their qualities themselves.

f. Youthful and unexpected

The designer will use his imagination to create a story of his adventure of understanding the sharks, therefore the contents of the imagination will be implemented in the design.

g. Living music

The form and structure of the building will always be repeated in the design.