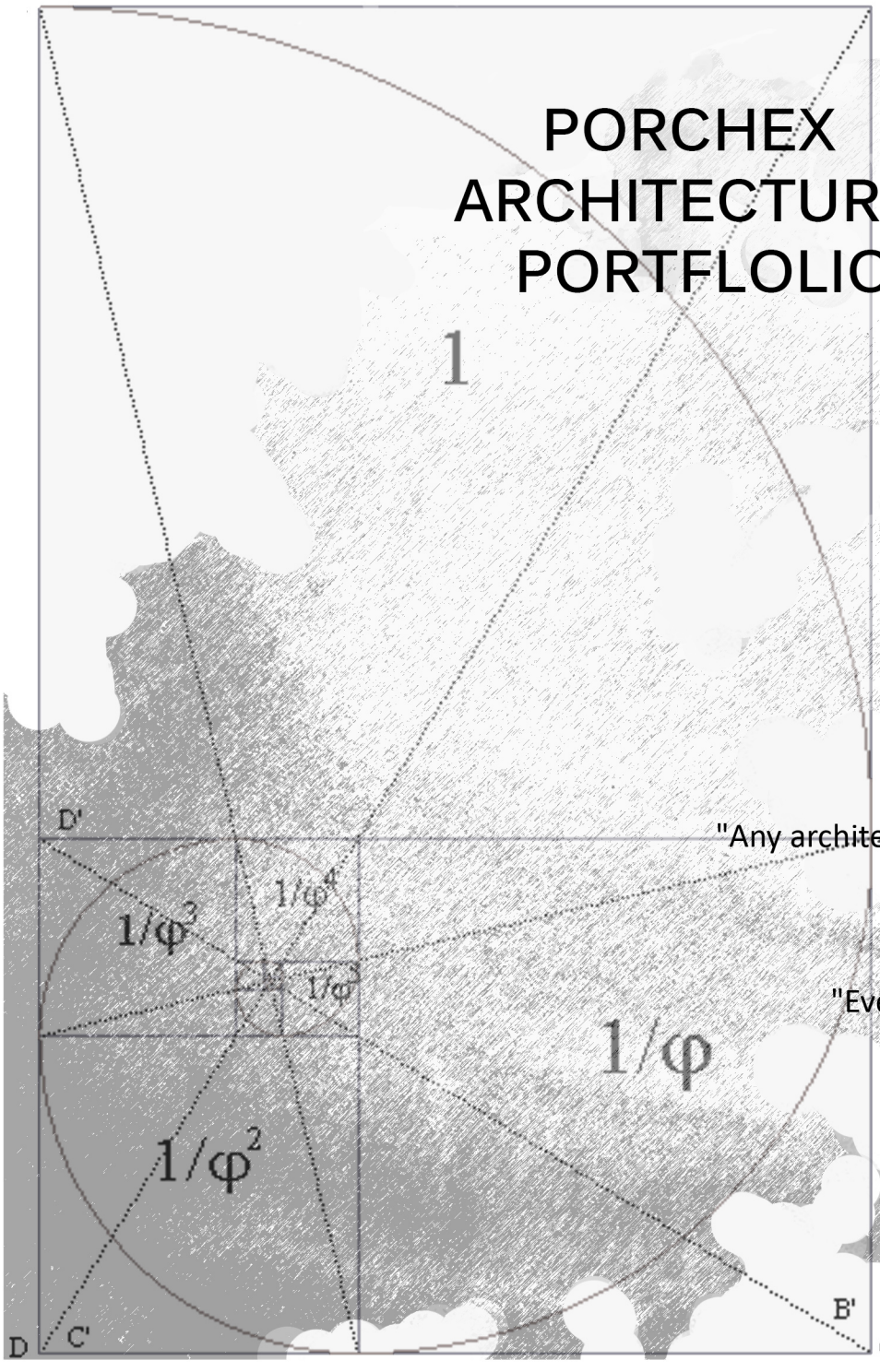
PORCHEX ARCHITECTURAL PORTFLOLIO



"A room is not a room without natural light."
– Louis Kahn

“Architecture should speak of its time and place, but yearn for timelessness.”
– Frank Gehry

"Any architectural work that does not express serenity is an error."
– Luis Barragán

"Even a brick wants to be something."
– Louis Kahn

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PORCHEX specializes in providing engineering and architectural services with economic design and excellent support. Our objectives are to combine all applicable problem solving skills in providing solutions that are functionally sound, economically feasible and sensible, while maintaining an equal commonplace of technical excellence.

PORCHEX started journey in 2015 with the specific purpose of providing specialized services in engineering and architectural field. Our team of specialists and skilled engineers and other skilled staff who are gaining expertise from past decade within the field of engineering and architecture. In order to supply excellent quality service,we do complete planning and designing of project-related task that's ready after complete understanding of the client's demand.

PORCHEX started their journey with the specific purpose of providing specialized services in engineering field.

For complete turn key to project manager, leave the building to our professionals. We have:

Registered Engineer
Registered Architect
Expert Designer
Expert Worker
Modern Technology
Happy Customers

Find Us

Level: 04,
House: 03, Road:01,
North Khulshi, Chattogram-4225, Bnagladesh.

Level: 02, House: 491, Road: 32,
Mohakhali DOHS, Dhaka-1212, Bnagladesh.

01 Esq, H: 07, St: R Dos Cavaleiros,
Lisbon-1100-132, Portugal.

58 Monstersestraat, 2512 PB,
Den Haag, Netherlands.

+880-1841-516069

info@porchex.com.bd

Since the 1980s, as the complexity of buildings began to increase, the field of architecture became multi-disciplinary with specializations for each project type and technological expertise.PORCHEX specializes in providing engineering and architectural services with economic design and excellent support. Our objectives are to combine all applicable problem solving skills in providing solutions that are functionally sound, economically feasible and sensible, while maintaining an equal commonplace of technical excellence.

— Architecture services

Unified Facilities Criteria (UFC) Master Plan
Urban Codes
City Planning
Concept Drawing
Architectural Plans
Functional Space Design
Building Plans
Landscape Design
Exterior Façade Design
Blueprint Drafting
Architectural Drafting
Construction Drawings
CAD Draftings
2D Architectural Visualizations
3D Modeling
3d Visualization
3D Rendering
Facility Optimization
Architecture Strategy
Architectural Consultation

— Interior services

Interior design is the art and science of enhancing the interiors,
sometimes including the exterior, of a space.
Concept Drawing
Interior Design
Functional Space Design
Furniture Selection
Furniture Design
Furniture Placements
Residential Design
Retail Showroom Design
Commercial Space Design
3D Visualization
Facility Optimization
Interior Production
Construction
Interior Design Consultation

— Engineering services

Engineering design provides all the crucial information about project, material quality, and more to ensure that the project is built to be safe and sound.
RCC Structure Design
Steel Structure Design
MEP Design
Sanitation Plumbing Design
Structural Retrofit Design
Residential Electrical Plan
Industrial Electrical Plan
Electrical Automation Design
Steel Structur Detailing
Working Drawings
CAD Draftings
Project Estimation
Steel Fabrication Estimation
Construction Estimation
Electrical Estimation
Property Development Consultation
Construction Consultation

CORPORATE INFO AT A GLANCE

Name: Porchex
Head office:H#03, L#04, Mir RFH tower,
Near indianambessy, Habib lane,
khulshi,Chattogram.
Phone:01841516069
Website:www.porchex.com.bd
Company status: Proprietary
Contact information:
Mohammad Imtiaz Uddin
Chief Operating Officer
Imtiaz.porchex@gmail.com.bd
01752868527

Date of creation:25/09/2017

Areas of business:
1.civil engineering
2.Architecture consultancy
3.Structural engineering
4.Electrical engineering.
5.Fire and safety design and solutions.
6.Interior design and construction.
7.Lift and generator supply and installation.

Main service:
1.Engineering
2.Architecture
3.Interior

Principal customer industry and geography:
1.Individuals
2.Corporate offices
3.Industries
4.Developer Companies

OUR CLIENTS:

1.Md.Golam sorwar-**MD,Hakkani group.**
2.Anwarulislam- **DGM,Janata bank**
3.Ruhulamin-**GM,Star line paribahan.**
4.MD.belal Hossain-**Chairmen,New golden sports.**
5.Nurulwara-**Program assistant(PA),Saarc agriculture information center(SAIC).**
6.Md.Shahakharujjaman-**Section officer, Register office , Khulna university.**
7.Shahedulislam-**CEO, Confidence associate.**
8.Zesmu Zaman- **Propritor,GS textile support.**
9.Md.minhaj Uddin-**Manager ,Sidratulmuntaha International.**
10.Parthosharathidobey-**Assistant officer,International NGO.**
11.Md.Arifur Rahman-**GM,Dunkindonuts,NewYork,USA.**
12.KaziShibli Noman-**Charterd accountant.**
13.Md.Salauddin-**Businessman**
14..MD.Raihanparvez- **Propritor,R.s trading**
15.MaksudurRahaman-**Propritor,MAA machinery Chittagong.**
18.Lutfunnahar-**Assistant teacher,Kapasgola primary girls school.**
19.**Hakkani group corporate office.**
20.**Catholic club Chittagong.**
21.**Agni limited.**
22.**Secure city center.**
23.**Sagorika public school.**
24.**Skytel communication limited.**

KEY PERSONS

Engr. Riaz Mahmud Robin,CEO,
Reg. Engr. CDA
Member, IEB| Member, IDEB.
Mr. Riaz Mahmud Robin has completed his B.Sc. in Civil Engineering with major in Structure form Stamford University Bangladesh and completed professional degree in Construction Technology from the country's leading polytechnicinstitute Bangladesh Sweden Polytechnic Institute, Kaptai. He has 10years of experience in this field Civil Engineering field. In his career, he has worked for AbulKhair Group, Way on Group, and couple of reputed companies.

Mohammad Imtiaz Uddin,COO,
Member, IDEB.
Mr. Imtiaz Uddin has completed his B.Sc. in EEE form a reputed private university and completed his professional degree in Electrical Technology from Chittagong Polytechnic Institute. He has 09years of experience in his field.
In his career, he has worked for Clifton Group and BAT (British American Tobacco Bangladesh)

Azad Baig Raju,HBD,
Business Development,
Mr. Azad Baig Raju has completed his graduation fromLincoln University College, Malaysia. He worked in accounts and finance department of a private farm in Malaysia for 03years.

Engr. Hadi Md AsadUllah,HGD,
HR & Admin,
Member, IEB
Hadi Md AsadUllah has completed hisM.Sc. in Real Estate and Facility Management from Saxion University of Applied Science, Netherlandsand B.Sc. in Civil Engineering form Stamford University Bangladesh. He has 02years of experience in this field. In his career, he has worked for CREC (China Railway Construction Engineering Group).

Kazi Md. Shibli Noman ,CA,
Accounts, Purchase & Supply,
Mr. Kazi Md. Shibli Noman has completed his MBA in Accounting from National University Bangladesh and completed professional degree of Chartered Accountants from The Institute of Chartered Accountants of Bangladesh. He has 10years of experience in accounting, company formation, asset valuation, consultancy and relevant field. In his career, he has worked forBanglalink, Robi, Akij Group, Infinia Group, Confidence Cement, and couple of reputed companies.

Arch. Ratul Sen ,Senior Architect,
Architecture Dept.,AMIAB.
Mr. Ratul Sen has completed his Bachelor of Architect form CUET. He has 09years of experience in his field. In his career, he has worked for several reputed companies. He has experience in working with international clients from USA,Canada, India and Cambodia.He had been a major part of projects of national and international organizations.

Mohammad Mohiuddin
Project Engineer,Engineering Dept.
Mr. Mohammad Mohiuddin has completed professional degree in Construction Technology from the country's leading polytechnic institute, Bangladesh Sweden Polytechnic Institute, Kaptai. He has 11years of experience in engineering field. In his career, he has worked for KDS Group, T.K Group,Habib Group.

Engr. Mofizul Hossain
Project Engineer, Engineering Dept.
Member, IEB.
Mr. Mofizul Hossain has completed B.Sc. in Civil Engineering form CUET. He has 05years of experience in engineering field. In his career, he has worked for Mir Akhter Hossain Ltd, LGED (LKSS) at Small Scale Sustainable Water Resources Development Project.

Mohammad Ariful Hasan
ABCLicence 67/17699,Fire & Safety Consultant
Mr. Arifulhassan has completed his B.Sc. in EEE from a reputed private university and he has 05years experience in fire safety and electrical safety engineering. He has worked for a reputed consultancy firm and Clifton Group as a Safety engineer.

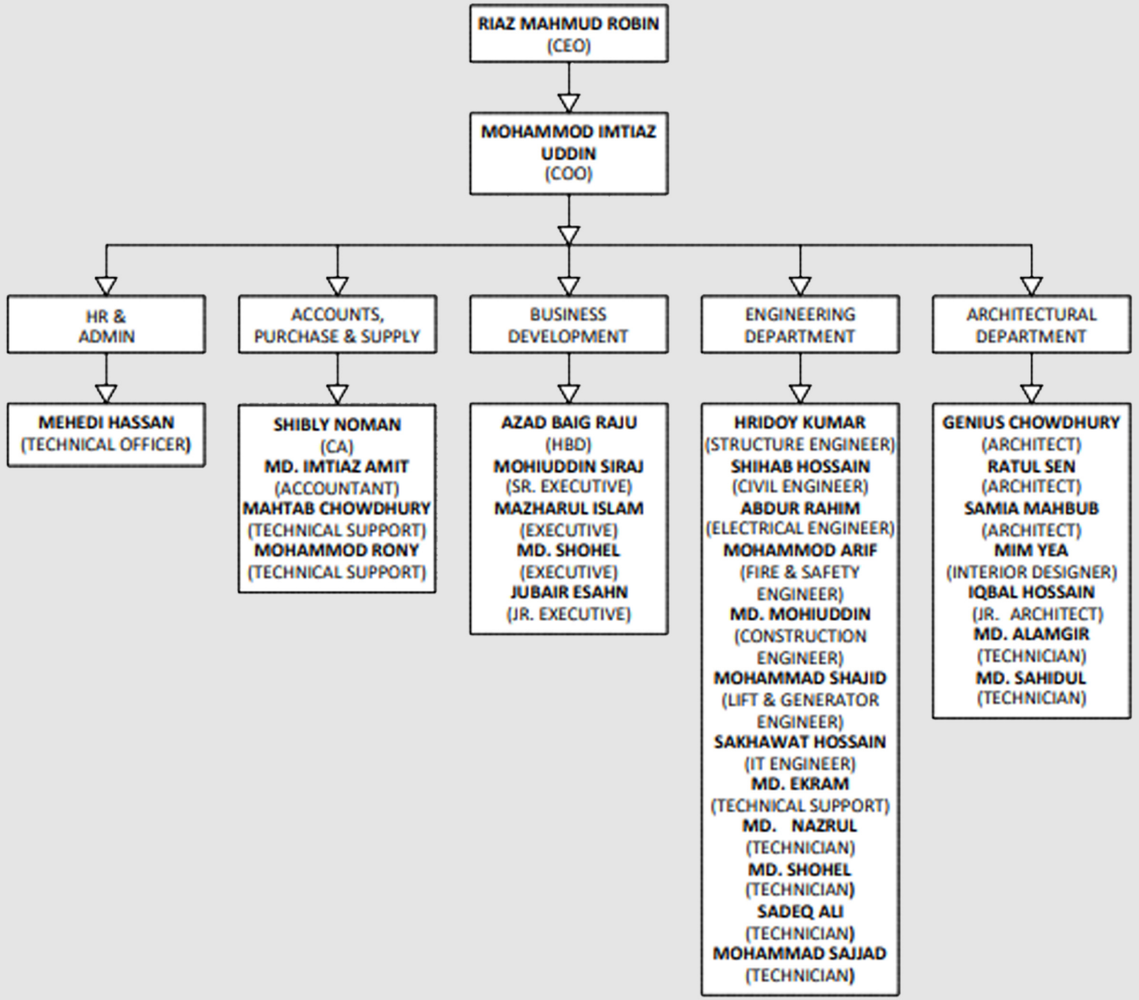
Engr. Shajedulazam
Senior Executive (Sales and service)Engineering Dept.
Member, IEB.
Md ShajedulAzam has completed B.Sc. in Electrical & Electronic Engineering from International Islamic University Chittagong that one of the most popular and reputed private University in Bangladesh. He has 07years professional experience on Elevator & Escalator industry.

Mohammad Iqbal
Architect.Arch. Dept
Iqbal Hossain has completed professional degree in Architecture and interior design Technology from the country's leading polytechnic institute, Luxmipur polythene Institute, luxmipur. He has 05years of experience in engineering field. In his career, he has worked for Clifton Group.

Engr. ShakhawatHossen,Senior IT Officer,IT Dept.,
Member, IEB.
Mr. ShakhawatHossen has completed his B.Sc. in Electronics and Telecommunications Engineering from International Islamic UniversityChattogram. He has almost, 05years of experience in IT and Networking Infrastructure Development. In his career, he has worked for Velocity Internet, Alpha Networks Ltd, T.K Group.

MD MohiuddinSiraj
Senior Executive,Business Development
MD MohiuddinSiraj graduated from IIUC with a BBA and an MBA in marketing. He has 02years of marketing experience. He has been successful in the last 10years at passing leadership and social activities.

COMPANY STRUCTURE



Project Name: 1Storied Residential Building

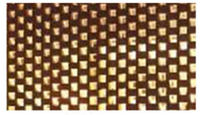
Location:B Baria.

The project comprises of single 4 bed with living,dining,3 toilets, a kitchen and 3 balconies.

Brick texture,brick jalis and fair faced concrete have been considered for facade.

A layer of green vegetation is done for natural screening.

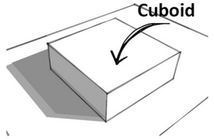
Fair Faced Concrete



Brick jali

MASS MODELS

-Form articulation
-Purity of Form
-Invisible volume
-Green insertion
-Square mass



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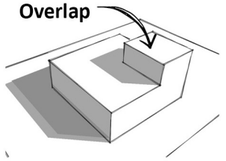

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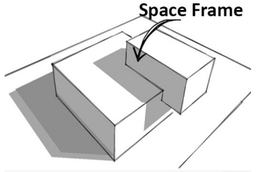

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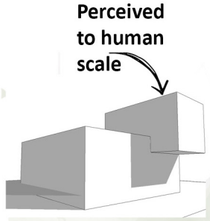

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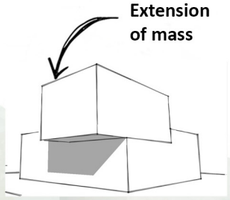

5.

3D PERSPECTIVE

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In architecture, a form is a three-dimensional object or building that is perceived by a viewer in space and time, and made possible by the action of light and shadow. For example, a building may be said to present a complex, geometric form on the skyline. However,
a form cannot be two-dimensional as it will then merely be a shape

Residential building includes all buildings intended for private occupancy whether on a permanent basis or not. Dwellings are divided into the following types:
single-family, mobile, cottage, semi-detached, row house and apartment building.

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Plato's Theory of Forms relies on the dichotomy between the physical realm and what Plato termed the realm of forms. The physical realm is easy enough to understand: it is the world that people inhabit. It is full of tangible objects and it is the only world that people ever actually experience during their lifetimes.

The term, ‘form’ can also mean a mould, i.e for holding a liquid or semi-plastic material in a particular shape until it sets. Hence, in construction, formwork is used to create shapes and designs, e.g supporting in-situ concrete until it cures to form walls and floors, etc.

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PLAN

Formwork is the term used for the process of creating a temporary mould into which concrete is poured and formed.
Traditional formwork is fabricated using timber, but it can also be constructed from steel, glass fibre reinforced plastics and other materials.
While formwork is a broad term that is used in relation to the forming process using a wide variety of materials, shuttering is a term that is often used to refer to the process of using plywood to form the mould.

ELEVATION

SECTION

Project Name: 2 Storied Apartment Building

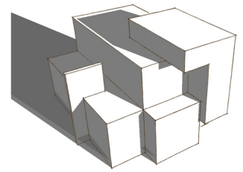
Name:Uzzal Hossain
Location:Manikganj

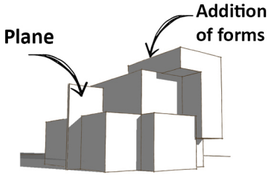
The project consists of 3 bedrooms, 1 living+dining,2 toilet at ground floor and a bedroom with semi-open sitting area,open terrace and roof garden at 1st floor.

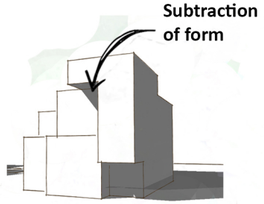
Living space is provided with front green lawn area.

Forms subtraction and addition has been the prime concept while developing mass models.

MASS MODELS







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1ST FLOOR PLAN

GROUND FLOOR PLAN

A home is a relation between materiality and mastery and imaginative processes, where the physical location and materiality and the feelings and ideas are united and influence each other, instead of being separated and distinct.
A house is a process of creation and comprehension of ways of living and belonging. A house is lived , as well as imagined. The meaning of house and the way it materially manifests itself, it´s something that is created and recreated in an unceasingly way through every day domestic tasks, which are themselves connected to the spacial imaginary of the house.

simple etymological analysis of the words, one can verify – in home – an aspect that, saying particularly anything, it says it all. The concept of home is associated to some transcendence
that others synonyms of house, such as domicile.

Project Name: 4 Storied Apartment Building

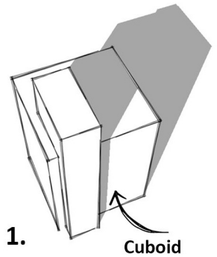
Name:Colonel hat
Location:Chittagong

The project comprises of single 2 bed with living,dining,2 toilets, a kitchen and 3 balconies at each floor.Ground floor consists of shops,caretaker room and bike parking.

Brick texture and brick jalis has been considered for facade.

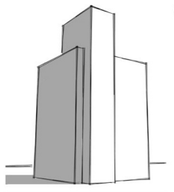
A layer of green vegetation is done for natural screening.

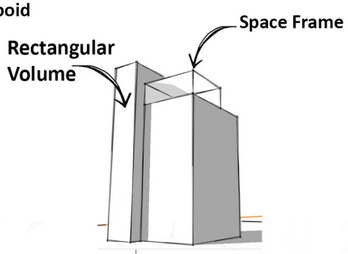
Brick jali

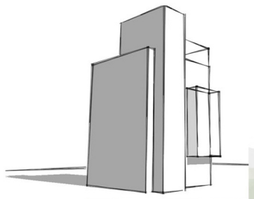


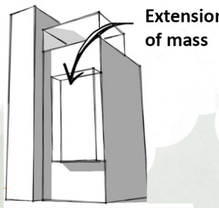
MASS MODELS

-Form interlocking
-Mass extension
-Invisible volume
-Green insertion
-Juxtaposition

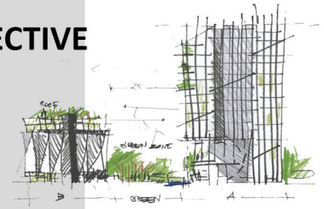


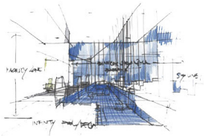






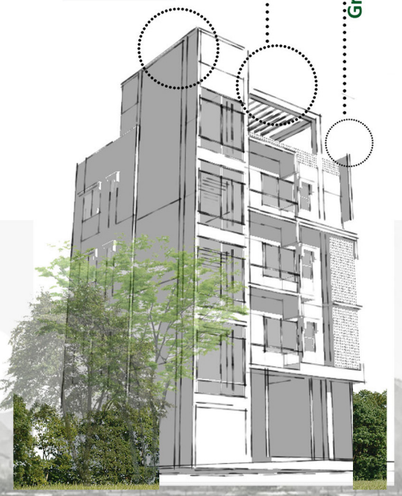
3D PERSPECTIVE



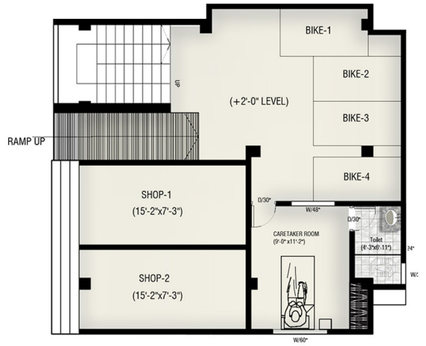


A minor consideration of green in building develops major concern in urban form

The most common form of occupancy of apartment houses has been on a rental basis. However, multiple ownership of units on a single site has become much more common in the 20th century. Such ownership can take the form of cooperatives.

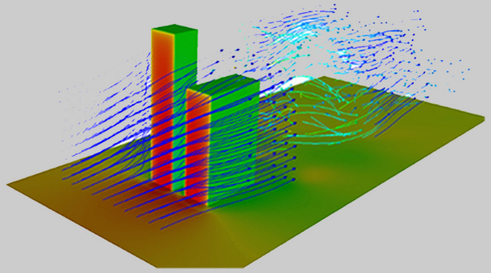


1ST FLOOR PLAN

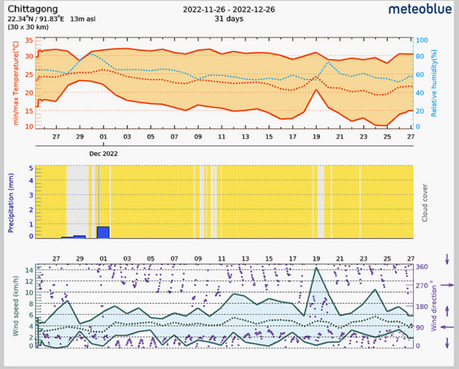


GROUND FLOOR PLAN

Climatic simulation



Form analysis



Data analysis

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Project Name: 5 Storied Apartment Building

Client :Ahmedur Rahman.
Location:Chattogram.
Land area:1700sft.

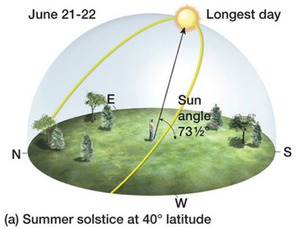
The project consists of parking and a residential unit at ground floor.Other apartments for rent has been accomodated in typical floors with a spacious unit for landlord.

Natural light with adequate cross-ventilation has been considered.

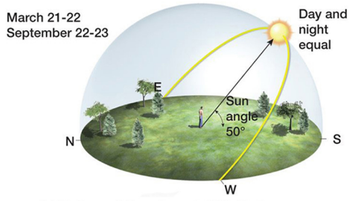
Fire safety has been considered for occupants.

In addition to these,Structural safety has been the prime concern.

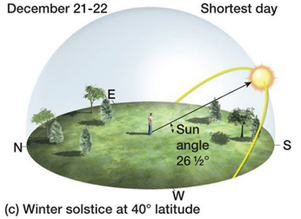
In facade design,Interlocking of planes has played a dramatic role.



(a) Summer solstice at 40° latitude



(b) Spring or fall equinox at 40° latitude



(c) Winter solstice at 40° latitude

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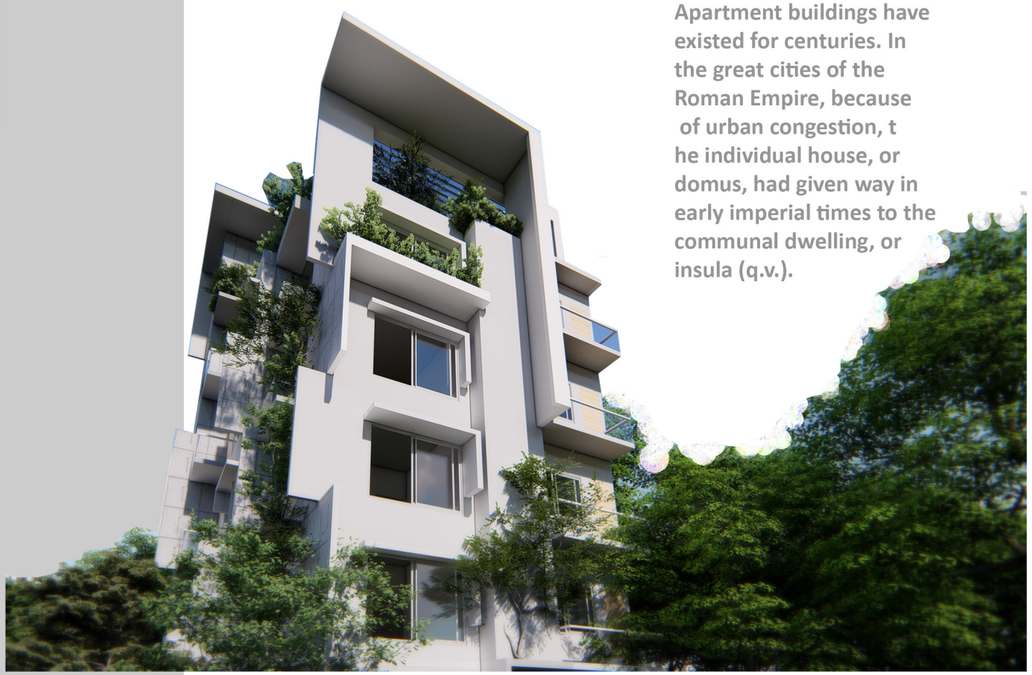
Mass Formation

1

2

Apartment house, also called apartment block, or block of flats, building containing more than one dwelling unit, most of which are designed for domestic use, but sometimes including shops and other nonresidential f eatures.

Apartment buildings have existed for centuries. In the great cities of the Roman Empire, because of urban congestion, t he individual house, or domus, had given way in early imperial times to the communal dwelling, or insula (q.v.).



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CONSIDERATIONS

Eco-Friendly

Fire Safety

Rainwater Harvesting

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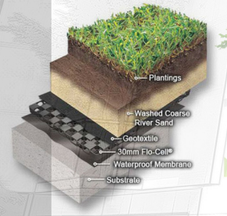
GROUND FLOOR

-5 BIKE PARKING
-1 CARETAKER UNIT
-1 RENT UNIT

TYPICAL FLOOR

-2 RENT UNIT
EACH FLOOR
-1 OWNER'S UNIT
(3 BED,LIVING.
DINING,KITCHEN,
3 TOILET)

TYPICAL FLOOR



TYPICAL ROOFTOP GARDEN DETAIL

SECTION

porchex

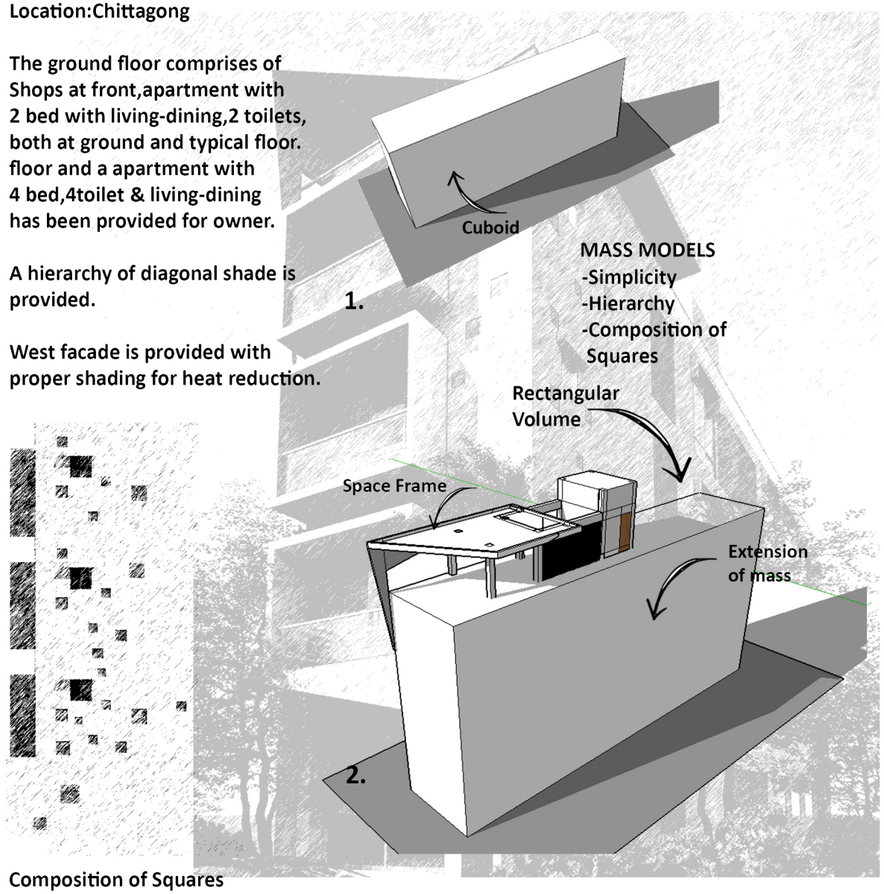
Project Name: 4 Storied Apartment Building

Name:Colonel hat
Location:Chittagong

The ground floor comprises of Shops at front,apartment with 2 bed with living-dining,2 toilets, both at ground and typical floor. floor and a apartment with 4 bed,4toilet & living-dining has been provided for owner.

A hierarchy of diagonal shade is provided.

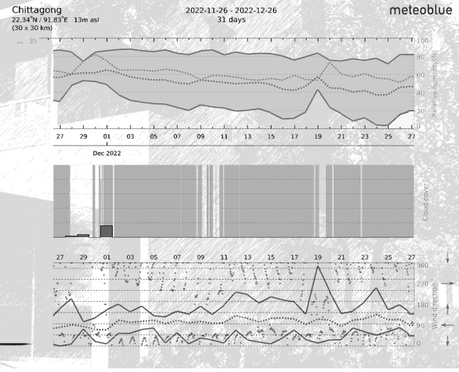
West facade is provided with proper shading for heat reduction.



Composition of Squares

TYPICAL FLOOR PLAN

West Elevation

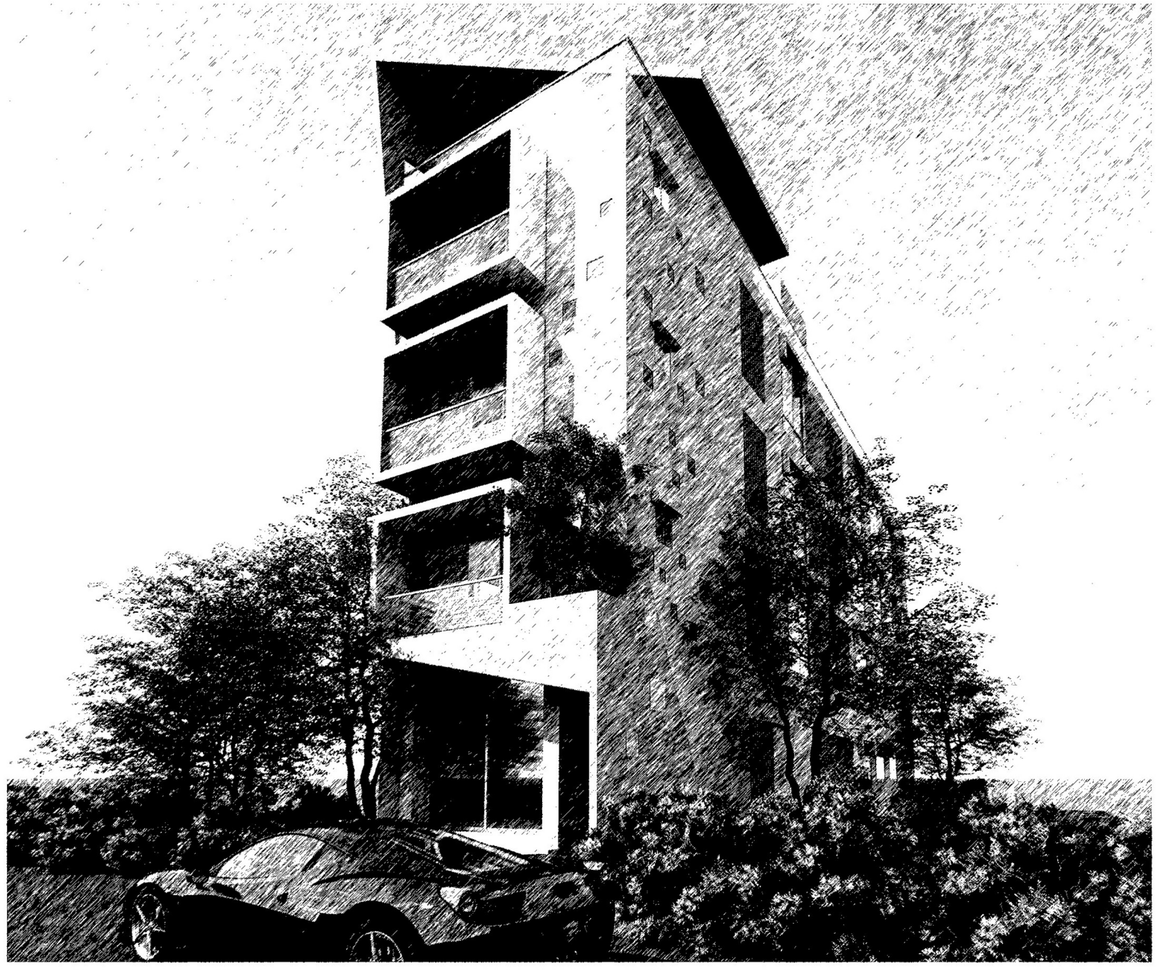


Data analysis

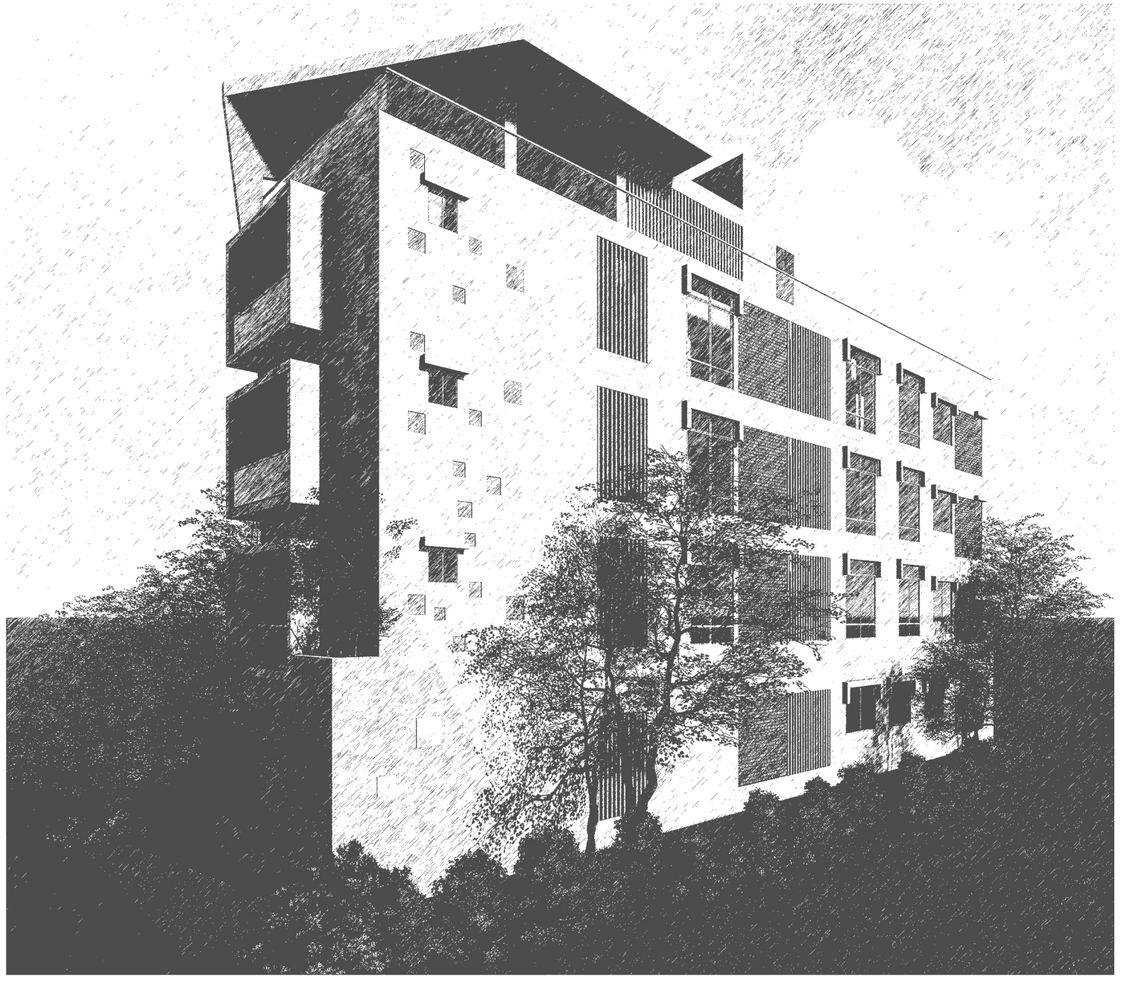
3D PERSPECTIVE

Buildings first evolved from a need for shelter, security, places for worship, places for congregation, and so on. The way that these needs were satisfied using the available materials, space and skills gave rise to a wide range of building techniques and styles.

porchex



porchex



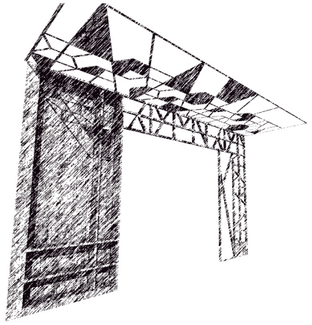
Project Name:Apartment Interior Design

Location:Chittagong

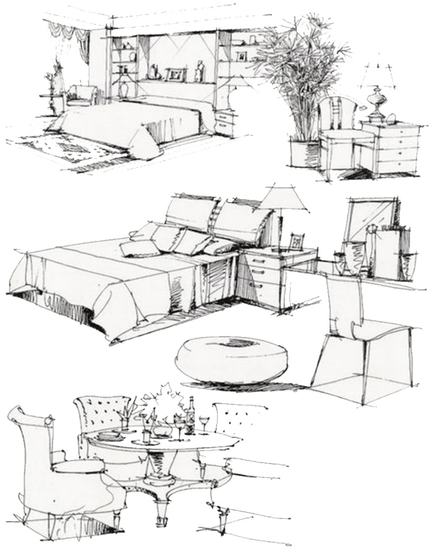
The project comprises of
3 bed with living,dining,3 toilets,
a kitchen and 3 balconies.

Wall paint is highly considered
for the project.

A watercolor texture effect is
considered in wall.



ENTRY CORRIDOR PANEL



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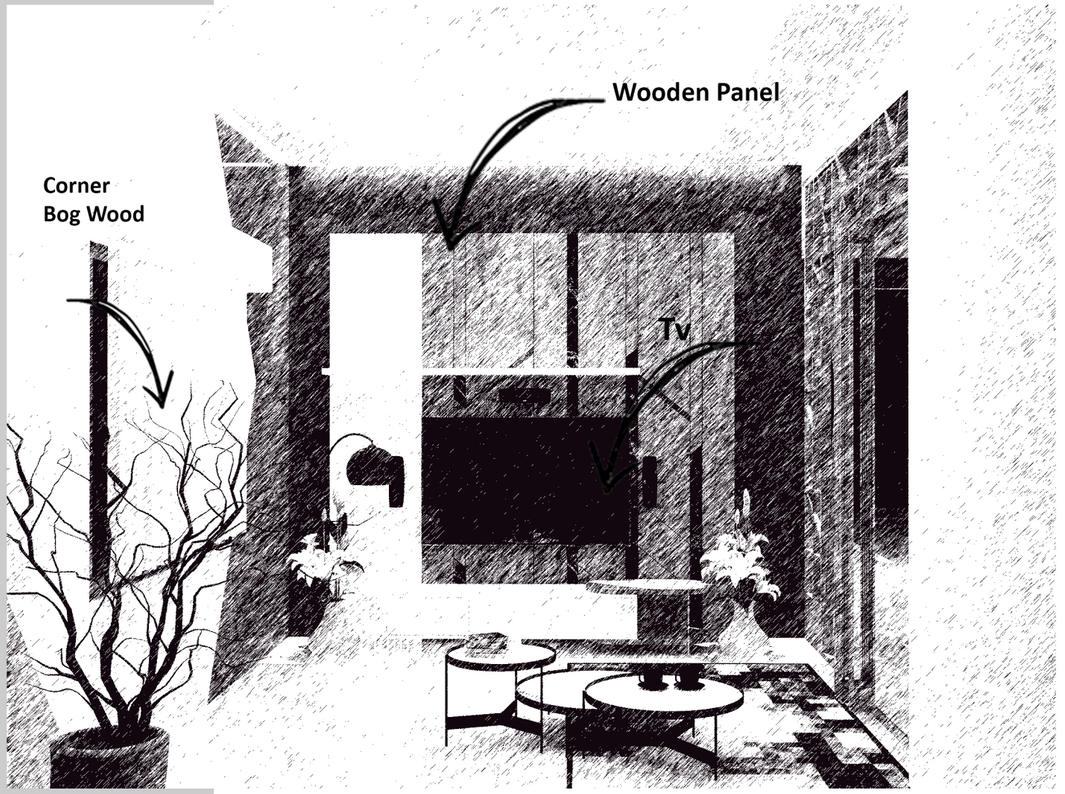
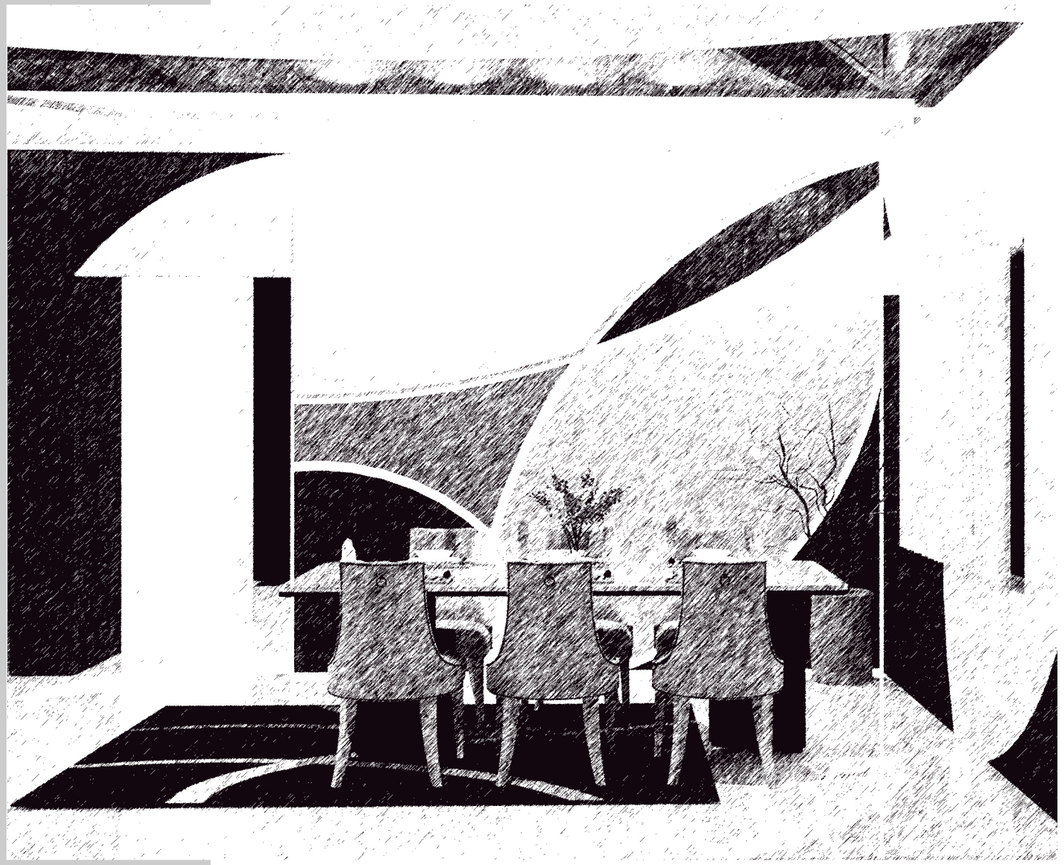


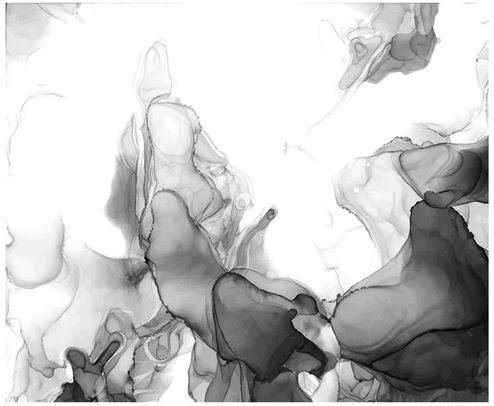
LIVING ROOM SKETCH

LIVING ROOM



DINING ROOM SKETCH

DINING ROOM



BED ROOM

Project Name: The Sierra(Triplex)

Location:Chittagong

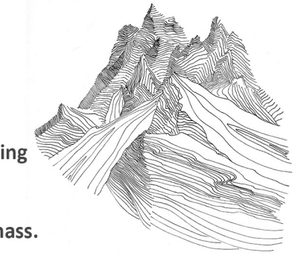
The basic concept derives from the concept of the progression of mountain that encompasses a courtyard space.

Inter-relation between nature and the interior has been given priority.

Serenity of nature has played a vital role in this project.

CONCEPT:

-Progression
-Serenity
-Courtyard
as common gathering
-Green insertion
-Diffusing natural
elements to built mass.



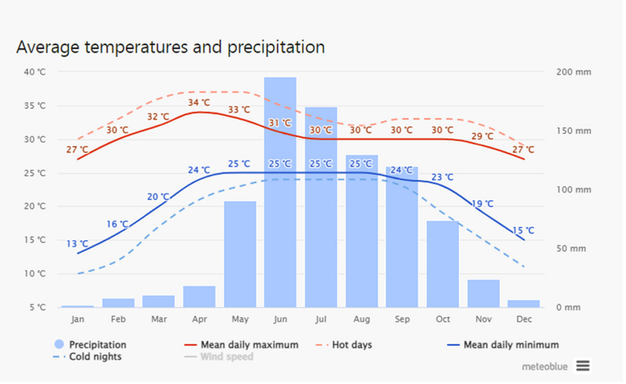
1st Phase Zoning

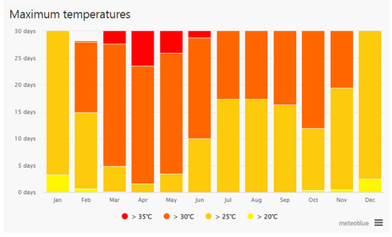
REFERENCES AND STUDIES

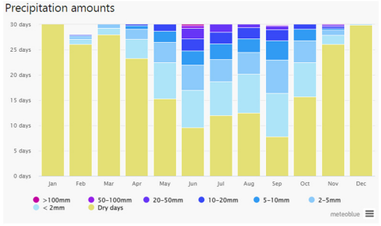
NATURAL ELEMENTS:

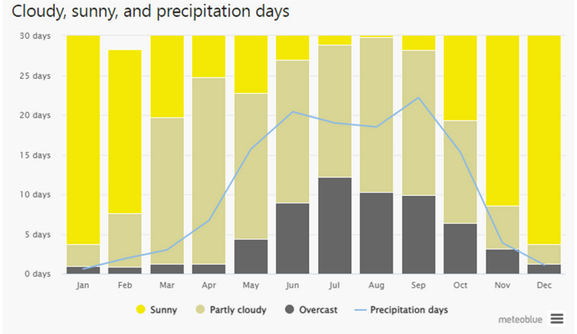
-Trees
-Grass
-Plants
-Stone
-Water
-Koi Fishes
-Pigeon.

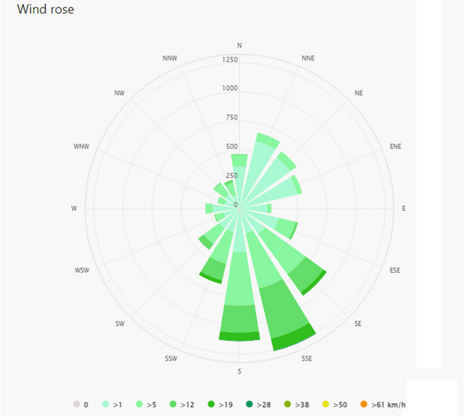
CLIMATIC DATA STUDIES:





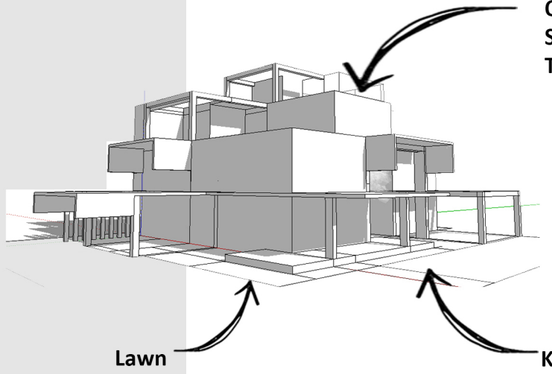


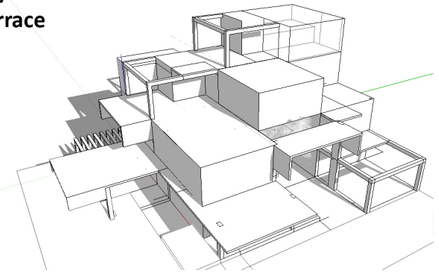


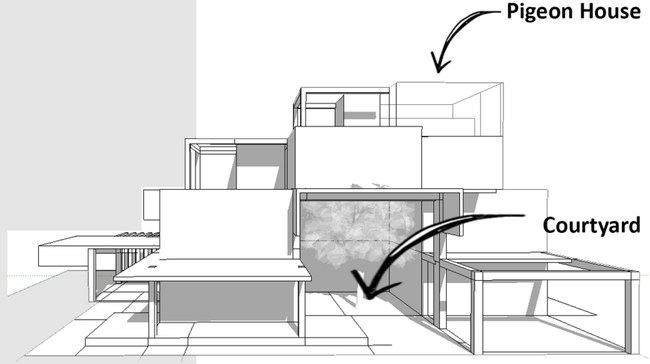


The diagram for Chittagong shows the days per month, during which the wind reaches a certain speed. An interesting example
is the Tibetan Plateau, where the monsoon creates steady strong
winds from December to April, and calm winds from June to October.

MASS DEVELOPMENT:

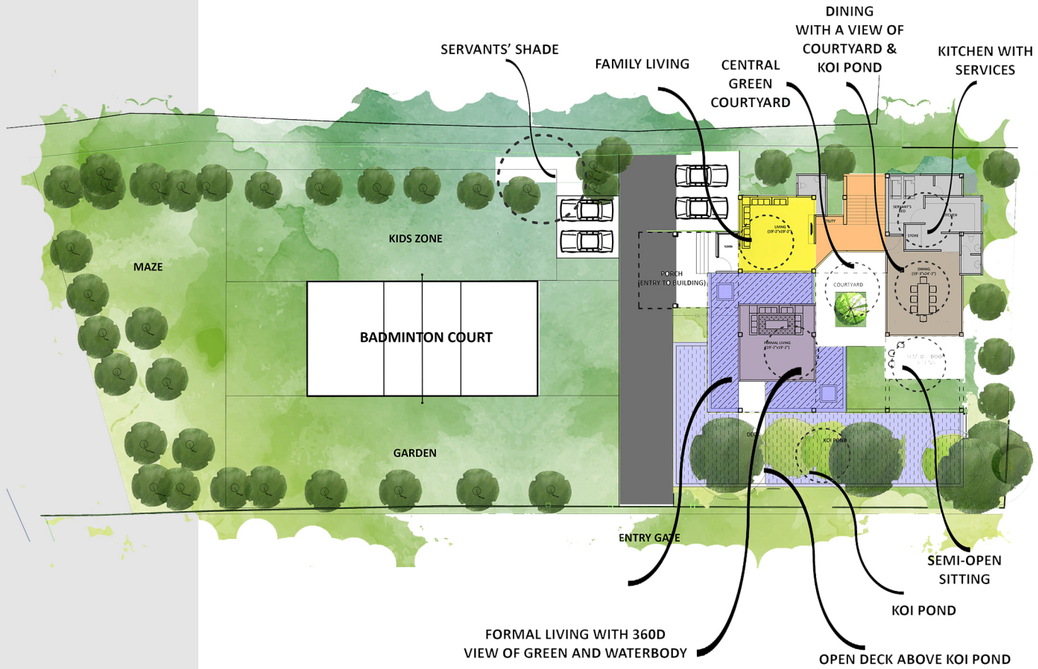






The mass is developed with harmony of nature.
An interactive communicative spaces between the nature with the interior spaces have been designed.
Every room is visually connected maintaining privacy.
A frontyard big lawn with seating spaces,walking soft pavement enhances the dimension to be with nature.

PHASE 2 DESIGN DEVELOPMENT :



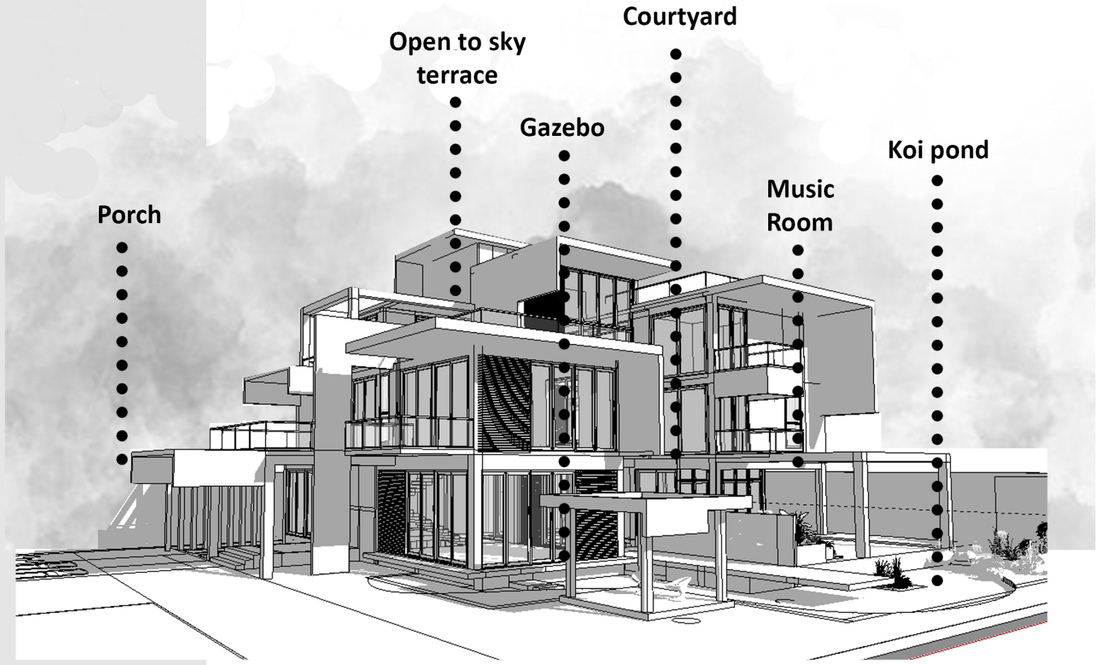
The entry is accomodated with a living space followed by a courtyard.Another formal living space is provided with lawn and gazebo.
A hanging deck has terminated to koi pond providing a refreshing natural touch with koi fishes.

And also a semi open sitting space with medium sized swimming pool is provided.

A music room with central courtyard and bbq deck has been considered. Natural Ventilation and lighting have played a major part

GROUND FLOOR PLAN ZONING

1ST FLOOR PLAN



Koi ponds are ponds used for holding koi carp, usually as part of a garden. Koi ponds can be designed specifically to promote health and growth of the Nishikigoi or Japanese Ornamental Carp. Koi ponds or lakes are a traditional feature of Japanese gardens,

Transcendentalist philosophers share the idea that humans and nature are equal forces of the earth that should be living in harmony. Such concepts have long been expressed in writings, from Ralph Waldo Emerson to Henry David Thoreau. In more recent years, this notion has expanded to the world of architecture with Frank Lloyd Wright coining the term “organic architecture” in the early 1900s.

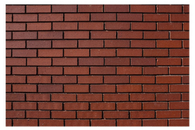
This form of architecture can be distinguished from more traditional styles by its peculiar characteristics. Amongst its core concepts is the idea that buildings, as any living organism, must grow from within its environment and adapt to it. The structure must therefore be designed as if it was molded by nature for and from that landscape. Likewise, the color scheme must derive from fields and woods to match the elements of nature.

Project Name: 2 Storied Residential Building

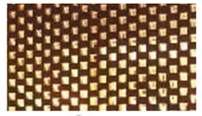
The project comprises of 2
bed rooms with living,dining,
2 toilets,
a kitchen and 3 balconies.

Exposed brick texture and
hidden expression of columns
have been considered for facade.

A open green space is provided
infront of building for relaxation.



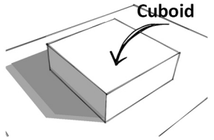
Exposed brick texture



Brick jali

MASS MODELS

-Form articulation
-Purity of Form
-Invisible volume
-Green insertion
-Square mass
-Unifomity of form



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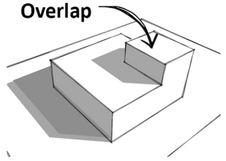

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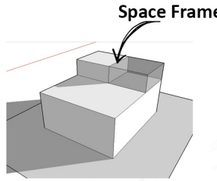

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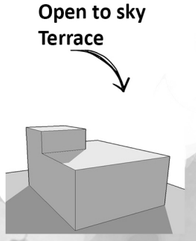

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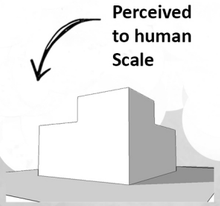


5.

3D PERSPECTIVE

Modernist architecture, or modernism, is a style that emerged in the early-20th century in response to large-scale changes in both technology and society. It is associated with the function of buildings, approached from an analytical viewpoint, a rational use of materials, the elimination of ornament and decoration, and openness to structural innovation.

Architect
Le Corbusier, who took inspiration for his buildings and urban designs from modern engineering developments such as passenger jets, cruise liners, automobiles, grain silos, and so on in his most famous book,
'Towards a New Architecture'

PLAN

Modernism developed across all artistic fields, not just architecture, as a means of accommodating and responding to the new technologies of machines, automation and urban design. The industrial revolution played a major role in the development of architecture that was driven by functional priority. Materials such as concrete, glass and steel were industrially manufactured prevailed in this era.

ELEVATION

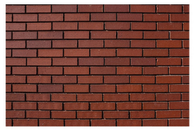
Project Name: 2 Storied Residential Building

Location:B Baria.

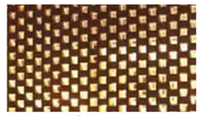
The project comprises of single bed room with living,dining, 2 toilets, a kitchen and 2 balconies.

Exposed brick texture and hidden expression of columns have been considered for facade.

A layer of green vegetation is done for natural screening.



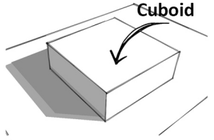
Exposed brick texture



Brick jali

MASS MODELS

-Form articulation
-Purity of Form
-Invisible volume
-Green insertion
-Square mass
-Unifomity of



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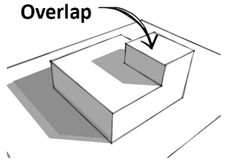

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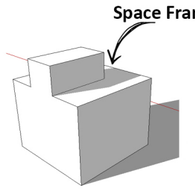

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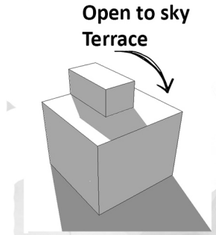

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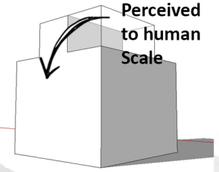


5.

3D PERSPECTIVE

In architecture, buildings were looked at as machines that are purely programmed by humans but do not evolve and develop by themselves. Herein, the concept of living architecture, where buildings can have souls and grow with their inhabitants, has been introduced.

Purity of essence in architecture means creating a building with what can be described as a functional soul (can engage with the user in intelligent conversation), while the purity of form is a soulless doll-like building (stunning looks but eventually obsolete.

PLAN

ELEVATION

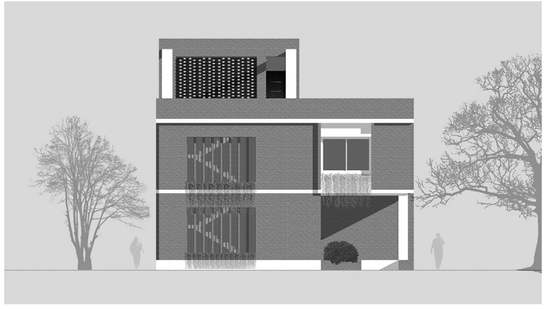
SECTION

Form refers to the shape or configuration of a building. Form and its opposite, space, constitute primary elements of architecture.
The reciprocal relationship is essential, given the intention of architecture to provide internal sheltered space for human occupation. Both form and space are given shape and scale in the design process. In addition, the placement of a building form in relation to its immediate site and neighboring buildings is another crucial aspect of this form/space relationship. Just as internal space is created by voids in building form, exterior space
can be defined
or poorly defined by the building
form as well..

EAST ELEVATION

NORTH ELEVATION

SOUTH ELEVATION



WEST ELEVATION

Formwork for beams takes the form of a three-sided box which is supported and propped in the correct position and to the desired level. The removal time for the formwork will vary with air temperature, humidity and consequent curing rate.

OFFICE INTERIOR DESIGN

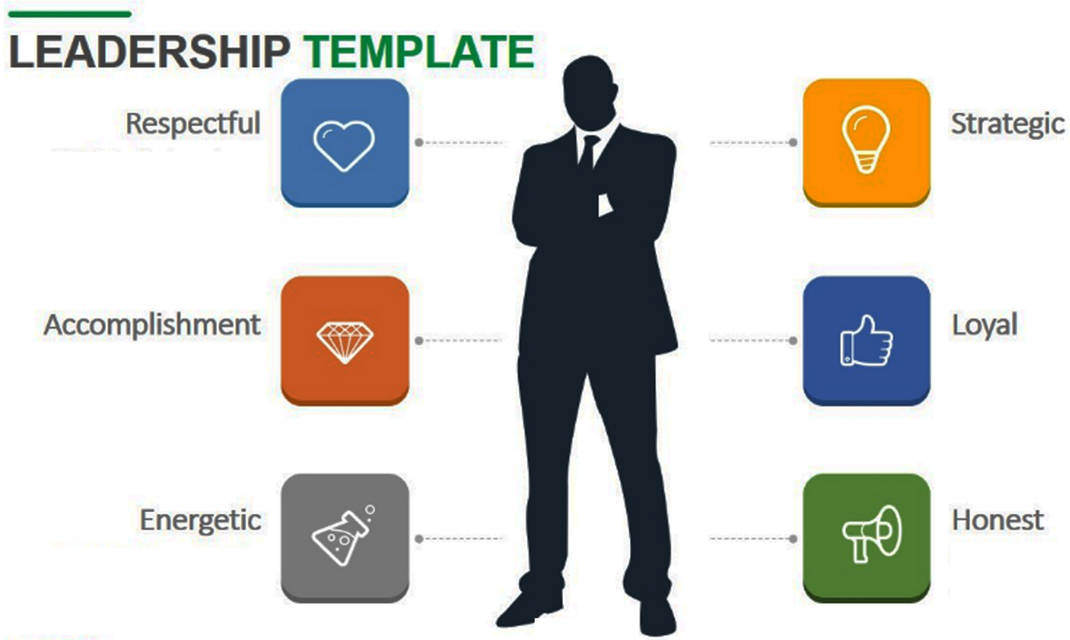
CLIENT:AGNI LTD

The Undeniable Potentials of Psychology of Office Design Impacts Employee & Workspace

Your attitude towards work is primarily affected by your office workspace design. Suppose the office design does not favor your employees' working style and fails to bring the best out of them.

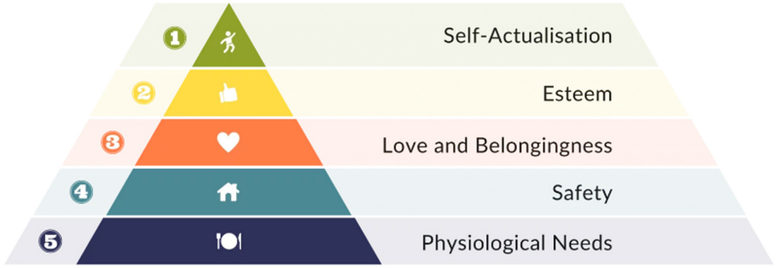
In that case, you'll see a considerable drop in productivity, work quality, and employee satisfaction. This concept is also backed by environmental psychology – the study of how individuals interact with their physical environment.

The theory behind the psychology of workspace design shows us how to a healthy work environment that ensures talent retention in the long run. Organizations are significantly i nvesting in employees' comfort and happiness. The simplest way to do that is by maintaining a work-life balance,.



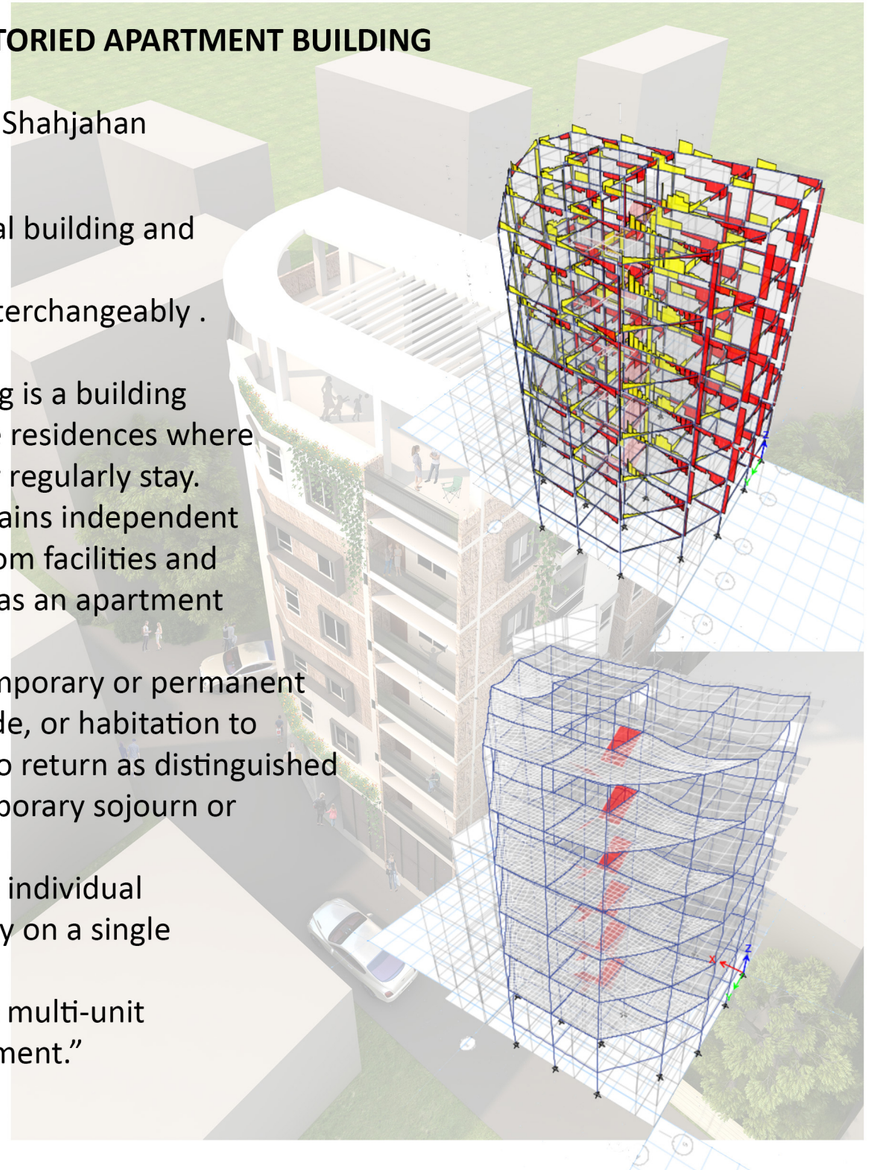
Furniture, fixtures, lighting, colors, common areas, etc., are some general features of every workspace. However, some offices are still more motivating and conducive to employ work style than others - the sole reason being mindfulness.

When designing your workspace, you have to be mindful of your furniture's placement, the color of the walls, the heights of the tables, the amount of ventilation, and a dozen other factors.



PROJECT NAME:6 STORIED APARTMENT BUILDING

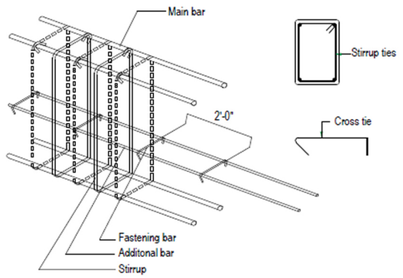
CLIENT:Mohammed Shahjahan



The terms residential building and apartment
building are used interchangeably .

A residential building is a building containing separate residences where a person may live or regularly stay. Each residence contains independent cooking and bathroom facilities and may also be known as an apartment or a condominium.
A residence is “a temporary or permanent dwelling place, abode, or habitation to which one intends to return as distinguished from a place of temporary sojourn or transient visit.”1
An apartment is “an individual dwelling unit, usually on a single level and
often contained in a multi-unit building or development.”

21. END HOOK OF STIRRUPS



END HOOKS OF STIRRUPS ARE LOCATED ALTERNATELY AT TOP CORNER BAR OF THE SECTION.

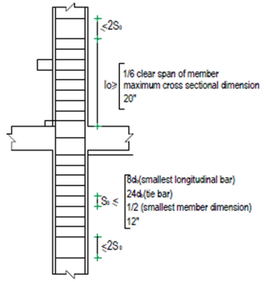
22. MAXIMUM BARS IN BEAMS IN SINGLE LAYER

MAXIMUM NUMBER OF BARS AS A SINGLE LAYER IN BEAM STEM SHALL BE AS PER ACI DETAILING MANUAL 1994.

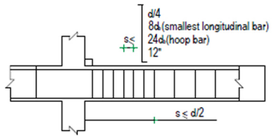
23. MINIMUM BAR SPACING OF COLUMN LONGITUDINAL BARS

CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL NOT BE LESS THAN 1.5 TIMES BAR DIAMETER, 1.5 TIMES OF THE MAXIMUM SIZE OF COARSE AGGREGATE NOR 1.5".

24. CONFINEMENT REQUIREMENTS OF COLUMN AT JOINTS FOR EARTHQUAKE LOADING



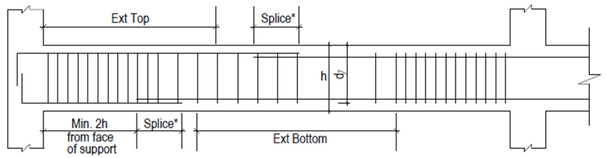
26. CONFINEMENT REQUIREMENTS OF BEAM AT JOINTS FOR EARTHQUAKE LOADING

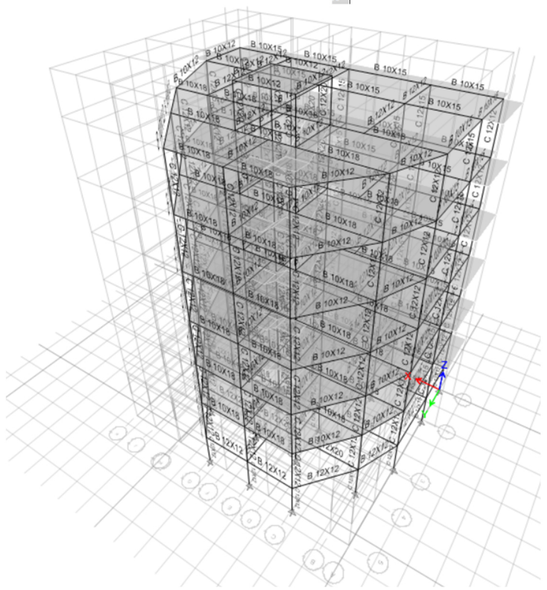


18. CONCRETE CLEAR COVER FOR REINFORCING BARS

Member	Location/Condition	Clear Cover(in)	Figure
BASEMENT SLAB	Side	2.5	
	Bottom	2.5	
Column	Above Ground	* 1.5	
	Below Ground	* 2.5	
Beam	top, side	** 1.5	
	bottom	** 1.5	
Slab and stair	Top and bottom	0.75	
Wall (above 10" except basement wall)	Exterior	1.5	
	Interior	1.5	
Water tank	Water face	2	
	Other face	2	

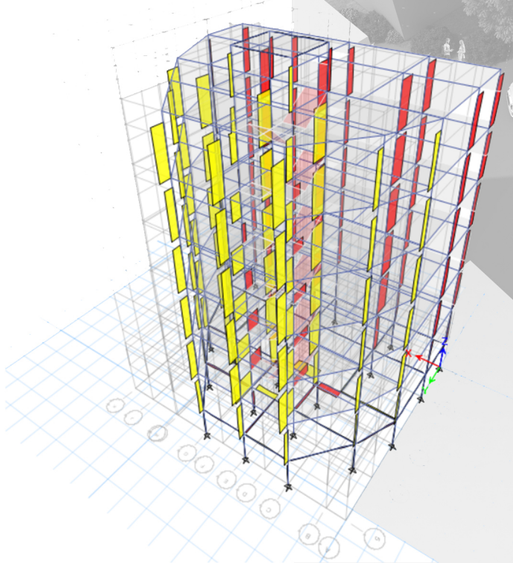
Beam ID	Support Section	Middle Section	Beam ID	Support Section	Middle Section
GB - 01	3-20mmØ St. 10mmØ @ 5" & 10mm c/c 2.5" Clear Cover 3-20mmØ St. 12" 12"	3-20mmØ St. 10mmØ @ 5" & 10mm c/c 2.5" Clear Cover 3-20mmØ St. 12" 12"	FB - 01	2-20mmØ St. 1-16mmØ Ext. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. 15" 10"	2-20mmØ St. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. 1-16mmØ Ext. 15" 10"
GB - 02	3-20mmØ St. 2-16mmØ Ext. 10mmØ @ 5" & 10mm c/c 2.5" Clear Cover 3-20mmØ St. 12" 12"	3-20mmØ St. 10mmØ @ 5" & 10mm c/c 2.5" Clear Cover 3-20mmØ St. 2-16mmØ Ext. 12" 12"	FB - 02	2-20mmØ St. 1-16mmØ Ext. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. 18" 10"	2-20mmØ St. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. 1-16mmØ Ext. 18" 10"
STB	3-16mmØ St. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 3-16mmØ St. 18" 10"	3-16mmØ St. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 3-16mmØ St. 18" 10"	FB - 03	2-20mmØ St. 2-16mmØ Ext. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. RLB 10"	2-20mmØ St. 10mmØ @ 5" & 10mm c/c 1.5" Clear Cover 2-20mmØ St. 2-16mmØ Ext. RLB 10"

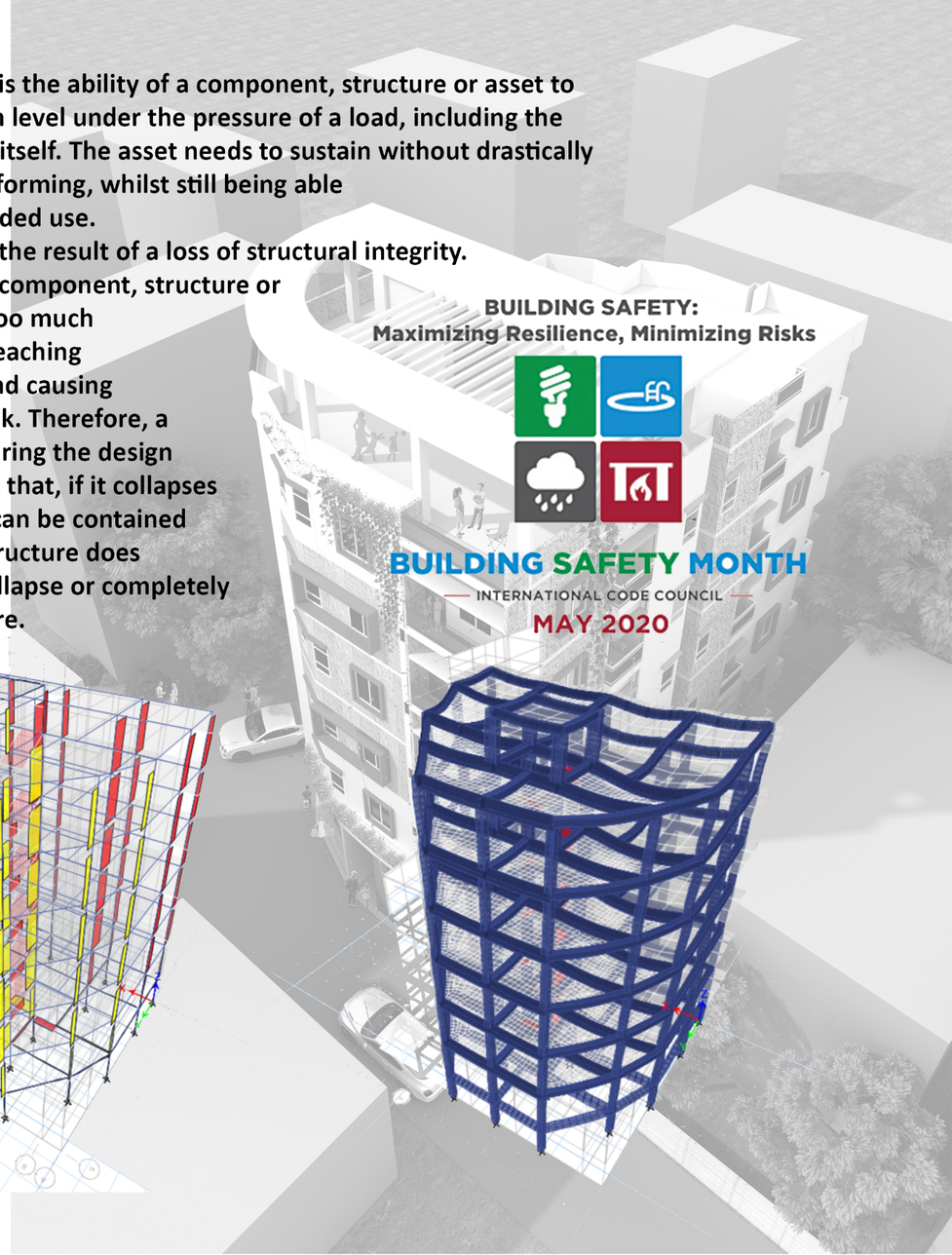




Structural Integrity is the ability of a component, structure or asset to operate at optimum level under the pressure of a load, including the weight of the asset itself. The asset needs to sustain without drastically breaking and/or deforming, whilst still being able to perform its intended use.

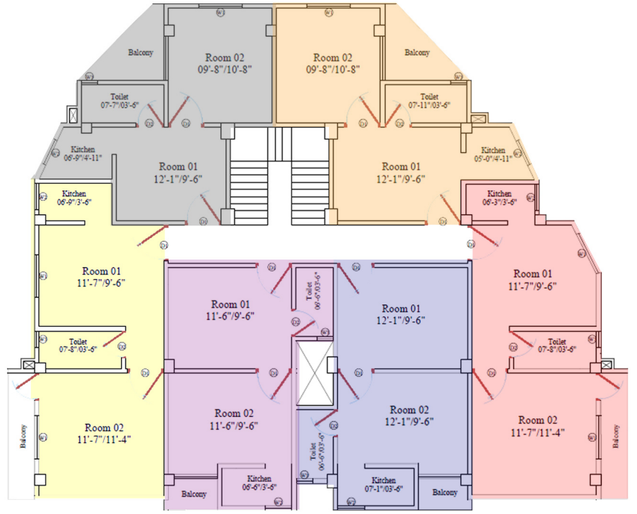
Structural failure is the result of a loss of structural integrity. It is caused when a component, structure or asset is put under too much pressure, thereby reaching its strength limit, and causing it to deform or break. Therefore, a significant factor during the design process is to ensure that, if it collapses or fails, the failure can be contained to make sure the structure does not immediately collapse or completely collapse in the future.



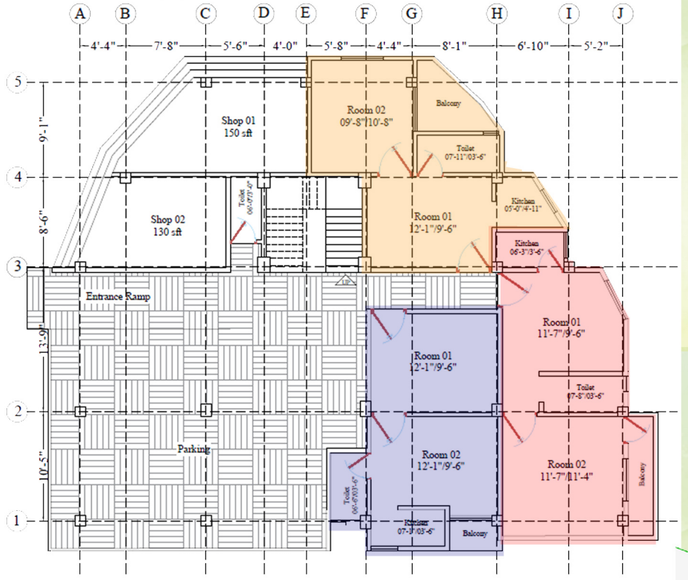


Structural failure can be caused by many factors, so structural integrity management is central to understanding how to mitigate and prevent catastrophic failure from occurring.

Human errors within planning can be a cause for structural failure, particularly in relation to miscalculation of data. Structural engineers must take into consideration the factors of fatigue and the structure/component's ability to withstand the continuous loading and unloading of pressure and/or weight. Fatigue itself is a result of environmental factors including corrosion, which usually occurs where cracks appear at a stress point when the structure/ component reaches its maximum stress capacity. Fracture Mechanics looks at the presence of cracks in structure/component and has become the basis of structural integrity assessment

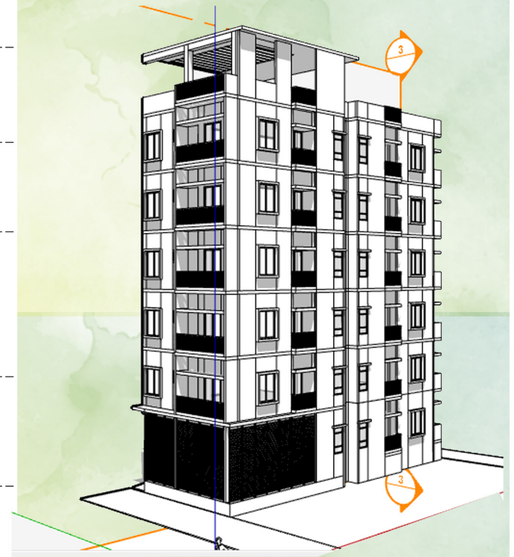


TYPICAL FLOOR PLAN



GROUND FLOOR PLAN

SECTION



PROJECT NAME: 4 STORIED RESIDENTIAL BUILDING

CLIENT NAME:MD.SHAH AKHTERUZZAMAN

Tangible assets in residential and apartment buildings include the lives of residents, visitors, contractors, vendors,and the apartment building staff; personal property contained within the apartments; and the building itself, its fittings, and its equipment. Building equipment includes of the electrical, water, gas, mechanical, heating, ventilating, air-conditioning, lighting, elevator, escalator, communication, security, and fire life safety systems.

PROJECT NAME: 3 STORIED RESIDENTIAL BUILDING

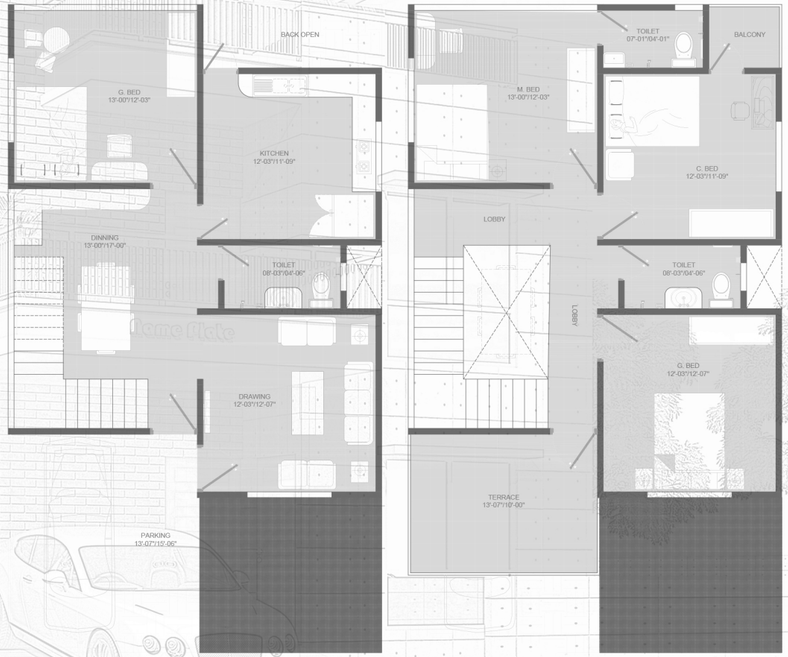
CLIENT NAME:MD.BELAL

A small-to-medium (3 to 3.5-story) sized detached structure that consists of 3 dwelling units typically stacked on top of each other on consecutive floors, with one entry for the ground floor unit and a shared entry for the units above. This type does not include a rear yard.

Ideal Specifications

Width 45 feet
Depth 115 feet
Area 5,175 sq. ft.
0.119 acres
Units
Number of Units3 units
Typical Unit Size 1,008 sq. ft
Density
Net Density 25 du/acre
Gross Density 20 du/acre
Parking
Parking Ratio 1.33 per unit
On-street Spaces 1
Off-street Spaces 3
Setbacks
Front15 feet
Side 5 feet
Building
Width 24 feet
Depth 42 feet
Height (to eave) 30 feet
Floors 3 stories

FRONT LOADED TRIPLEX



GROUND FLOOR PLAN

1ST FLOOR PLAN

SOME OF OUR
OVERSEAS PROJECT.....

THE MOOD.
THE VIBES.
THE LIFESTYLE.

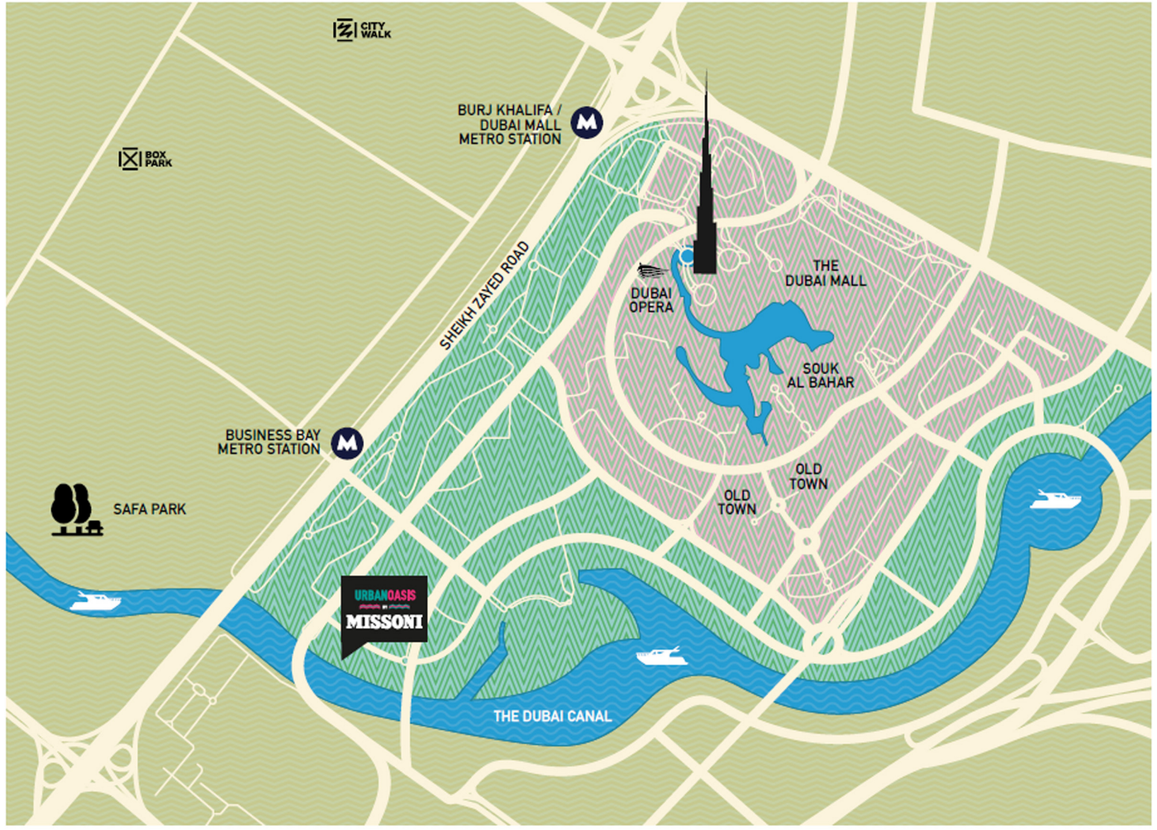
The Best of Miami is now at the heart of Dubai.

Immerse yourself in the best of Miami, with bespoke spaces designed by Missoni Home to ensure you live in your very own Urban Oasis.

WELCOME TO THE URBAN OASIS

A distinct residential tower by the Dubai Canal with interiors by Missoni encompassing the best of Miami.

THE LOCATION



An oasis in the heart of the city

Urban Oasis is situated at the heart of Dubai, directly on Dubai Canal, and a stone throw away from Dubai's most premium lifestyle locations.
Like it's sister tower in Miami, Urban Oasis is thoughtfully crafted to ensure all its residents, have luxury homes with sweeping views of the city and the canal.

FROM URBAN OASIS

TO	BY CAR
Dubai Canal	0 min
Downtown Dubai	5 min
The Dubai Mall	5 min
Jumeirah Beach	7 min
Dubai Marina	17 min
Dubai Int'l Airport	17 min
Expo 2020	30 min

THE PENTHOUSES

Cover your elegant living spaces in thrills and enjoyment. The Urban Oasis' rich textures and prominent patterns is the ideal setup to welcome you and your loved ones to moments worth celebrating.

Make every gathering a celebration

LEVEL 2

3 BEDROOM

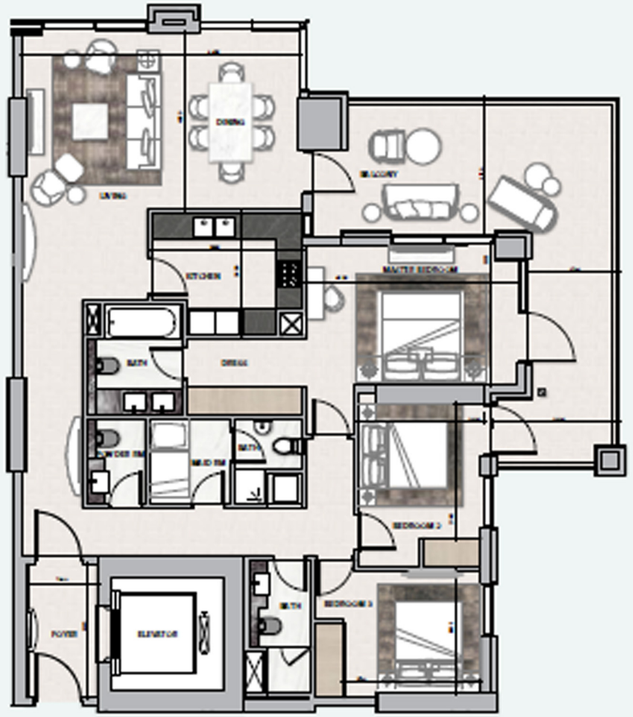
TOTAL AREA

178 sq.m / 1916 sq.ft

UNIT Nº

3 & 4

URBAN OASIS BY MISSONI



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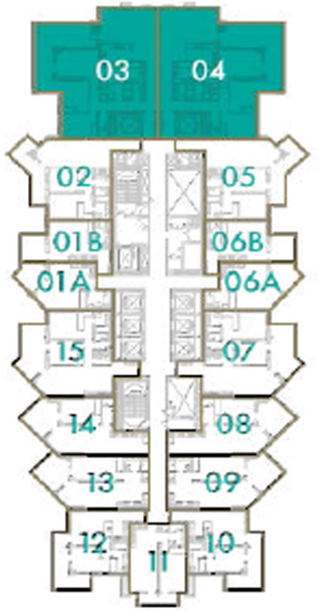
DUBAI CANAL



LEVELS 3 - 14

3 BEDROOM

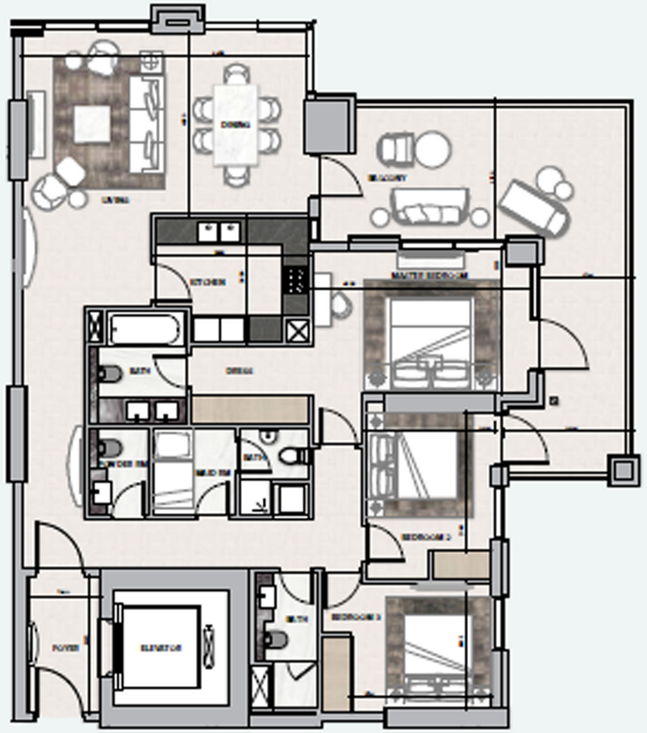
TOTAL AREA

178 sq.m / 1916 sq.ft

UNIT Nº

3 & 4

URBAN OASIS BY MISSONI



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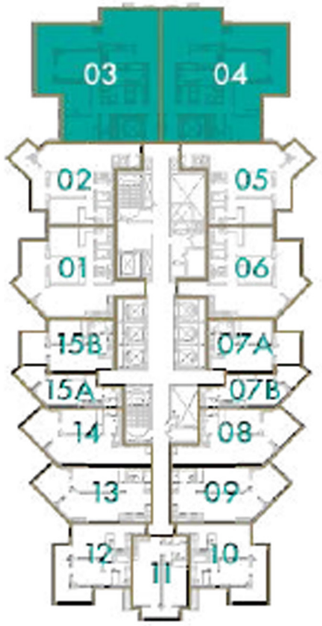

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LEVEL 15

3 BEDROOM

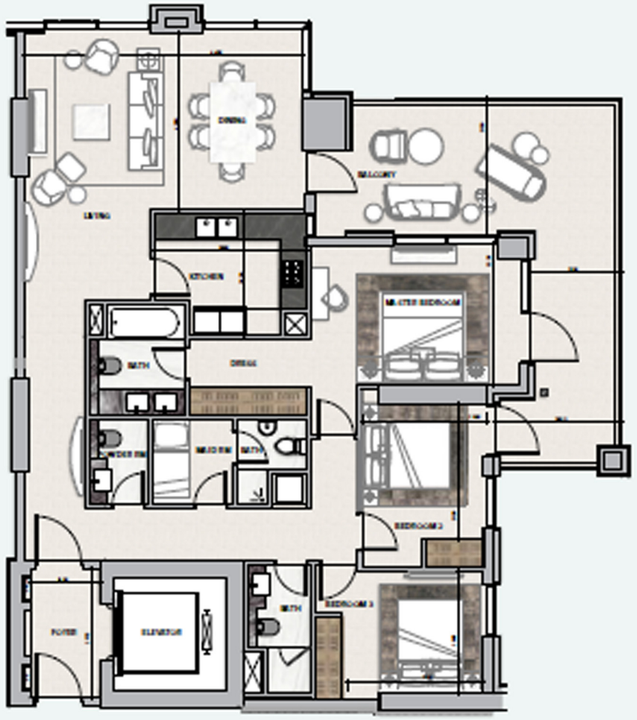
TOTAL AREA

178 sq.m / 1916 sq.ft

UNIT Nº

1 & 2

URBAN OASIS BY MISSONI



DUBAI CANAL

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LEVELS 31 - 34

2 BEDROOM

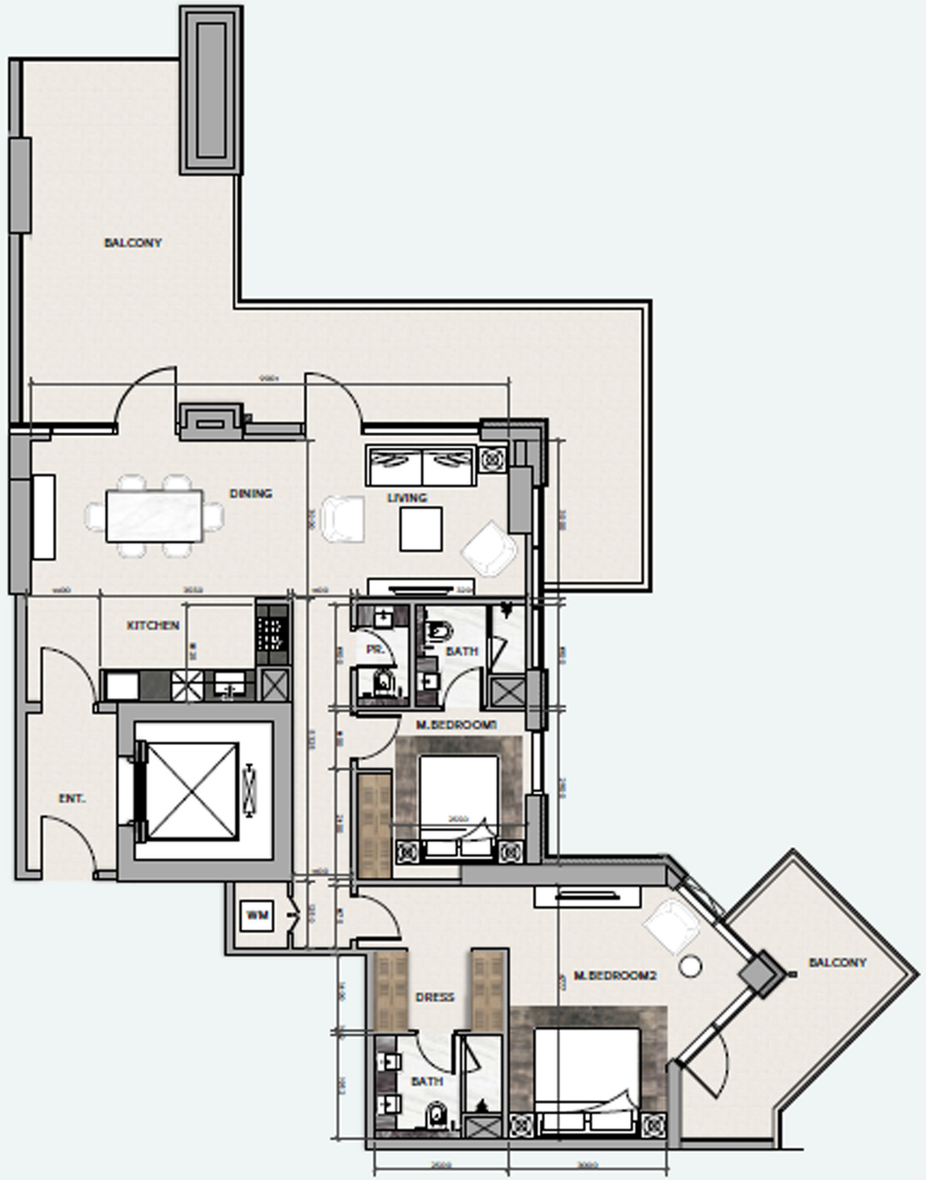
TOTAL AREA

172.2 sq.m / 1853.5 sq.ft

UNIT Nº

2B & 3B

URBAN OASIS BY MISSONI



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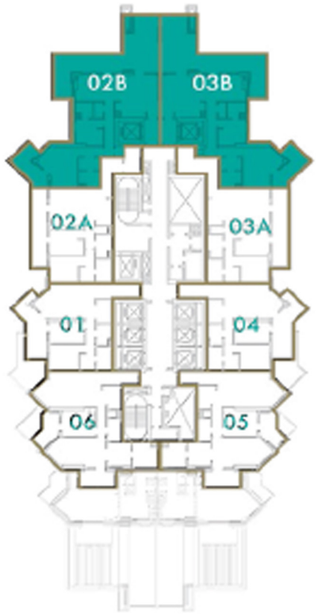

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DAR AL ARKAN

A Saudi public shareholding company headquartered in the Saudi capital, Riyadh, with a proven track record of accomplishments, providing many distinguished real estate projects in the Kingdom of Saudi Arabia for the past 25 years.

Since its establishment in 1994, Dar Al Arkan has offered distinguished real estate opportunities for homeowners and investors to develop and preserve their wealth for future generations. Dar Al Arkan provides its residents and owners with a modern lifestyle befitting their aspirations through residential complexes, high-end real estate and shopping centres that serve as witness to their success and excellence. Thanks to their trust, Dar Al Arkan has succeeded in developing the real estate sector in the Kingdom.

Assets are a reported
28 BILLION
Saudi Riyals

Capital amount is
10.8 BILLION
Saudi Riyals

500,000
Square meters of commercial space

15,000
Residential units