



The Design Medan Concert Hall with Metaphor Architecture Approach

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Abstract. The theater usually has an attractive form to attract the attention of visitors and also has good sound control in the auditorium so as not to cause sound distortion. Performances in Medan are still inadequate to accommodate international performances. Particularly in Medan, the enthusiasm of the community towards art tends to be high, but the facilities of the place lack to accommodate performances. Data collection methods are carried out by collecting primary data through a process of field comparative study and secondary data through literature studies & comparative studies. The design approach used in design studies are analyzing the physical, conditions around the site, potential, the limits that exist on the site, Site and environmental approaches are analysis of site conditions and the best solutions, the user approach is building analysis to meet the need for facilities and quality in accommodating the show, literature studies related to titles and themes and theories that support design ideas. The Metaphor is chosen as a truss design theme to convey the shape of building design by combining metaphorical forms of buildings and the prominence of the same metaphorical theme in the building to those who visit and see buildings to prevent sound distortions by using porous materials. Medan is a big city in Indonesia as a design area with consideration of a strategic location. It is expected that with the presence of this performance center, domestic and foreign tourists and especially Medan people themselves can enjoy the comfort and get to know traditional music and dance in Indonesia.

Keyword: architecture, concert hall, metaphor, tourism

1. Introduction

Concert Hall is a large building dedicated to a concert venue. The term Concert Hall can be a space where a music concert is held or can be a whole rather than a building. The room where a concert takes place has a stage where the players are located and the auditorium where the audience watches the concert. The Concert Hall at general serves to accommodate activities from both individual and group artists and present it to the audience in the form of musical art media. Music concert buildings are generally located in locations that are easily accessible to visitors and have large parking lots [1]. The music concert building that is not yet in the city of Medan is expected to become an icon for North Sumatera in general and Medan in particular.

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In North Sumatra, especially in Medan, from the art show, we can see the appearance of various types of music and dance. Art shows in North Sumatra often display modern or traditional music and modern or traditional dance. Traditional music and dance deserve to be maintained because Indonesia is a country that consists of many islands and tribes that have traditional music and dance whose uniqueness can be seen from the various things that surround it. This is a provincial agenda that should be maintained throughout the period because through this event, various local traditions can be introduced to the younger generation.

At this time, the appreciation of the Indonesian people towards the performing arts began to increase as well as what happened in Medan. An objective appreciation of the performing arts is increasing rapidly. This is evident from the increasing number of people who come to see drama shows, music concerts, dance, film screenings, competitions in the arts, and other arts events. However, it is not only an appreciation to admire that which increases but also an appreciation for deepening up to be creative. Many people, especially the Medan people from various age groups and economies who actually have artistic talent and creative power but not until developed and channeled properly. This is due to the limited means of educating informal arts that can accommodate and serve the art-loving community. With the increasing appreciation of the community in the arts, of course, a container that can be adequate with complete facilities is needed to increase public interest in the arts.

But the venue for the art performance was considered inadequate in terms of the number of facilities available, so that the results of the performance were less satisfying than the artists because of the lack of facilities that support the performance of the show, whether it was sound systems, lighting, to a less comfortable backstage atmosphere. The alternative offered is a place for performing arts that has ideal facilities and can meet the needs of artists and art lovers in the city of Medan. So that in the end, the Medan Art Performance Center can improve the quality of art in Indonesia, especially in the city of Medan. It is expected that with the existence of this Art Concert Building, domestic and foreign tourists and especially the surrounding community enjoy comfortably and to be more familiar with traditional and modern music and dance.

2. Literature Study

Art Performance Building: 1 large building and so on a place of activity, such as offices, meetings, commerce, shows, sports, etc.; 2 large walled houses; (Large Dictionary Indonesian). Performances: 1 thing displayed; spectacle (cinema, puppets, and so); 2 exhibitions (items); feeling of demonstration; demonstration; (Indonesia Dictionary).

Art: about art; beauty: history - history of the development of art - many people's art folk in a form that can cause feelings beautiful created by members of the community whose results are shared property. (Indonesia Dictionary)

Results Preparation Room (dressing room): This room serves as a space for dressing dancers and escorts. The facilities needed are dressing tables and chairs along with mirrors. Needed also special lighting to facilitate activities. Semi-private areas that have problems, which require circulation, which is easily accessible to the performers of the art in the middle of the public area.

Training Room: This room serves as a training ground for both dancers and dance accompaniment. The facilities needed are a mirror on the wall. Practice room divided into 2, namely: large exercise room (large training room with a capacity of 7-15 people including a trainer) and a small training room (space small training with a capacity of 1-7 people including trainers); This room is one of the most important rooms, because of the room it is used as a training place for art performers to do practice before holding a show.

Gallery: The gallery is a public area for exhibiting various dance clothes and some traditional art. **Lobby:** Public areas that are the main access for visitors so it is important to be used as a special plan. This area also functions as a place for ticket sales and purchase transactions shows. The facilities needed are desk and chair employees on duty [2].

The location of the Project at Medan, Gagak Hitam Street, Sei Sikambang B, Sub-district Medan Sunggal, North Sumatera. Ringroad Street of design with consideration of a strategic site. Site location has easy accessibility for visitors, managers, and service, has a main road that is wide enough and has an intersection on the main road to facilitate the intended direction. Esplanade Concert Hall - Theaters on the Bay is one of the icons of Singapore. Located right next to the Merlion Statue at Merlion Park. This is one of the busiest arts centers in the world, officially opened on October 12, 2002. Like the strong aroma of durian fruit, every Singaporean has his own opinion about the design of Singapore's Esplanade (Figure 1).



Figure 1. Esplanade Concert Hall

(Source: <https://www.esplanade.com/venue-hire/concert-hall>)

Tenerife Opera House, The building, opened in 2003 and became one of the symbolic buildings in Tenerife. Built by architect Santiago Calatrava and located on the beach of Santa Cruz, Canary Island, Spain. Santiago Calatrava was inspired by coral waves for this single building design (Figure 2).



Figure 2. Tenerife Opera House

(Source: https://en.wikipedia.org/wiki/Auditorio_de_Tenerife)

3. Methodology

In the development of performing arts, there are seven goals to be achieved based on 3 (three) main missions carried out to achieve the predetermined vision. The purpose is as follows:

Increasing the quantity and quality of the performing arts human resources empowered. Human resources for performing arts include artists, managers, producers, designers, technicians, curators, and performance, art critics. Resource human performance art that is empowered means having knowledge and expertise to support the creation of quality performing arts.

They are improving the quality of protection, development, and utilization of resources, cultural power for performing arts on an ongoing basis. Cultural arts resources the show in question is all knowledge, tradition, and local wisdom (local wisdom) related to and supporting the development of performing arts in Indonesia. Protection means filing properly. Development means the use of resources cultural power as a source of inspiration for the creation of performing arts. Utilization meaning that cultural resources must be accessible for public use with fast and easy.

Increased growth and quality of the performing arts industry, meaning it is formed an institutional system and infrastructure that enables the growth of businesses and quality new entrepreneurs, in supporting the consistency of the creation of works of art quality performances.

Increased availability and access to financing for the creation and production process performing arts that are transparent, accountable, and easily accessible. Transparent or open

means that all information relating to financing can be known by the public. Accountable means that there is a system of management and reporting of financing, which can be accounted for. Easily accessible means that there are an information system and management that makes it easy for the public to access financing.

Expansion of quality and sustainable domestic and foreign markets, meaning the increasing number of domestic and foreign performing arts viewers through strategy quality and continuous support and promotion programs (continuous).

Increased availability of facilities and infrastructure for professional performances and training ground, meaning the increasing number of showrooms and spaces creative public that can be used as a presentation stage for the show as well as studio or training room space equipped with technical infrastructure adequate or up-to-date.

It is improving the quality of institutions that create a conducive climate for performance art development. In developing performing arts, it is needed conducive institutions that include: Regulations supporting chain creation creative performing arts; The involvement of active stakeholders consisting of practitioners and government, private sector practitioners and academics; Open public spaces for organizing performance arts activities; Increasing position, contribution, independence, and leadership of Indonesia in the fora international; and Appreciation to people and creative works of performing arts (good tradition and contemporary) in Indonesia [3].

Data collection methods are carried out by collecting primary data through a process of field comparative study and secondary data through literature studies & comparative studies.

Design Approach

The design approach used in design Concert Hall: Field studies are analyzing the physical, conditions around the site, potential, the limits that exist on the site, Site and environmental approaches are analysis of site conditions and the best solutions, The user approach is building analysis to meet the need for facilities and quality in accommodating the show, Literature studies related to titles and themes, and theories that support design ideas.

4. Design Concept

The main mass building in the Art Concert Hall was inspired by the form of Turtles. Turtles which have a long life with building function shows many health benefits from listening to music and enjoy the show so that it has a long life like a turtle (Figure 3).

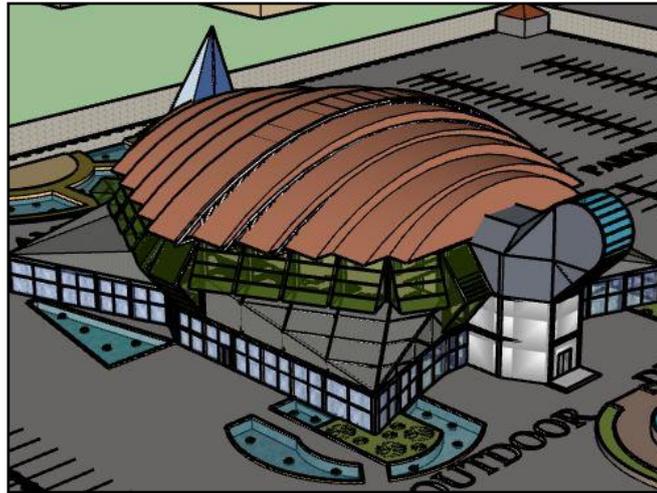


Figure 3. Mass Building

The structure used in the Art Concert Building is a rigid frame structure, which can withstand horizontal and vertical forces stably. Also, the rigid frame structure allows for the efficient and manageable laying of space. In the building foundation, used the bore pile structure, because it is considered to be able to withstand a better load and also the construction process does not damage the soil conditions on the design site. For the roof of the building, a truss structure is used with mild steel material that can load with a wide stretch and a fairly light roof load (Figure 4).

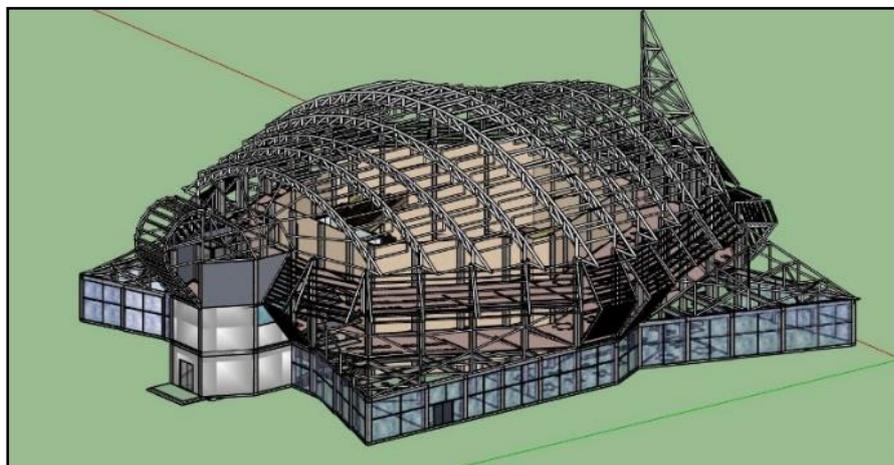


Figure 4. Structure Building

Inside this building, there is a turtle aquarium, adjusting the interior theme of the building with the shape of the building (Figure 5).

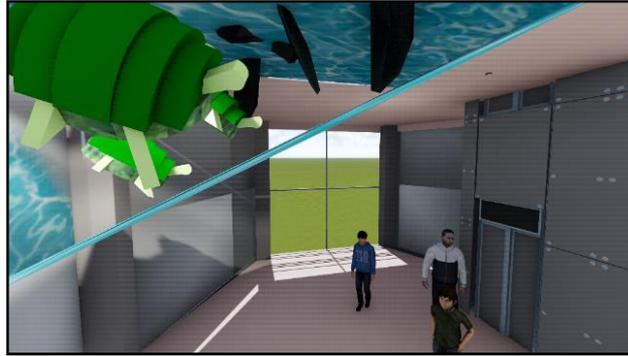


Figure 5. Interior Building

In the, auditorium there are two performances, one is below, and one is on the balcony (Figure 6).



Figure 6. Interior Auditorium

There is a large parking lot on the right and left of the building and has an amphitheater behind the building (Figure 7).



Figure 7. Site

5. Conclusion

The Performing Arts / Concert Building has a capacity of nearly 1,200 seats and two stages of safety, which are located in 1 auditorium and supporting rooms of retail buildings, restaurants, exhibition halls, and Back Stage rooms for artists. The application of the Metaphor theme to the

design includes both physical and non-physical aspects. Which one physically takes the basic forms of turtles. Turtles that have a long life with the purpose of the function of a concert building listening to music has many health benefits so that it has a long life like turtles and non-physically takes the concept of flexibility in the space where there is an aquarium turtle. The main roof structure used is the rigid frame so that the building resembles a turtle shell. Creating the quality of the show starts with creating good sound using porous material and comfort in it. Ticketing density will be a problem when you want to see a show with the current technology application that can make buying tickets easier so there are not too many queues. The location of the site in Medan or more precisely in the Ring Road area which has the potential of a wide main road and a strategic place so that it is right to create the show area.

Acknowledgment

The Journal Post Modern Architecture Application on Medan Concert Hall was created to provide solutions, concepts, responses to the location at Medan City. Medan Concert Hall is planned to be built by Governments by the organizer of the North Sumatera Fair.

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