

ARCHITECTS' SYNDICATE

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Received: 30.03.2020

Revised: 28.04.2020

Accepted: 01.06.2020

Abstract

Architects syndicate is an important subject owning a lot of advantages that can arrange and save architects life and make them more comfortable. The benefits of having a new syndicate that offer lot of services is needed covered the educational project and provide many joyful functions. Therefore, this study introduce a new building type that serves the terminally architects and businessmen by creating a building that is designed and prepared to meet their required needs. This study also considered three advance and unique proposed office building located at Saudi Arabia, North Carolina and Syria for case study purpose. The program assumption for this project was designed carefully and the area of each zoning is defined. The zoning of this project consists of office building, syndicate building, restaurant and café as well as open space and landscape. Based on the site criteria analysis on accessibility, land use, security, view, existing natural elements, interaction with community and visibility, the proposed location for this project is in Jeddah at Al-Baghdadeia Al-Gharbeia district.

Keywords -- Architects' Syndicate, Architects, Businessmen, Office building

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DOI: <http://dx.doi.org/10.31838/jcr.07.08.45>

INTRODUCTION

Syndicate can be defined as a group of people from a particular major, sharing common interests, and working within specific laws to be agreed upon with the syndicate [1, 2]. It owns independent powers to find solutions for the members and to cover their needs. Difference between syndicate and association is the desired goal. The goal of Syndicate is concentrated on defending the professional interests of the participants, while the target of the association can be any cultural purpose, scientific or sports or medical emergency.

One of the famous existing syndicates is the American Institute of Architects (AIA) which is a professional organization for architects in the United States, Headquartered in Washington, D.C. [3]. The AIA offers education, government advocacy, community redevelopment, and public outreach to support the architecture profession and improve its public image [4]. The AIA also works with other members of the design and construction team to help coordinate the building industry [4]. More than 83,000 licensed architects and associated professionals are members [5]. AIA members adhere to a code of ethics and professional conduct intended to assure clients, the public, and colleagues of an architect's dedication to the highest standards in professional practice [5].

The syndicate for architects is a building that cares for collecting a huge number of architects with high quality. It will help architecture students to be prepared to the real life work by providing workshops and events to improve both graduated and under educated students. In addition, entertainment and joyful function will be added to catch attention of architects. Members on syndicate of architects will visit the building for work and to gain some joyful times. While other syndicates focus on low and educational function with the ignorance of entertainment needs of architects. Therefore, this study proposed a Architects' Syndicate building to develop in Saudi Arabia.

CASE STUDY

Three unique proposed office building located at Saudi Arabia, North Carolina and Syria were selected for the case study.

All selected buildings are designed sensitively to create a comfortable workplace. They are namely:

- a. Saudi Council of Engineers
- b. AIA NC's New 'Green' Headquarters / Frank Harmon
- c. 136-Engineer Syndicate Office Building

Saudi Council of Engineers

The building of Saudi Council of Engineers is designed by Aye Design (Figure 1). The building has 4 floors height with total building surface area of 6616m² and the operational surface of the council about 3811m² [6]. This building has several council departments and the largest is Engineers Club and Multi-purpose hall, both with surface area of 524m² each. Follow by, Engineering Arbitration Department and Professional Accreditation Center with surface area of 472m² and 344m² respectively. Others council departments such as Engineers Development Department, Customer Relations Division in the first floor and Customer Relations Division in the ground floor with surface area of 257m², 172m² and 126m² respectively [6].

AIA NC's New 'Green' Headquarters

The architect of AIA NC's New 'Green' Headquarters building is Frank Harmon, located at Raleigh, North Carolina (Figure 2). The building's open floor plan features two main rooms on the ground level and a continuous open office space on the top floor. The open plan is meant to evoke a sense of community among occupants, and it also makes temperature and lighting control more efficient [7]. This project has presented important aspects in designing an association. The aspect is the site selection which offered natural elements to the project. The curtain wall and roof of the AIA North Carolina chapter's new headquarters will project beyond the building envelope to create a sheltered entry porch (top). An earth berm surrounds the building's southwest corner (middle). In addition to a green roof, to help regulate the building's indoor climate, its orientation allows for natural ventilation and day lighting (above). The use of materials has provided a sense of harmony between the project and the surrounding environment [7].

136-Engineer Syndicate Office Building

Ark: Abdalrahim Kassam is the architect for the project of 136-Engineer Syndicate Office Building, located at Latakia, Syria(Figure 3). The design concept is based on different intersections between lines which have been stimulated from the movement of a human carrying a rock as an indication of the labour and toil being a builder and architect. These intersections are meeting to be the window's frames of the building which unite the continuity of the horizontal and the vertical visual expressions of the design, mending the boundaries between the inside space of the building and the outside space making the façade a dynamic focal point to the most important aspects of the city [8]. As the structure is the giver of light it creates a character through the building to the outside space, a contrast between lights and shadows. Each space is a unique entity itself yet it gives the feeling of lingering, moving from room to room would leave one space and even though entering another. There would be an enduring trace of the one you had entered a moment ago. The project design is a tower consists of two basements and 20 stories of a height of 73m above ground level [8]. The proposed structural system of shear walls and surrounding composite sections connecting the external walls to the skeletal facade of the building creating a wrap which is constructed of steel and concrete joint together in sections of 110-180cm, depth 40cm [8].

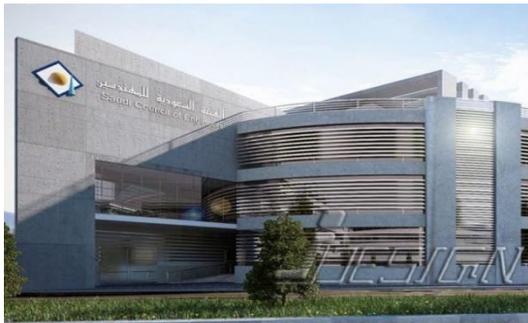


Figure 1. Saudi Council of Engineers [6]



Figure 2. AIA NC's New 'Green' Headquarters [7]



Figure 3. 136-Engineer Syndicate Office Building [8]

CASE STUDY EVALUATION

Table 1 shows the assessment of case study for Saudi Council of Engineers, AIA NC's New 'Green' Headquarters / Frank Harmon and 136-Engineer Syndicate Office Building.

Table 1. Evaluation of the selected case studies

No.	Case study topics	Evaluations
1	Saudi Council of Engineers	<ul style="list-style-type: none"> ➤ The use of different geometric voids helped on making the building non-boring one. On the other hand, there are no entertainment facilities and lake on the existence of a courtyard or an exterior landscape which is considered as a negative point.
2	AIA NC's New 'Green' Headquarters	<ul style="list-style-type: none"> ➤ Architects provided all functions needed but in a small scale. ➤ The building considered as a role model for healthy urbanism for chapter members and future development in downtown. ➤ The use of materials has provided a sense of harmony between the project and the surrounding environment.
3	136-Engineer Syndicate Office Building	<ul style="list-style-type: none"> ➤ Ark-Kassam Architects is a multiuse building because it is varies between commercial and private offices. ➤ Going horizontal is a perfect solution in the Syndicate Office Building because it will give the chance to enlarge number of facilities and to cover all functions needed ➤ The treatment of the elevations helped as a solution for sun glare.

PROGRAM ASSUMPTIONS

Syndicate is a collection of buildings associated with each other. The building is designed about 45% allocated for office building, 40% for syndicate and the remaining 15% for restaurant and cafe. Table 2, Table 3 and Table 4 tabulate the program assumption for office building, syndicate building and project major zone respectively.

Table 2. Program assumption for office building

Criteria	Area (m ²)
Gross Area (+30%)	11739
Landscape (30%)	2709
Parking - Under Ground	2500
Total Non- Buildable Area	5209
Buildable Area	11739
Total Project Area	16948

Table 3. Program assumption for syndicate building

Criteria	Area (m ²)
Gross Area (+30%)	10772
Landscape (30%)	3231
Parking - Under Ground	5000
Total Non- Buildable Area	3231
Buildable Area	10772
Total Project Area	14003

Table 4. Program assumption for project major zone

Criteria	Area (m ²)
Gross Area	22511
Landscape (30%)	6753
Parking - Under Ground	7500
Non-Buildable Area	6753
Buildable Area	22511
Total Project Area	29264

SITE PROPOSALS

The area of site A area is 200m x 200m which located in Jeddah on Sari road at Al-Shatee district (Figure 4). An advantage of the site is that it's near to red sea, Cornish road and many famous restaurants and cafes. The area of site B is 200m x 250m which located in Jeddah on Al-Baghdadeia Al-Gharbeia district (Figure 5). An advantage of the site is that it's near to Amanat Jeddah, Park Hayatt, and located near to the sea. The area of site C is 200m x 350m which located on Al-Cornish Road, Al-Ballad District, near to Medan Al-Baya'a (Figure 6).



Figure 4. Site A [9]



Figure 5. Site B [10]



Figure 6. Site C [11]

SITE EVALUATIONS

Table 5 indicates that Site B marks the highest score compared to Site A and Site C. The strengths of Site B are easily accessible, compatible with the land use, nice surrounding view, surrounded by different amenities and near to important economic areas. But the weakness is might be noisy at certain hours due to some near facilities.

Table 5. The result of site selection

Site Criteria	Full Score	Site A	Site B	Site C
Accessibility	10	9	10	10
Land use	10	9	10	10
Security	10	10	10	10
View	20	16	20	18
Existing natural elements	10	7	8	8
Interaction with community	20	2	20	20
Visibility	20	18	20	18
Total	100	71	98	94

Climatic

The open space of the project is located against the seashore and the built up zones are located around them, therefore the built-up area will block the prevailing wind coming unto the site. This factor was considered during the design process.

Zoning and overview of the project

Figure 7 illustrates that high building could be placed on the north and North West in order to be away from the crowded coming from Al-Andalus road. While, heavy landscape could be placed near to the sea. Low building will be placed on the east side in order to benefit from the good view. Besides that Figure 8, 9 and 10 demonstrate the 3D perspective of bridge view, bird view A and B respectively.

CONCLUSION

The project of Architects' Syndicate building playing a leading major role in Saudi Arabia in providing a center that offers an innovative type of buildings that take care of designers, architecture students, and professionals. This chosen site is located in Jeddah at Al-Baghdadeia Al-Gharbeia district. An advantage of the site is that it's near to Amanat Jeddah, Park Hayatt and located near to the sea. This building provides a good connection for both office and syndicate building and the restaurant and cafe is situated between them.



Figure 7. Final Zoning [10]



Figure 8. 3D Perspective of Bridge View

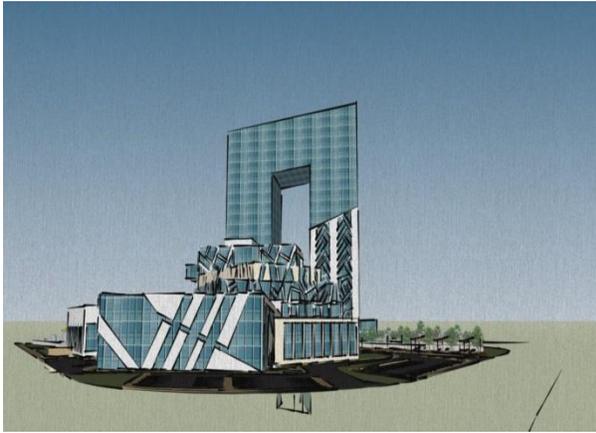


Figure 9. 3D Perspective of Bird View A



Figure 10. 3D Perspective of Bird View B

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