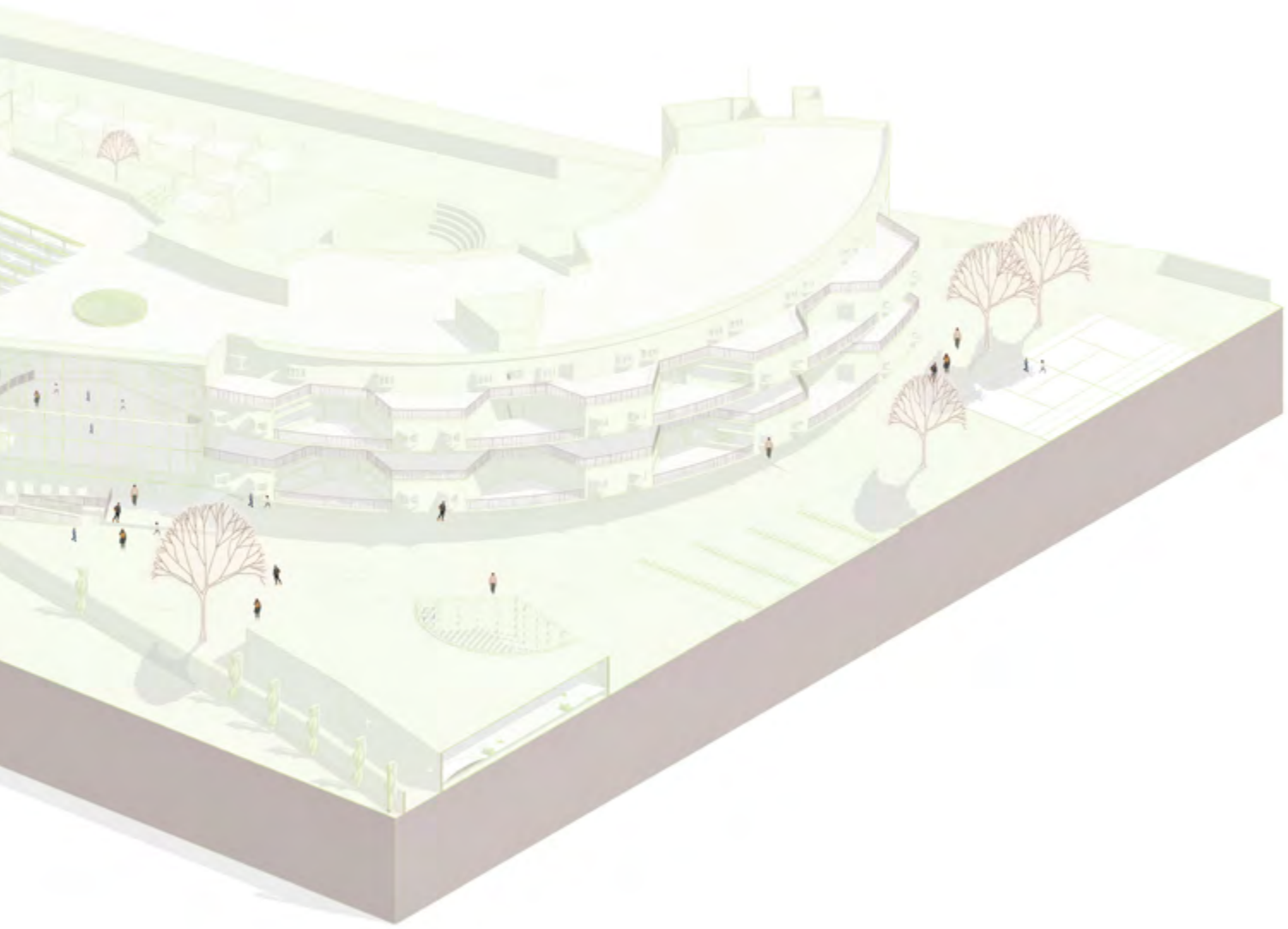


ARCHITECTURE
PORTFOLIO.

SELECTED ARCHITECTURE WORK

MUHAMMED ABDULLAH | 2019 - 2024

MUHAMMED **ABDULLAH**
ARCHITECT

HELLO,

I am an architect with a strong curiosity for designing spaces that are not only functional and sustainable, but also visually entertained. I admire myself on being highly adaptable and continually learning through practical experience and new challenges. I approach every project with discipline, care, and a commitment to delivering well-presented, impactful results.

As a design enthusiast who thinks outside the box. I have excellent technical, modeling, and visualization skills, As shown in my portfolio. And I am really ambitious to present my work and solve problems in an innovative way to gain more experience through new challenges that will make the greatest use of my existing creative skills.

WORK EXPERIENCE :

2025

Junior Architect
Alpha Architecture Studio

Worked as a Junior architect I was entrusted with the responsibility of assisting in the design and development of diverse architectural projects.

2022

Intership
Amar Architecture

Completed a six months internship worked in multiple projects like : residential, commercial, interior projects.

EDUCATION :

2024

Bachelor of Architecture : 2019 - 2024

Completed B.Arch degree in B.S. Abdur Rahman Crescent institute of science and technology, Chennai, India.

2023

Completed BIM professional course and also learned about BIM softwares.

2019

Completed my schooling in Neelan matriculation and higher secondary school, Needamangalam, India.

SOFTWARE :

BIM software :

Revit (Proficiet 2+ Years)

Navisworks (Proficiet 1+ Years)

Dynamo

2D Drafting software :

Autocad (Proficient 3+ Years)

3D Modelling software :

Sketchup

Rhino 3D (Proficiet 3+ Years)

Rendering software :

Lumion (Proficiet 3+ Years)

Twinmotion (Proficiet 2+ Years)

D5 Render (Proficiet 1+ Years)

Graphical presentation software :

Photoshop (Proficiet 3+ Years)

Indesign

Illustrator (Proficiet 1+ Years)

COMPETITION :

INSDAG COMPETITION :

- R&D Center (2023).
- International school project (2022).

BEE BREEDERS :

- Iceland greenhouse restaurent design (2022).

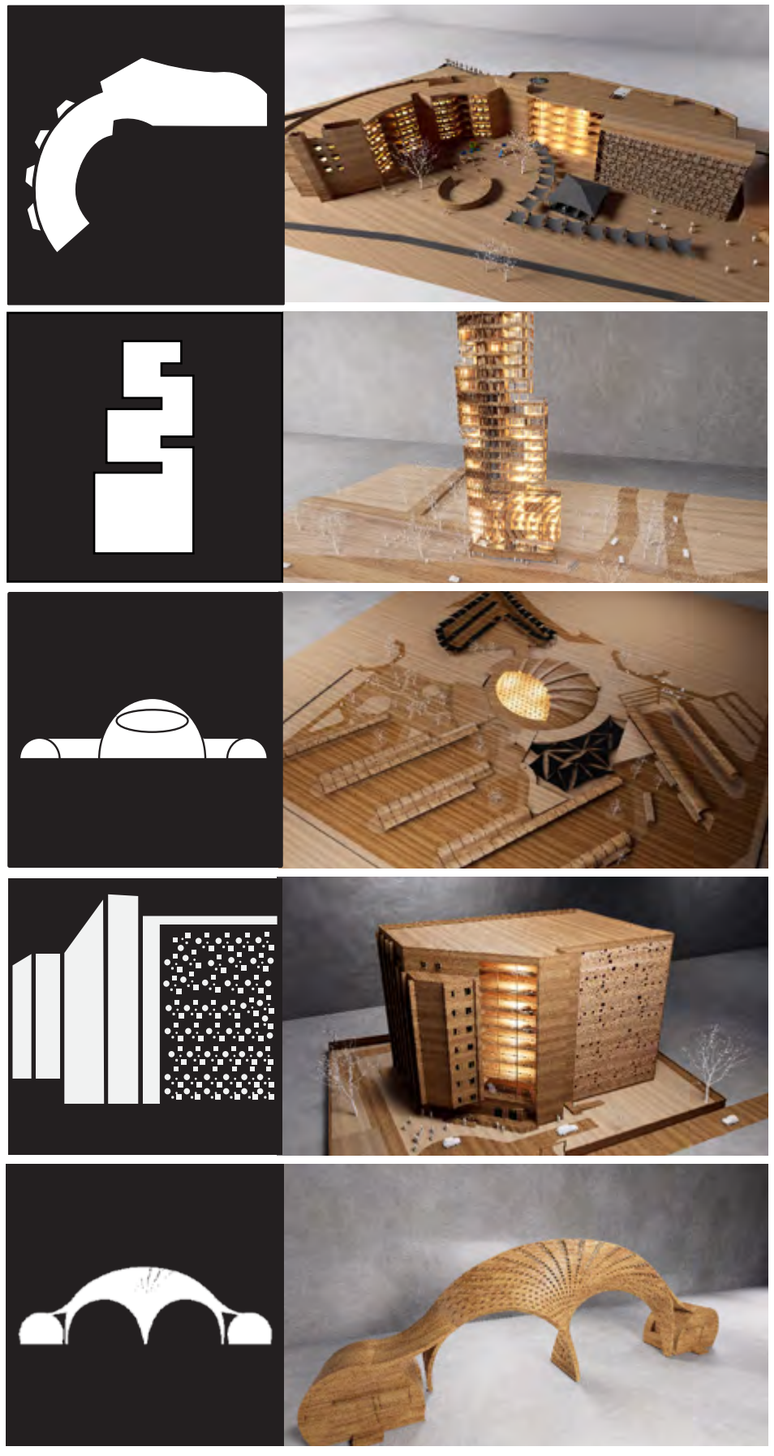
CERTIFICATION :

- Novatr (previously Oneisto x) BIM course completion
- Autodesk certificate for Revit
- Autodesk certificate for Naviswork
- Participation in steel conference
- Participation in InsDag Competition

LinkedIn

Website

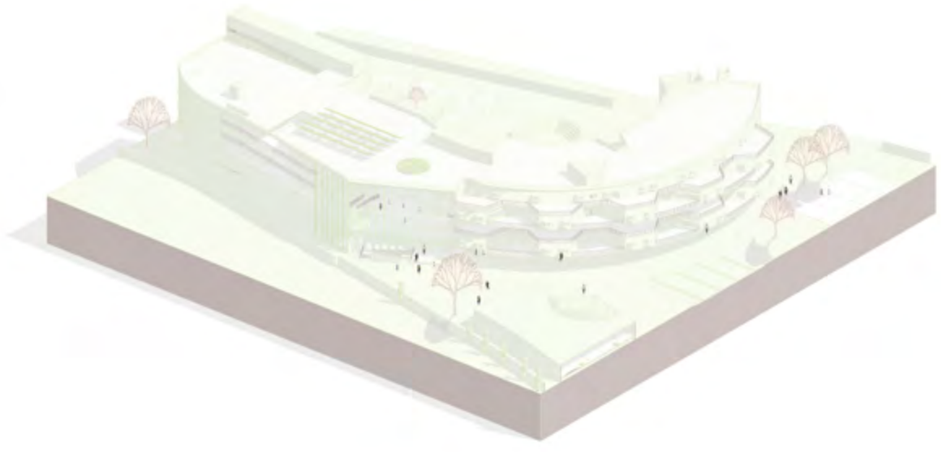
CONTENT



DISCOVERY CENTER (STEAM BASED SCHOOL)

Location : Madhavaram, Chennai, India.
Area : 5.7 acres
Project type : Institutional

Discovery center is an educational facility where it focus only on advance science, technology, engineerIng, arts and mathematics (STEAM). It emphasis the creativity an design of a traditional fields. The interactive displays that let visitors interact with a range of scientific and technology ideas; frequently includes engineering and design components. places where people can work on projects, participate in practical activities, and try out different materials in order to encourage learning by doing. It promotes cooperation and teamwork, in line with the multidisciplinary nature of STEAM disciplines. The areas devoted to investigating and creating cutting-edge concepts, tools, and solutions that promote creativity and problem-solving abilities.



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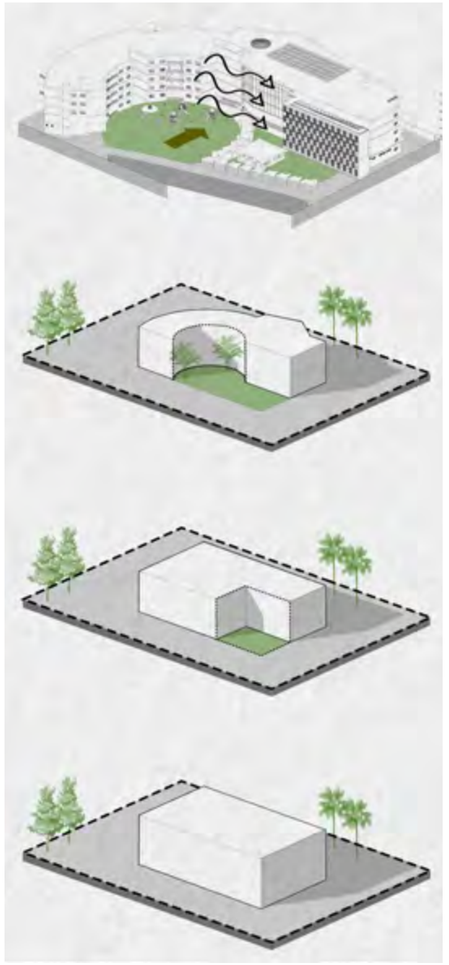
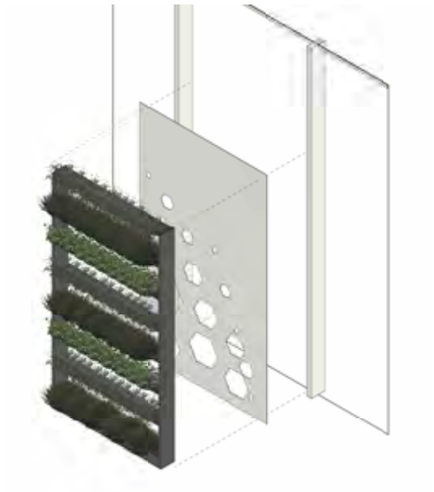


INCLUSIVE ARCHITECTURE :

Inclusive architecture refers to any space or area that can be seamlessly used by all potential user groups within a specific context. It is an approach that takes into account the diverse needs of people, including those with disabilities, when designing buildings or other structures. The flexibility in the design of the spaces promotes equality amongst the differently-abled children, thus supporting the inclusive philosophy of the organization. Architects can incorporate universal design principles that ensure spaces are accessible to people of all abilities. This includes features like ramps, wide doorways, and tactile paving.

BIO-PHILIC ARCHITECTURE :

Biophilic design is a concept used within the building industry to increase occupant connectivity to the natural environment through the use of direct nature, indirect nature, and space and place conditions. Health Benefits: Biophilic design has been linked to reduced stress, improved mood, and enhanced cognitive function. Exposure to nature positively impacts mental and physical well-being. Environmental Benefits: By integrating nature, buildings contribute to ecological balance and biodiversity. Green roofs, for instance, provide habitat for birds and insects. Direct Experience of Nature: Incorporating natural elements directly into the built environment.



This is the elevation that is facing south side which has strong direct sunlight and inside there is a ramp which connects all the floor it is usefull for physically challenged people and in case of fire. The elevation is designed to prevent the direct sunlight not completely but partially by ACP (Aluminium composite panel) with CNC cut in it. And also there is a verticle garden provided because in summer the plants also helps to prevent sunlight and in winter it allows the sunlight.

The ACP and verticle garden both are installed in the MS (Mild steel) frame. The MS (Mild steel) is framed on the exact size of the ACP with also hold the verticle garden. The verticle garden is maintained by the mechanical watering system (Drip irigation method). The verticle garden also helps to filter the air and it also provide a green environmnet. Since there is a CNC cut in the ACP through the cut ventilation will be done.

WIND TURBINE :

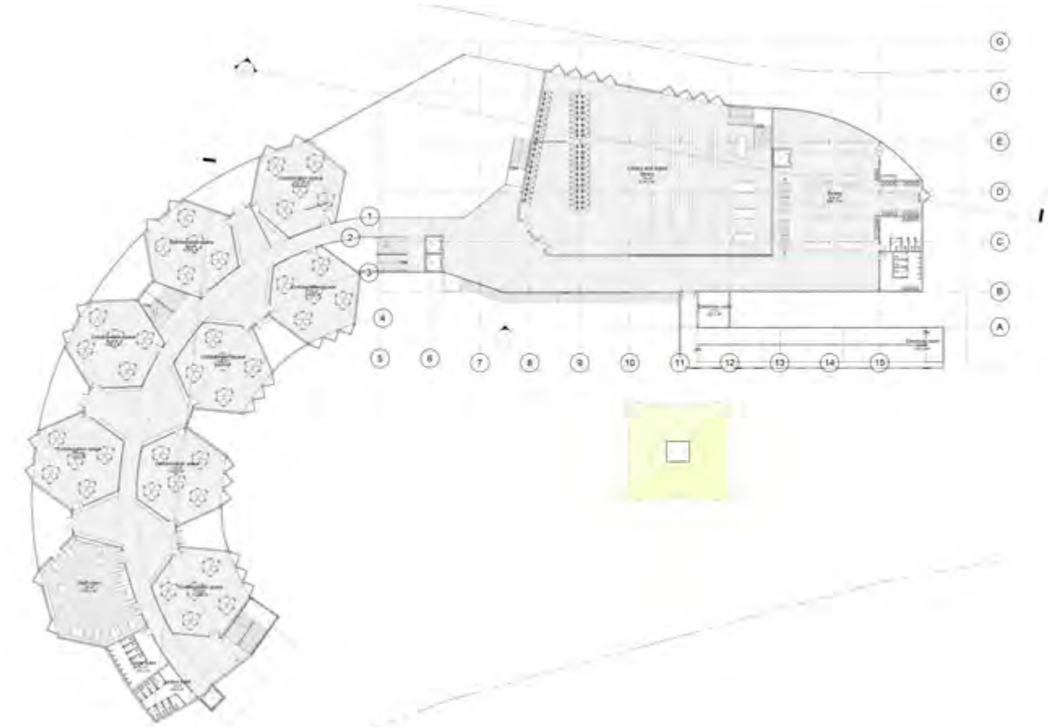
The wind turbine is placed outside of the compund wall facing the road. It generates electricity from the wind that is generated by the vehicles that are crossing on the road. The collected electricity will be send to the sub station that is located near to the last wind turbine.

RAIN WATER HARVESTING :

In the main academic building the classrooms are projected out each spaces in between the classrooms act as a gardening space. The rain water that are collected from the terrace will be drain through pipe to these gardening space where the water will be used for those plants and the excess water will be drained from the gardening space will be cleaned by the plant roots and the gravels.

Discovery Center Main Building

Play School



First Floor

Ground Floor

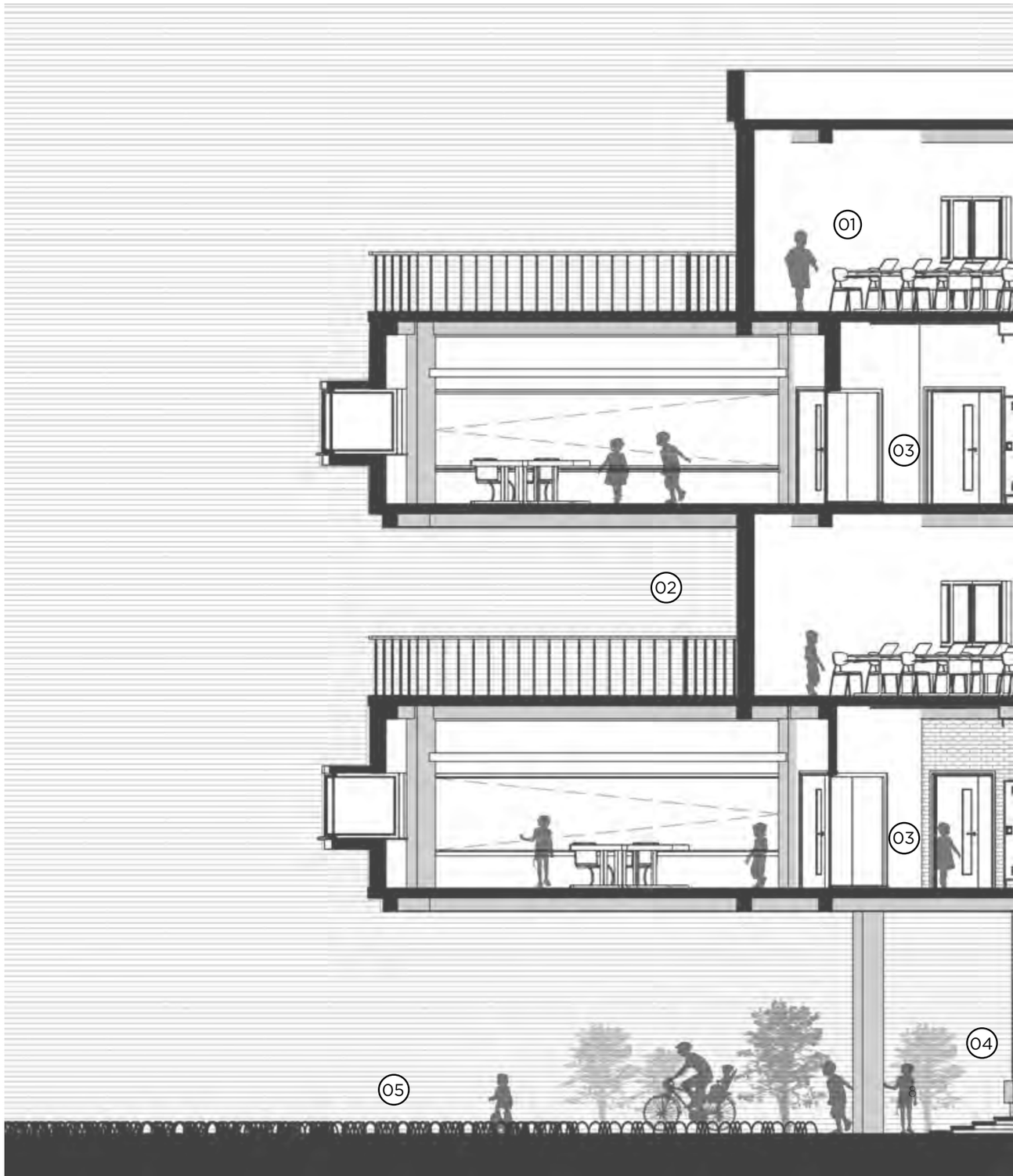
01 Collaboration Room

02 Landscape Area

03 Locker Area

04 Second Entrance

05 Cycle Parking

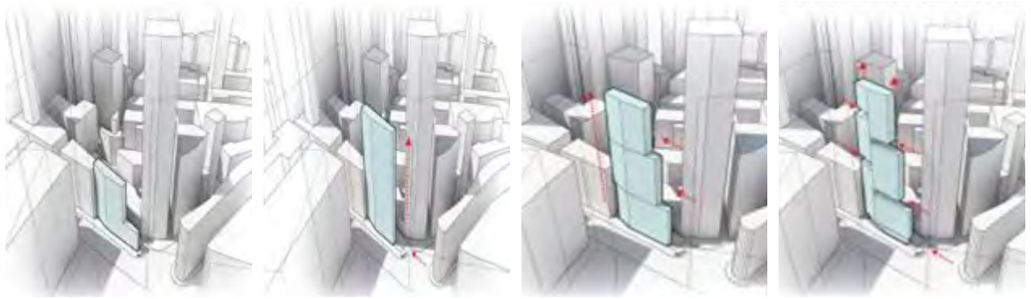


ENZYME TOWER

Location : Hong Kong, China..
Area : 162.7 sq.m
Project type : Mixed use - High rise building
Client : Enzyme APD ltd
Height Requirement : 21 Storey
FAR : 13.8

The enzyme towers building is an existing building which is build in 70's that didn't follow the GFA and it need to be redesign to achieve the GFA and it has to be the landmark building. Client is required to incoporate public spaces and sky gardens into the building.

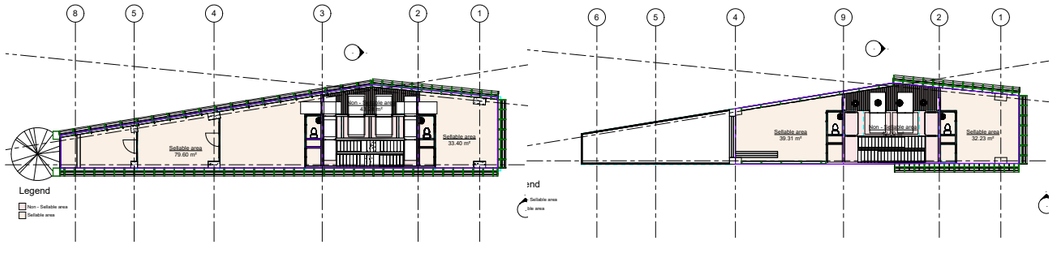
CONCEPT AND MASSING :



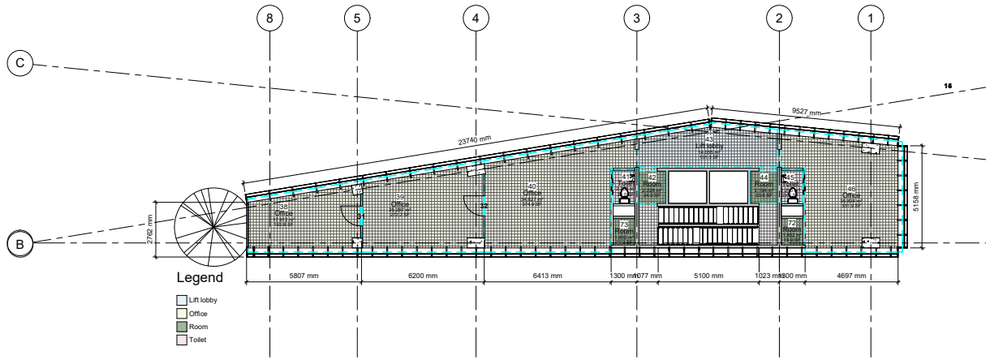
The project is located at the intersection of Wellington St. and Queens Road Central in the Central district of Hong Kong Island. The existing building, built in the 70's, doesn't maximize the current allowed GFA of the plot. The owner is looking at the possibility of another building volume that can provide a better ROI while creating a landmark in a critical urban point.

The permissible GFA allowed =2810.5sqm. To achieve the lost GFA setbacks are created as per the local regulations that helps to gain the addition of extra stories. This can be done by adding sky gardens and public spaces.

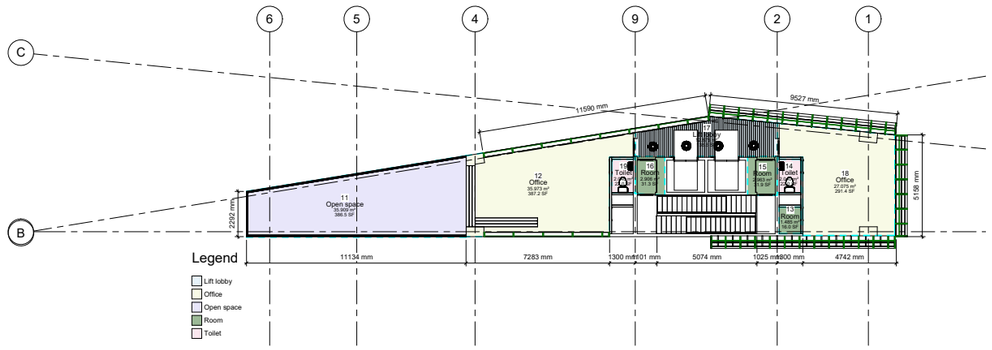
AREA PLAN :



TYPICAL PLAN :



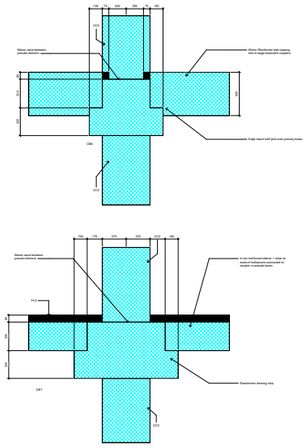
ATYPICAL PLAN :

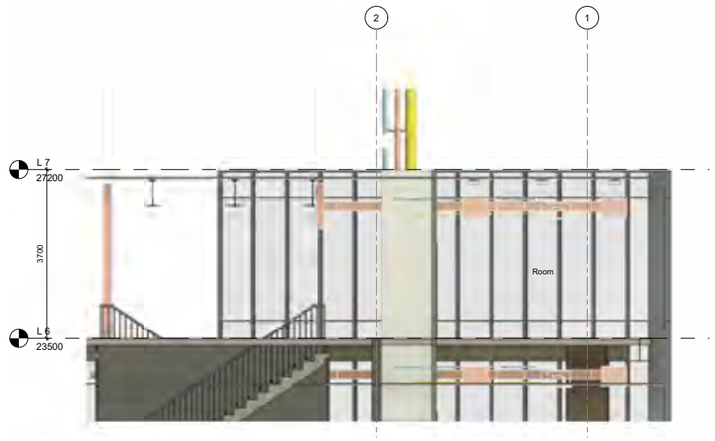


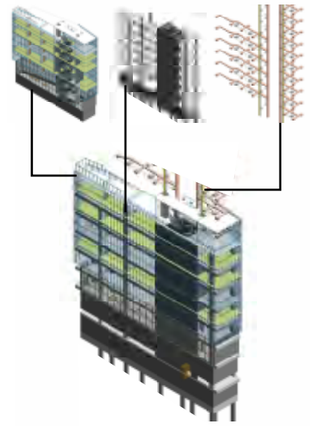
Room Schedule for L3 Typical		
Level	Name	Area
L 3		
L 3	Office	17.912 m²
L 3	Office	25.287 m²
L 3	Office	34.827 m²
L 3	Toilet	2.230 m²
L 3	Room	2.228 m²
L 3	Lift lobby	14.055 m²
L 3	Room	2.194 m²
L 3	Toilet	2.210 m²
L 3	Office	30.834 m²
L 3	Room	1.852 m²
L 3	Room	1.852 m²
Grand floor area total		135.482 m²

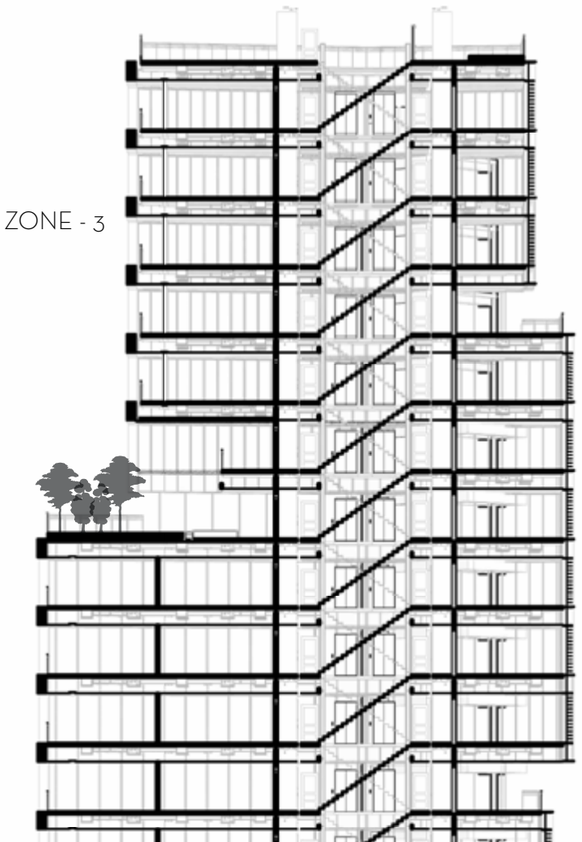
Room Schedule for L6 Atypical		
Level	Name	Area
L 6		
L 6	Office	35.973 m²
L 6	Room	1.485 m²
L 6	Toilet	2.040 m²
L 6	Room	2.963 m²
L 6	Room	2.906 m²
L 6	Lift lobby	12.875 m²
L 6	Office	27.075 m²
L 6	Toilet	2.040 m²
L 6	Open space	35.909 m²
Grand floor area total		123.267 m²

CALLOUT DETAIL :

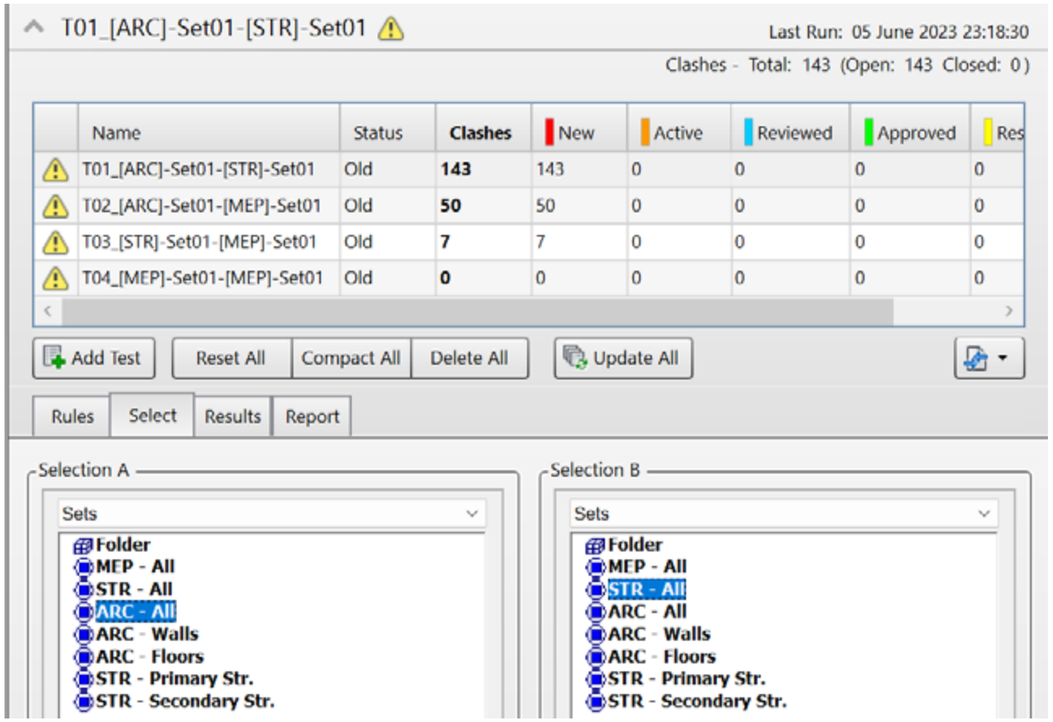


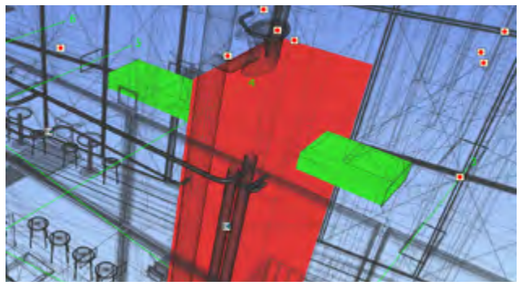


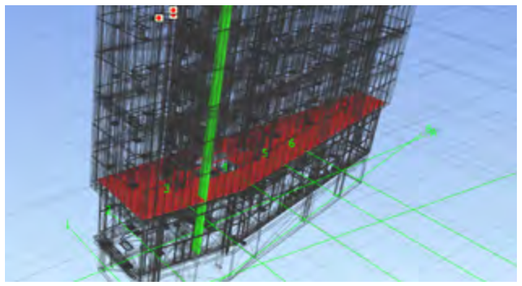




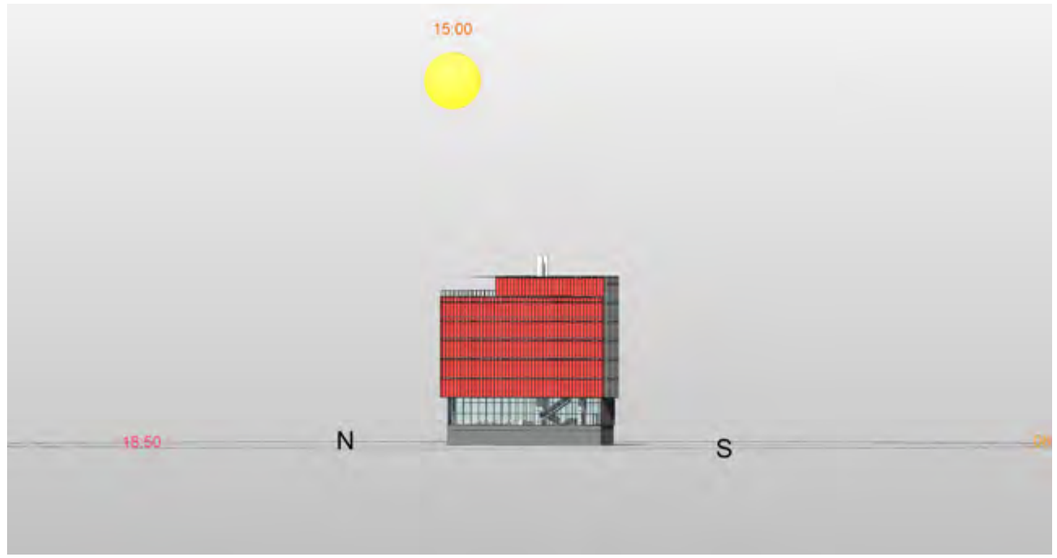
CLASH DETECTION :

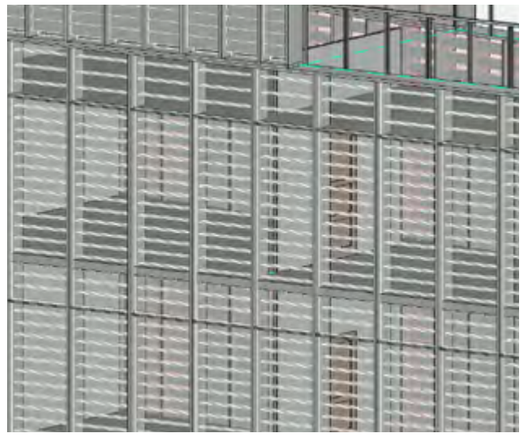






PARAMETRIC LOUVERS BASED ON SUN DIRECTION :

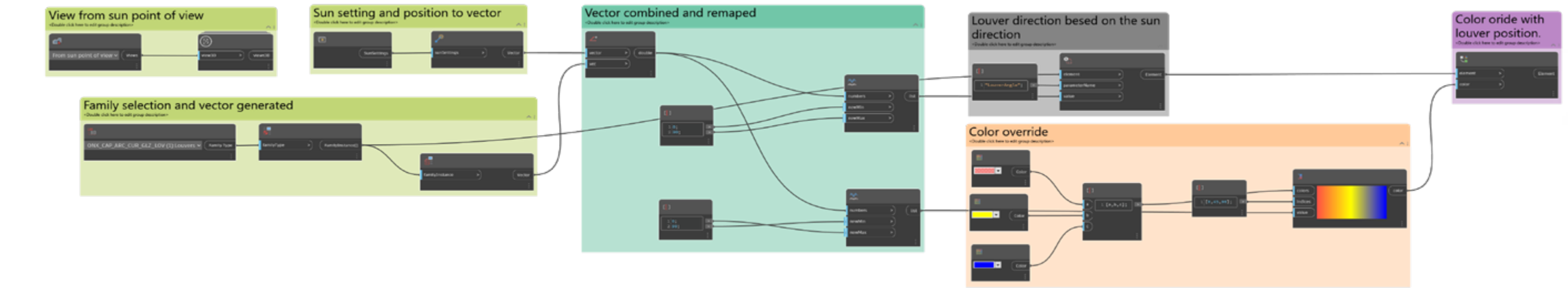




Louvers when less sunlight hits the building

Louvers when sunlight hits directly on the building

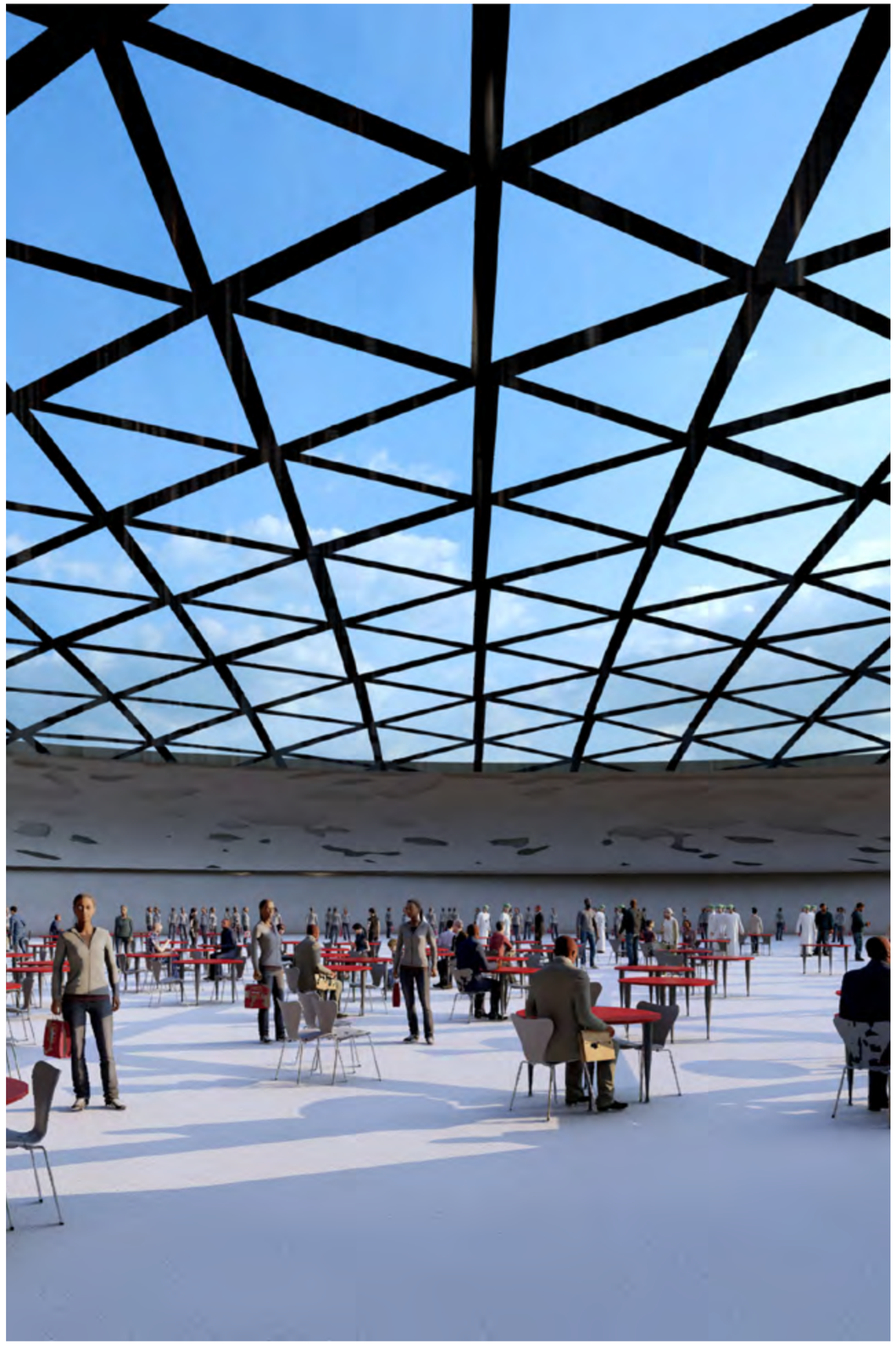
DYNAMO SCRIPT FOR LOUVERS :

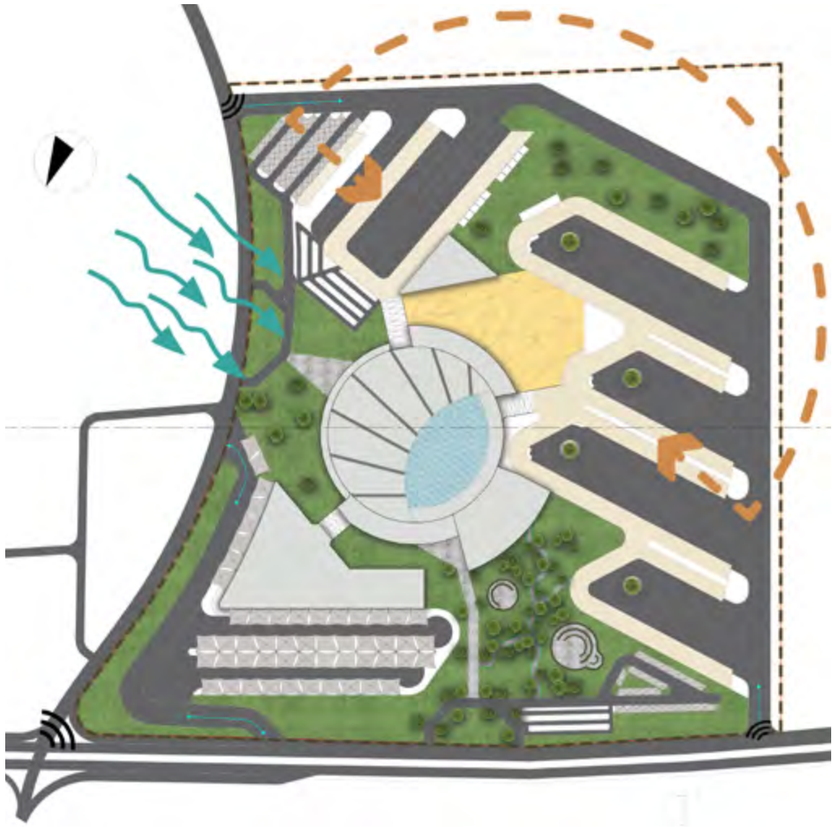


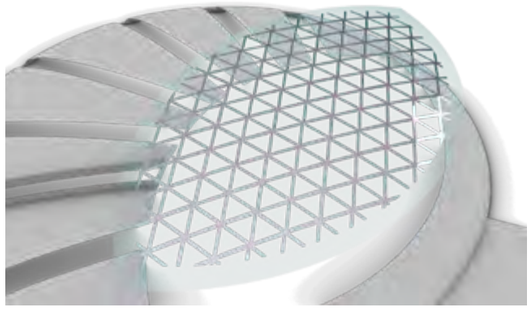
INTEGRATED BUS TERMINAL

Location : Trichy, India..
Area : 40 Acres
Project type : Transportation

Integrated bus terminal is a transportation hub which helps the users to travel one place to another effectively and it enables the efficiency of the bus and connectivity. Integrated bus terminal provides various modes of transportation allowing to travel easily between modes. These terminal holds a large number of users and it need to provide an effective solution for them. The integrated bus terminal should act as a comfortable space as well as an entertainment space where users will spend their time on while waiting for their buses.

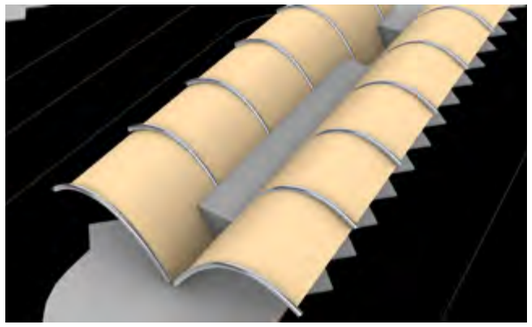






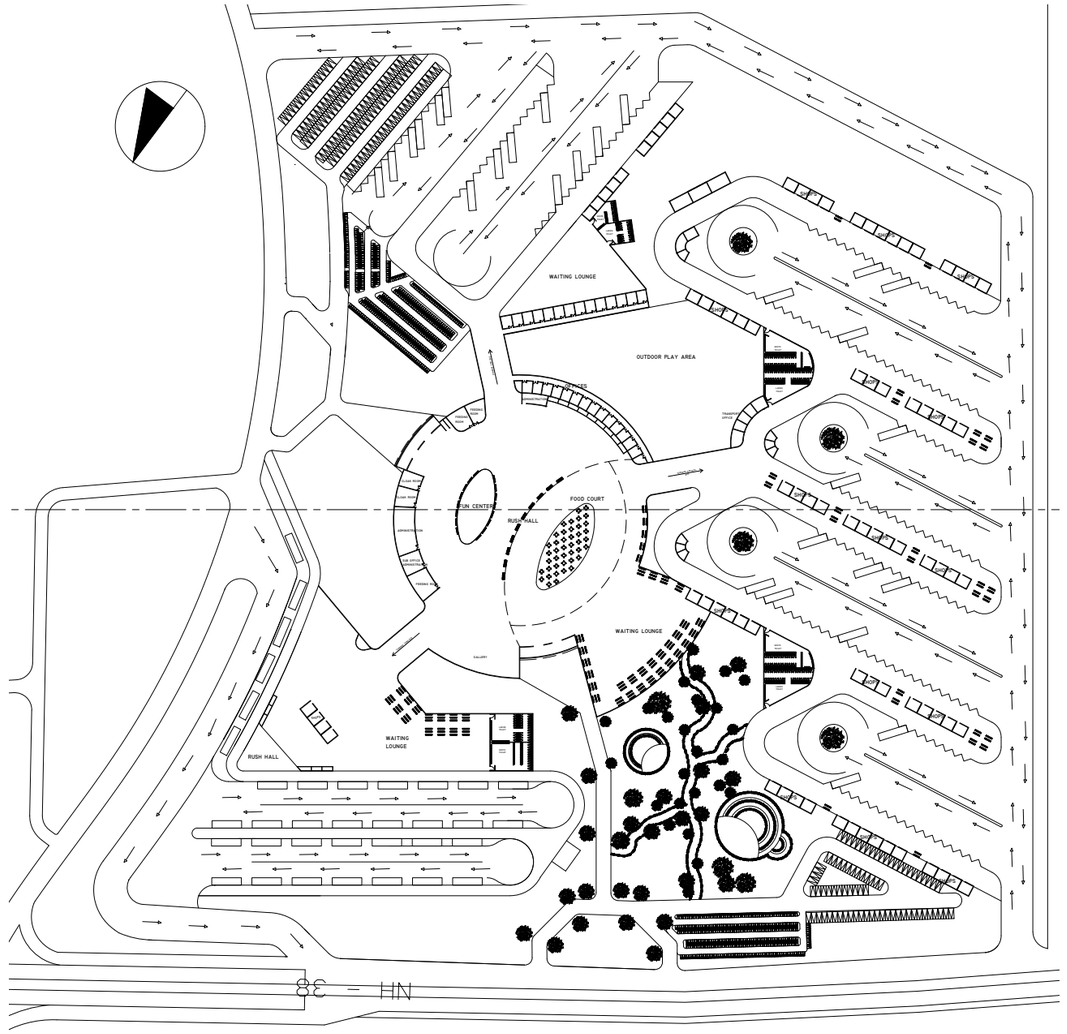
SPACE FRAME :

The main block of the bus stop is a located in the center of the site which also act as a connection space in between all the space. And it also has an entertainment space and a meeting point. The space frame structure is provided directly above the food court and it also positioned to avoid the direct sunlight. Since it is a large space it also helps on the load distribution efficiently with minimal internal supports which also conects people with outside and provide beautyful scenes while raining and sun sets.



TENSILE STRUCTURE :

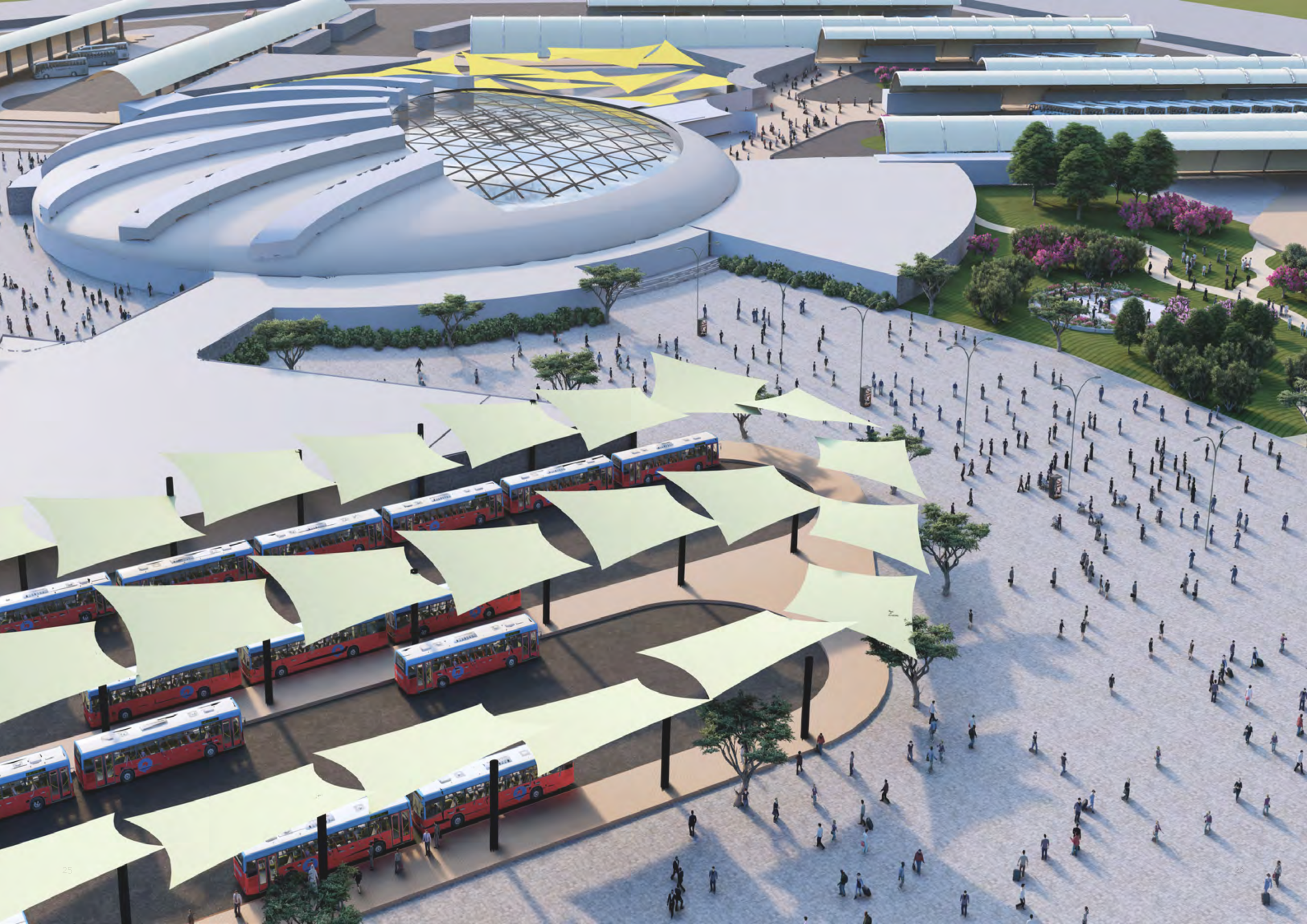
The tensile structure is provided in the platforms and play area. Since it is a public building tensile structures helps for low maintanence and easy to assemble. The tensile structure will also provides the creative and visually apealing design. The materials used for tensile structure can also play with light.



The bus terminal is designed in a way to use sunlight as a maximum. Since it is a travel hub multiple people will go through these building so the building is located in way where everybody can reach any typr of buses as quick as posiible. Also the bus terminal is designed in a way to face extreme crowd especialy in the festival season it divides the crowd to multiple areas by separating the departure and arrival part of the passengers even in a extreme crowd they can easily add a multiple ways to the crowded area.

The site is located in the outer side of the city (Trichy) where the aim is to design an integrated bus terminal for the people living in the city. The site has totally eight entry where four entry/exit for buses and four entry/exit for users. The parking spaces are accessible from the every entry. And there are three major users (mofussil bus users, local bus users, and private bus users) and several connecting bus users. The bus terminal is divided into three zones (mofussil bus zone, local bus zone, and private bus zone) each and every zones are interconnected the passengers can easily access these zones with out any confussions. And the bus terminal is located center of the site from there people can access any space easily. The local bus zone is located near the main road because bus will not wait for long and it has to reach the next bus stop on time.

The mofussil bus zone is located in the southwest side because the mofussil bus zone has the maximum buses where these buses will start at a specific time. And in mofussil bus area is one of the most crowded area so it has multiple platforms to divide the crowd. The third zone is for the private bus which is also a long travelling bus but maximum buses only travel at night so it is placed on the back side of the site. The site also has play area and park where passengers can spend time in case of any delay of the buses. From the park and play area people also can visibly see the mofussil zone and local buses zone so the passengers can see that if their buses are getting ready or not.



MULTI - SPECIALITY HOSPITAL

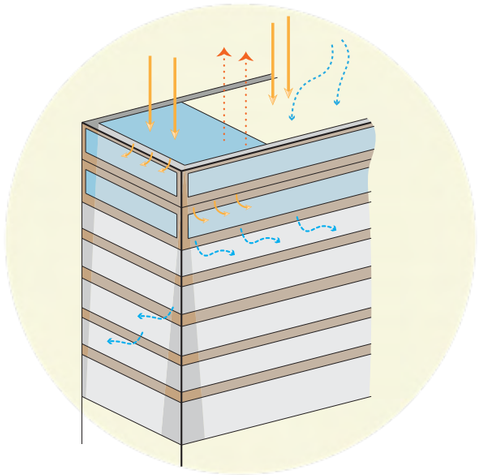
Location : Chennai, India...
Area : 1.5 Acres
Project type : Health care

A multi-specialty hospital is a healthcare facility that provides a wide range of medical services across various branches of medicine under one roof. These hospitals are equipped with advanced technology and staffed by highly trained specialists who offer comprehensive care, including diagnostic services, surgical treatments, and intensive care for critically ill patients

The site has clear view from the road and the surrounded buildings are low rise buildings which stands out from the surroundings it also helps to easily identify in case of an emergency. The site is surrounded with vegetation it can be used as a viewpoint for the patients. The site is having two roads (main road and service road) which directly connects to the site.

There are four entry/exits separate entry/exit is provided. It is a 12 Storey building (3B + G + 8). When the users get into the site there is a drop off and pickup point is provided after the users been dropped off the users can park the vehicle in the underground parking separate entry and exit is provided for the underground parking. For the ambulance the entry is located in rear side of the building.

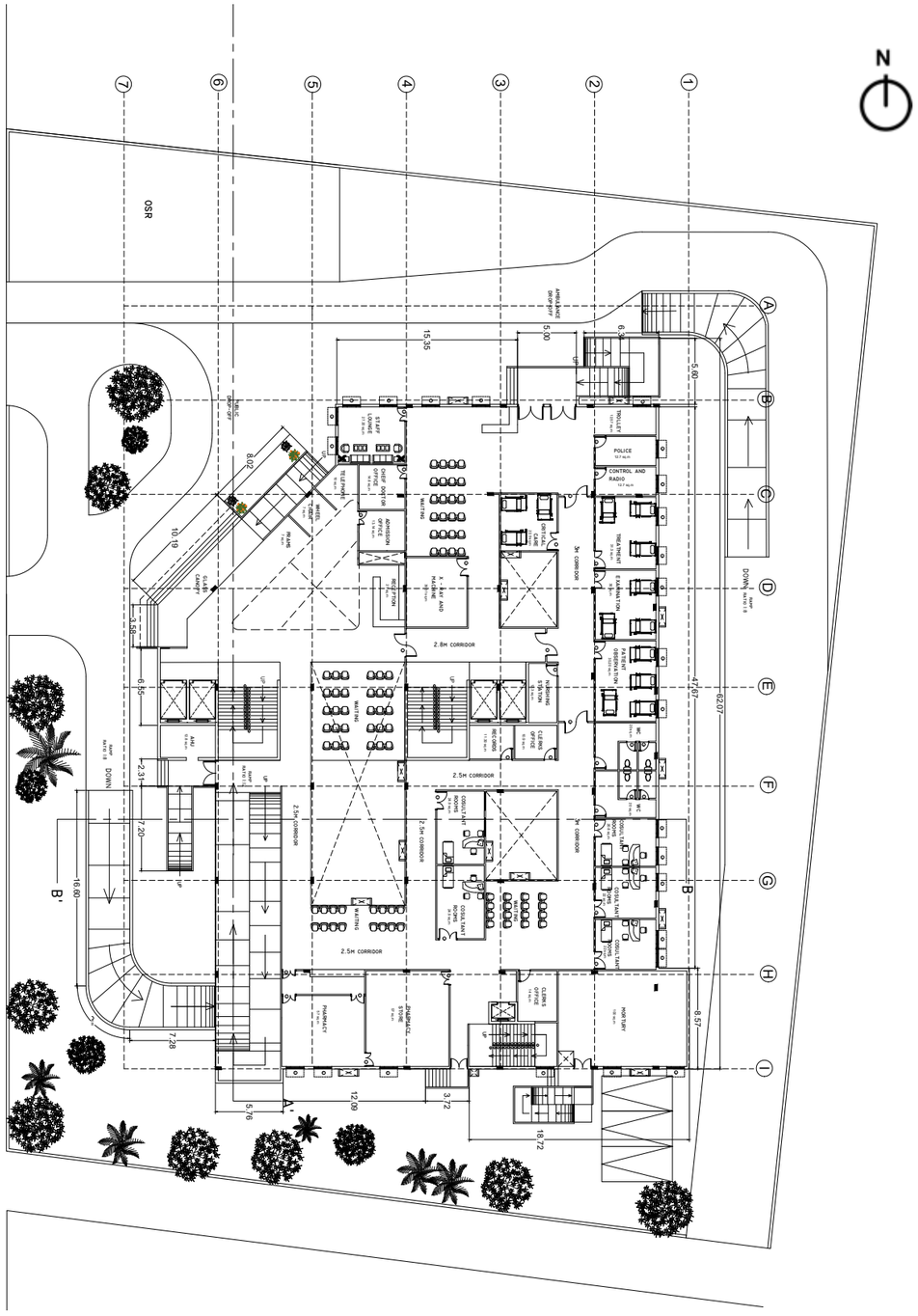
From the entrance users can directly see the reception so they can reach to their destination without any confusion. There are several zones are separated for the users, staffs and staff cum users. In multi-specialty hospital there are space that should be consider as a sterilized space, not sterilized space.



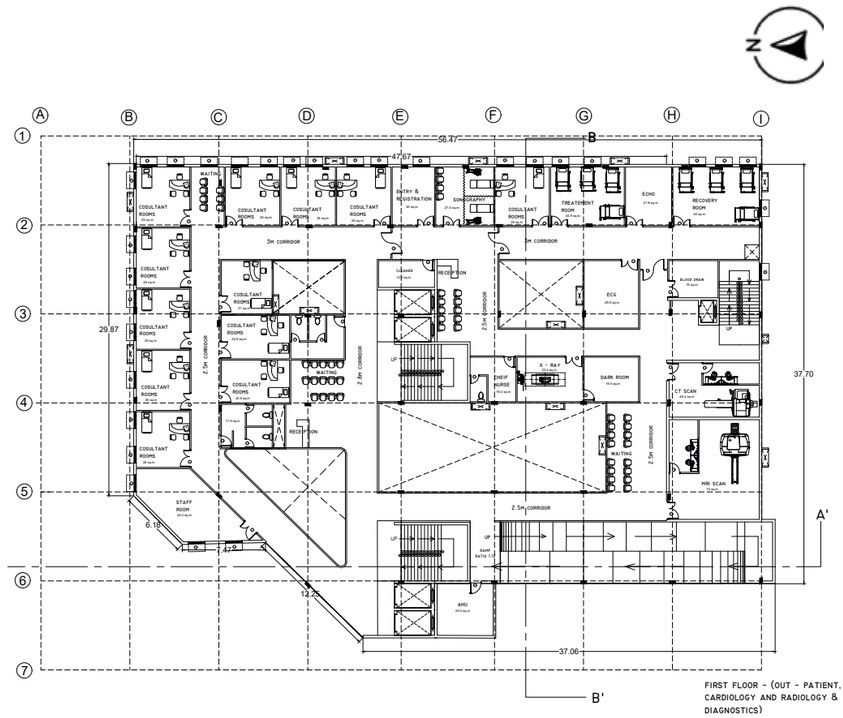
DEPARTMENTS :

- Radiology and diagnostics
- Laboratory
- Emergency
- Maternity
- Operation theatre
- General wards
- Out patient consulting area (Cardiology, Orthopedic and pediatrics)

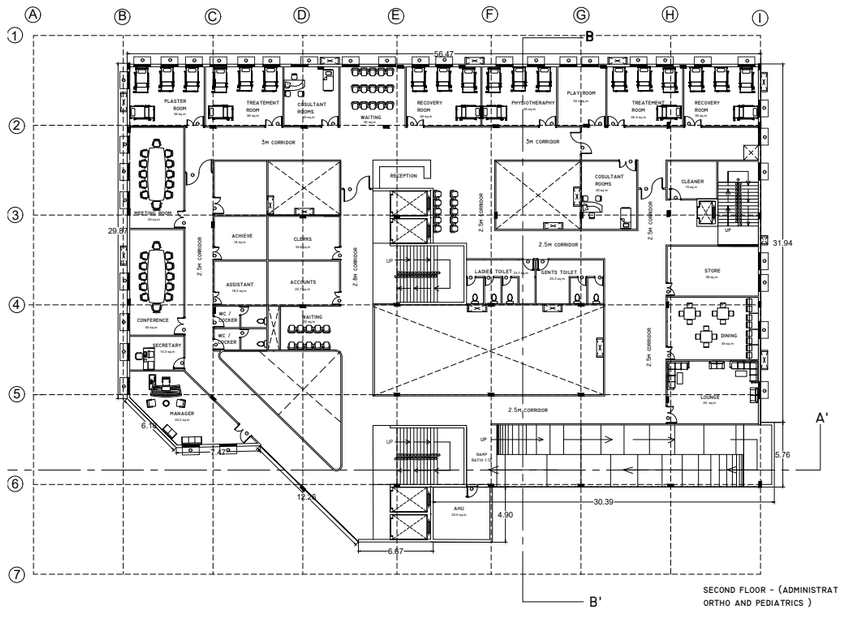
The Multi-speciality hospital has all the mentioned departments and it is designed providing the sterile and non sterile separation. The multi-speciality hospital is designed in way to get maximum sunlight through out the building. The hospital has a ramp which connects to all the floors in the building it can also be use as a fire exit in case of emergency.



In ground floor emergency department, several out patients area and consulting areas are provided. The first floor consists of other half of the out patient area and cosulting arae is provided and it also has the radiology and diagnostics department for easy access to every one and out patients canaot go further floors. The operation theatre is located on the top most floor in order to maintain sterilization. There is a separate core is provided for both patients and for staff members which connects all the floor. And the general wards are located in the middle three floors it has three modules of room (single bedded general ward, double bedded general ward and four bedded general ward).



FIRST FLOOR - (OUT - PATIENT, CARDIOLOGY AND RADIOLOGY & DIAGNOSTICS)



SECOND FLOOR - (ADMINISTRAT ORTHO AND PEDIATRICS)

NLC - MAIN ENTRANCE ARCH

Location : Neyveli, India...
Area : 2787 Sq. m
Project type : Commercial

The NLC India Limited (NLCIL) Main Entrance Arch is a remarkable gateway that seamlessly blends contemporary architecture with sustainable design principles. Designed with heavy vehicular access in mind, the arch's expansive dimensions facilitate seamless entry while fostering a welcoming atmosphere. Its unique twisted structure, finished in brilliant white paint and adorned with engraved patterns, enhances the overall visual appeal. The harmonious interplay of grey and white hues creates a sophisticated facade that embodies NLCIL's dedication to progress.

To execute this complex structure on the site. We came up with a solution: with the help of taking coordinates from the model and placing the structures in exact coordinates, this helps to construct the model as exact as designed.

After the coordinates have been taken, the entire arch has been fabricated in the steel frame, which helps to pour concrete and also set the concrete with a vibrator, and it also gives the buttons the correct size. Once the curing process was done, they slowly removed the steel frame level by level.

There are almost 1500 buttons in the arch, and each and every button has been measured and executed in the same size. The whole arch is supported in the three column.

Also, the compound walls are designed to express the countinuity of the arch. And the wall mural in the every compound wall has been carefully crafted by sculptures. There were around 20 murals with repetative pattern. The wall murals was executed by printing the designa dn pattern in a 1:1 scale and the sculptures traced out from the printed sheet.

In between the wall mural the fountain wall has been designed with landscape which give pleasent and aeasthetic look to the entrance arch. Now this arch has been a landmark around the place.