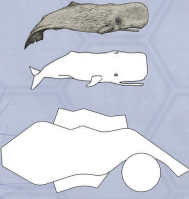


Project philosophy:

Because the land was chosen on the island of Ibbar, it was better to design the project in proportion to the surrounding environment, which is the seas and their creatures, and to give a sense of the island and its marine surroundings.

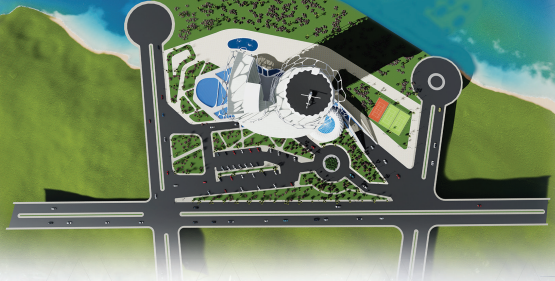
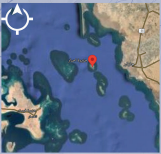
Concept Philosophy:

The first design idea was the whale and it was developed until it became what it is.

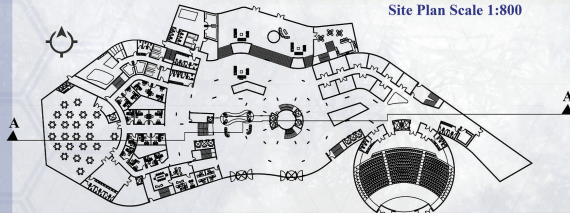


The project Location:

The Kingdom of Saudi Arabia, Jazan, is the island of Ibbar, located between the city of Jizan and the island of Farasan Land area 61000 square meters.



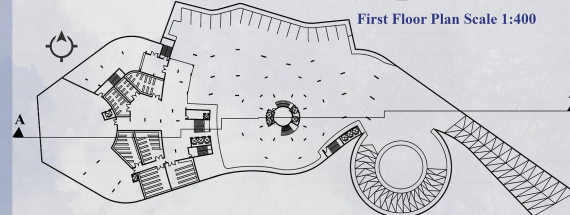
Site Plan Scale 1:800



Ground Floor Plan Scale 1:400



First Floor Plan Scale 1:400



Basement Floor Plan Scale 1:400

Ground Floor:

- Reception
- Cinema
- festival halls
- Shops
- chapel
- Management
- public service offices
- Men's Care Center
- Women's Care Center
- Enough the lobby

First Floor:

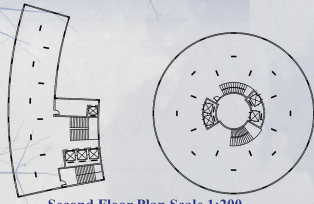
- 6 restaurants
- 2 coffee shop
- Businessmen service offices
- Cinema
- meeting rooms

Basement floor:

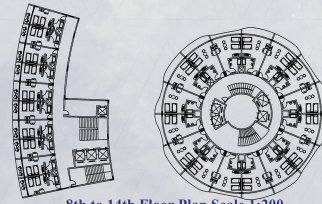
- car parking
- kitchen
- washing machine

Typical Floors

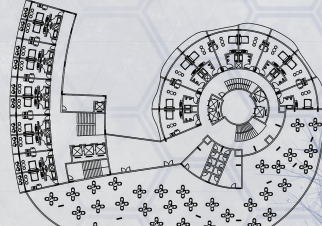
- from 3rd to 7th single rooms
- Round from 8 to 14 double rooms
- Round from 15 to 19 family suites
- Round from 20 to 22 Restaurants and family suites
- Round from 23 to 25 Presidential and Executive suites



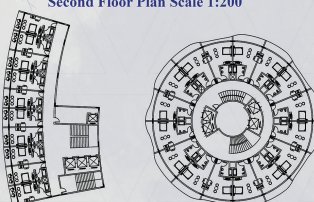
Second Floor Plan Scale 1:200



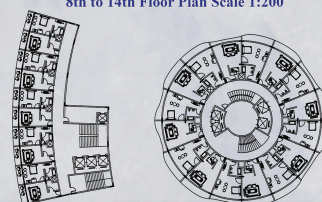
8th to 14th Floor Plan Scale 1:200



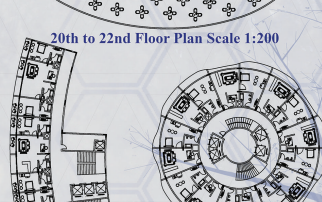
20th to 22nd Floor Plan Scale 1:200



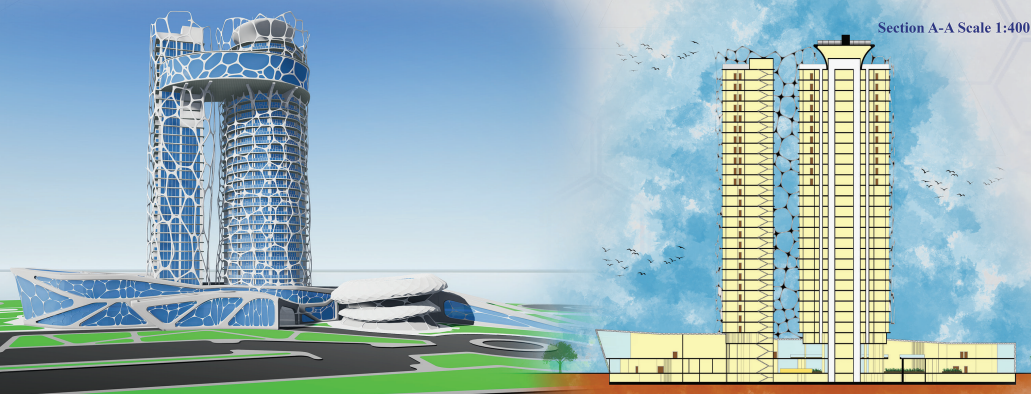
3rd to 7th Floor Plan Scale 1:200



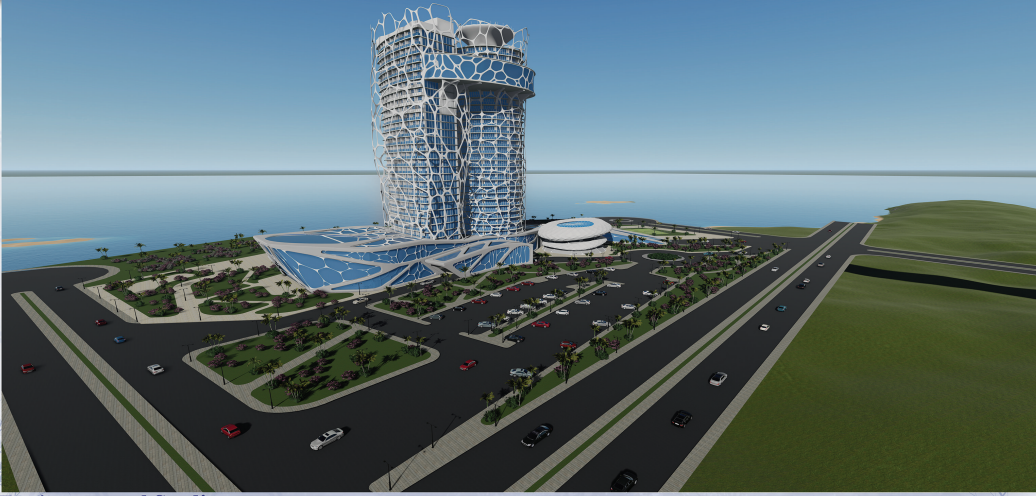
15th to 19th Floor Plan Scale 1:200



23rd to 25th Floor Plan Scale 1:200



Section A-A Scale 1:400



Environmental Studies

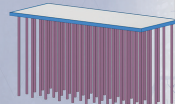
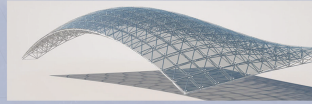
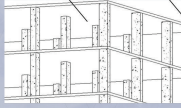
1. Solar panels were used on the roof of the building to provide electricity and conserve energy
2. Green plants were planted around the building to reduce heat transfer that affects the building
3. The building is insulated with Stee Solar Gard Stainless Steel panels that are a widely accepted solution to sun related problems. These shades of gray have a low reflective quality, making them a natural complement to most interior and exterior color schemes. The metallic adhesive laminations and scratch-resistant coating used in this series provide outstanding performance with durability and durability Reduced summer solar heat gain: up to 70%

Total solar insulation up to 75%

Visible light transmission up: 48%

Glare Reduction: Up to 90%

UV Reduction: Available in these grades: >99%



Lighting studies:

L=35.3m W=16m H=6m

N. of Lamps in (W)

H of lamps = 6 - 1 = 5

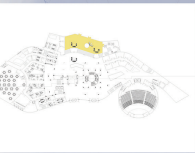
5 - 0.4 = 4.6m

N. of lamps in w = $W/h = 16 / 4.6 = 3.47 = 4$ lamps

Nof Lumen In 1 Lamps

$d = W / (\text{Nof Lamps}) = 16 / 4 = 4$ m

$a = 1/2 * d = 0.5 * 4 = 2$



HVAC SYSTEM

$V = L * W * H$

$= 4.3 * 3.8 * 3 = 490 \text{ m}^3$

$(L * W * H * 300) / (12000 \text{ b} + n) = 1.22 \text{ ton Ability}$

12000 b + n = 1 ton Air-conditioning and convection capacity determination unit

$300 = 1 \text{ m}^2$ Air conditioning unit

1 ton = 1.5 horse

$1.22 * 1.5 = 1.83 \text{ horse}$

The right air conditioner to cool the room

N of lamps in (L):

N of lamps $L = L / h = 35.3 / 4.6 = 7.7 \text{ m} = 8$ lamps

$d = L / N$ of lamps = $35.3 / 8 = 4.4 \text{ m}$

$a = 1/2 * d = 0.5 * 4.4 = 2.2 \text{ m}$

Lux and lumen

The lody need to 200 lux in 1 m^2

$A = 546.33 \text{ m}^2$

Lumen = Lux In $1 \text{ m}^2 * A$

$= 200 \text{ Lux} * 592.56 \text{ m}^2$

$= 118500 \text{ Lumen}$

N of lamp in Lody = 32 lamps

N of lumen in 1 lamp = lumen of A / N of lamps in A

$= 118500 / 40 = 2962.5 = 3000 \text{ lumen}$

$= 272400 / 76 = 3584.2 \text{ Lumen}$

