

ARCHITECTURE PORTFOLIO

Selected Works
2017-2020

SUNNY CHHETRY





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STUDENT ARCHITECT

Hello,

I am Sunny Chhetry currently in 7th semester pursuing my Bachelor's Degree in Architecture at Lovely School of Architecture and Design, Punjab, India.

I believe that an example of good architecture is a space that provides a sense of belonging to the user while also caring about the nature and surroundings. Have a wide skill set across a number of personal-based abilities which I am constantly seeking to improve. My imaginations emotions and coney ideas inspires me to enhance my 3d visualization and buildings form, always in deep love with 3Ds, Renderings and animations. The Portfolio showcases selected design works (Academic + Competition) and details during my curriculum.

PERSONAL INFO:

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ACADEMIC BACKGROUND:

- Bachelors in Architecture : Lovely School of Architecture and Design, Punjab 2017 - 2022
Currently in 4th year
- Higher Secondary (CBSE) : Sudhir Memorial Institute, Kolkata 2015 - 2017
- Primary School (ICSE) : The Aryans School, Kolkata 2009 - 2015

ACHIEVEMENTS:

- National Level Envelope Design Competition : CODE, Jaipur [1st place] - 2020
- A3F Poetry Competition : A3 Foundation, Chandigarh [1st place] - 2019-20
- Tug of War : Division of sports (LPU), Jalandhar [1st place] - 2020
- WAD Competition (video vlogging) : LSAD, Jalandhar [1st place] - 2019
- LPU T20 League (cricket) : DSA, Jalandhar [1st place] - 2018
- SPECTRA (Fine Arts category) : LPU, Jalandhar [2nd place] - 2019
- WAD Competition (software modelling) : LSAD, Jalandhar [3rd place] - 2019
- Mural Design Competition : A3 Foundation, Jalandhar [3rd place] - 2019
- Winner of **Ram Avatar Pratibha Purashakar** : Sanmarg Foundation, Kolkata
- Played **CAB U-14** and **District Level Cricket** : Kolkata, West Bengal.

POSITION OF RESPONSIBILITY

- **STUDENT HEAD** : Acted as Student Head of Division of Sports, LSAD
- **CO-ORDINATOR** : Acted as Co-ordinator for NICHE-IPM, LPU 2018
Acted as Co-ordinator for A3 Foundation, Chandigarh
Acted as Co-ordinator for Best Thesis Award, COA, LPU
- **TEAM CAPTAIN** : Acted as Captain for LSAD cricket team, LPU
Acted as Captain for CAB U-14 team, Kolkata

HOBBIES and INTERESTS



POETRY



COOKING



CRICKET



TRAVELLING



QUIZ



BIKE RIDE



MOVIES

EXPERIENCES:

- Summer Internship : Public Works Department, Guwahati Architecture and Planning department June - July 2019.
- Activities Organisation : Swachh Bharat Abhiyan and Anti-Drug Campaign in village, Chaheru February 2019.
June - July 2019.

PARTICIPATION:

- **Taj Amity Pavilion Design Competition** : ARCHDAIS, Mumbai 2018
- **Marsotopia Design Competition** : D5W, Jalandhar 2017
- **Best out of Waste Competition** : YouthVibe, Jalandhar 2018
- **LOGO Design Competition** : Ministry of Textiles, India 2020
- **Inter College Athletic Meet** : DSA, Jalandhar 2018 & 19
- **Inter College Cricket Tournament** : DSA, Jalandhar 2018 & 19
- **Tiny House Design Competition** : Volume Zero 2020

CONFERENCES/WORKSHOPS

- Attended workshop on '**Laurie Baker**' focused brick masonry by Ar. Yatharth, LPU 2018
- Attended '**ISPOD**' workshop which focused on various product designing methods, LSAD 2019
- Attended '**Archie Talks**' organised by A3 Foundation by Ar. Sangeet Sharma, LPU 2019
- Attended '**NICHE-IPM**' focused on Architecture and Interior Design by several architects, LPU 2018

LANGUAGES:

ENGLISH HINDI BENGALI NEPALI PUNJABI

SKILLS SET:

TECHNICAL:

MS OFFICE	●
AUTOCAD	●
SKETCHUP	●
REVIT	●
ADOBE PHOTOSHOP	●
COREL DRAW	●
ILLUSTRATOR	●
LUMION	●
ENSCAPE	●
VRAY	●
UNREAL ENGINE	●

OTHERS:

PHYSICAL MODELLING	●
LOGO DESIGN	●
SKETCHING	●

PERSONAL:

COMMUNICATION	●
TEAM WORK	●
MANAGEMENT	●
LEADERSHIP	●

REFERENCES:

Ar. DAISY BHUYAN Senior Chief Architect
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Prof. Ar. NAGENDRA NARAYAN Head of Department
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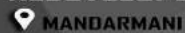
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TINY HOUSE



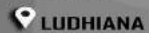
URBAN
REDEVELOPEMENT



RESORT BANGLA



OLD AGE
HOME



MEMORIAL



INTERIOR/EXTERIOR
DESIGNS

WORKING
DRAWING

MODELLING



MOUNT-INN

FEEL THE GREATNESS OF THE MOUNTAINS

📍 MOUNT EVEREST, NEPAL

TYPE : TINY HOUSE

SITE AREA : 27.8 SQM (300 SQ FT)

01

TINY HOUSE MOUNT EVEREST, NEPAL

BUILD-UP AREA : 300 SQ FT
SITE INFORMATION :

The tiny house design competition gave the freedom to choose the site but it should have the proper context with it. Our concern was to design not only a tiny house but to design it in such a way that it throws light to a specific group of people as well. The site chosen was the trekking track of the mount everest near the base camp and so on, where thousands of climbers trek by and few of them actually make it to the top.

DESIGN APPROACH

The tiny house designed is not only a house but it is designed in a way that it will be used as a small inn cum resting centre for all the climbers out there. The module is designed in such a way that it can be installed to the different locations of the hill and to the different camp zone as well as it is easily detachable from any of the locations. Sense of thrill remains the major inspiration and that is why the tiny house is hanging of the edge of the cliff but with full proof stabled structure in order to restrain the avalanche as well as the harsh wind movement.



CONCEPTUAL APPROACH

We propose a Tiny shelter cum resting centre which, while using the latest construction technologies to provide absolute physical safety, invokes the sensations of suspense and danger so essential in the himalayan experience. We believe that a shelter with the medical facility for the climbers as well as a resting shelter will be the perfect tiny shelter for them. Thus, we propose to take the advantage of the site's verticality and not restricting the common trekking path for the climbers, with modern technique of tension cable construction to create an architecture with immense presence built on a platform where one side is fixed to the mountain and the shelter is suspended by cables.



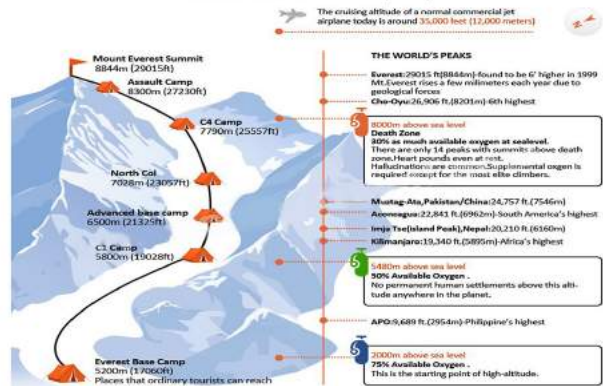
EXTREME WEATHER CONDITION

LACK OF OXYGEN

LACK OF MEDICAL FACILITY

LACK OF PROPER REST

Mount Everest Base Camp Map



1. ORIGINAL TREKKING ROUTE



2. CREATING TYPICAL BLOCK



3. GOING FOR VERTICALITY



4. STRENGTHENING STRUCTURE



5. EXTENDING THE FRONT FACE



SHELTER STRUCTURE

The structure was completely suspended and was stabilized by the tension cable which were directly transferring the load of structure to the mountain itself and also to protect the structure from the harsh wind movement, four heavy bio pillars were attached with the base of the shelter which was directly inserted inside the face of the mountain.

The exploded view of the structure clearly shows different elements used in the shelter starting from the base supporting structure made up of completely light weight concrete followed by the stepped floor of the shelter which also rationalizing the different zones of the shelter through the level differences. Then comes the walls made of double layer strong wooden blocks with a gap in between in order to maintain the shelter's inner temperature comfortable.

Then inside we have different sections starting from the waiting cum reception area - baggage section to keep their trekking bags - beside that we have a hot shower cum changing room - followed by the cube beds for the climbers to take a sweet sleep and give rest to their bodies - then comes the kitchen cum dining area - along with that we have a lovely sitting cum hangout space to enjoy the beauty of Everest - followed by the lovely hot water channel to keep your feet warm and relax - last but not the least we have a gravity section completely made of glass where you will feel the greatness of the Everest and it takes real guts to stand and reach that point of the shelter.

The shelter itself is a journey of thrill, enjoyment, recovery and to observe the beauty of the nature.

TINY IS A NEW BIG

The foremost important thing that we discovered before going for the final design of the structure is that the tiny shelters are not the tiny but its actually a smart shelter where the designer or owner finds out the ways where he can actually create space and its not only about creating space but also its about defining spaces in a tiny shelter. The proposed design was actually a bare example of the statement written above.

DIFFERENT AREAS

RECEPTION CUM WAITING AREA

BAG STORAGE AREA

HOT SHOWER AREA

CUBE BEDS ZONE - FOR 4 PEOPLE

SIDE SITTING CUM SLEEPING SPACE

OPEN KITCHEN CUM DINING SPACE

HANGOUT ZONE - LEVELLED SITTING AREA

HOT WATER CHANNEL - RELAX YOUR FEET

GRAVITY ZONE - MADE OF GLASS COMPLETELY

STORAGE SPACES

SUSTAINABLE APPROACH

SOLAR PANELS - making it an energy efficient shelter by converting the sunlight into electricity.

BIO-DIGESTIVE TOILET - the bio toilet will not only help in digest the waste product but also it will convert those waste into water, that will be again used for flushing and the bio gas generated from the waste actually gets converted to methane gas, that will be used for burning the gas.

GLASS PANELS - the use of glass panels is done in such a way that the natural sunlight decreases the urgency of using artificial lights inside the shelter.

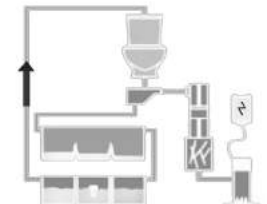
EXPLODED VIEW



EXPLODED VIEW



MODEL OF STRUCTURE



BIO - DIGESTER TOILET

FEEL THE THRILL



RELAX AND OBSERVE THE BEAUTY



ENJOY THE TASTY FOOD



HAVE A NICE SLEEP



GET SOME HOT SHOWER



RECOVER FROM THE WOUND



SECTIONAL VIEW



HANGOUT ZONE



SLEEPING ZONE



KITCHEN ZONE



SIDE SITTING ZONE



SHOWER ZONE



RECEPTION ZONE



ROOF STORAGE SPACE

WATER STORAGE SPACE

EXTRA STORAGE SPACE



3D VIEW OF TINY HOUSE



RECEPTION CUM WAITING



ENTRANCE VIEW



VIEW FROM THE TREKKING PATH BELOW



POONAR-VIKAAS

INFUSING LIFE IN THE URBAN AREA

📍 METIABRUZ, KOLKATA

TYPE : URBAN REDEVELOPEMENT

SITE AREA : 283280 SQM (70 ACRE)

SITE AREA : 294898 sqm (70.4 ac)
SITE INFORMATION :

Metiabruz lies on 16m above sea level and experiences sub-tropical climate with both hot and humid conditions. There is sunny and pleasantly warm winter and very hot and humid summer, characterised by the heavy rainfall during monsoon.

Metiabruz is also one of the commercial hub of Kolkata and that is why it has a turnover of more than 3000 crore, along with that it also has several dockyards and bunch of heavy vehicle transport hub. The existing site have a very congested locality with buildings build in appropriate manner. Overhead transformers, clogged sewers, tangled electric wires and heavy traffic congestion were the vital cons of the site to tackle. Being near to the dockyard is again a big con as there will be noise pollution and land pollution from it.

CONCEPTUAL APPROACH

The designing approach started by keeping in consideration about the existing scenario of the site, existing clusters and the roads.

Then comes the contours levels present in the site, though there was not much of difference in contours levels but there were certain zones that was acting as a valley or water accumulating zones. The contour map also helped in designing the water and sewer supply layout.

Then we considered the existing green area which were in ok condition and tried to conserve them as much as possible such that the place does not loose its past green values, and tried to connect these existing green areas by creating new green spaces and giving shape to the existing ones.

Then the road heirarchy was planned out in a way that we keep the vehicular movement inside the site as low as possible and attain a less carbon emitting master plan designed by reducing the percentage of metal roads.

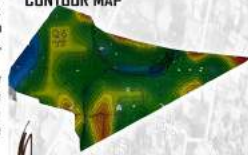
Then the zones were planned in order to provide privacy to residents as well as selecting the easily approachable areas for commercial zones, special importance was given for reducing the traffic and noise pollution in the site.

Then each zones were designed according to the surroundings and orientation of the sun as well as the wind direction of the site with providing a proper green space for each and every cluster. Making the central commercial zone as the sustainable heart of the master plan, which not only helping in generating the economy but also improving the air quality of the site.

EXISTING CLUSTERS



CONTOUR MAP



EXISTING GREEN AREAS



CLUSTER DESIGN LAYOUT



ZONING LAYOUT



ROAD NETWORK



DESIGN EVOLUTION

3D VIEW OF FOOT BRIDGE AND RESTAURANT



EXISTING SITE



DESIGN APPROACH

The whole site is planned in a grid pattern in order to maintain the circulation and services supply. Site is being divided into several zones by keeping in mind the existence and future approach.

Commercial zones are provided near the main roads and privacy is given to the residential zones with an open green park in order to have a peaceful environment for them. The HIG zones are being kept near the heart of the site i.e. the commercial zone at the centre. The transportation hub and industrial zones are kept at the backside so that they don't create traffic congestion in the site.

The two main road running throughout the site is connecting the two access main road, the zones are designed in such a way that the greenery and water body can be used as a recreational space. Every residential blocks are design in a cluster pattern and every cluster have their individual recreational and commercial space.

SITE AREA : 284898 sqm (70.4 ac)
 GROUND COVERAGE : 69468 sqm (17.16 ac)
 TOTAL BUILD UP : 372524.5 sqm (92.1 ac)
 FAR USED : 65.5%
 PERMISSIBLE FAR : 1.25
 PERCENTAGE OF METAL ROAD : 6.91%
 PERCENTAGE OF GREEN SPACE : 35%

PROPOSED MASTER PLAN

Special emphasis has been laid in the entrance of the site as the V-junction of the site was tackling with a heavy traffic congestion. Thus, a beautiful eye catching recreational zone has been designed in the junction in order to give a welcoming vibe into the site. Existing roads were too narrow and tilted so in order to deal with that roads were made wider and segregation of vehicular and pedestrian and cycling path has been proposed.

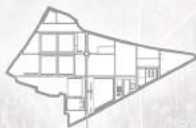
- COMMERCIAL SHOPS
- PARKING AREA
- HOSPITAL
- COMMUNITY CENTRE
- WATER BODY
- SCHOOL
- MOSQUE
- EWS
- LIG
- HIG
- MIG
- INDUSTRIAL AREA
- TRANSPORTATION HUB
- CENTRAL GREEN AREA
- GREEN PARK FOR RECREATION
- OHT
- SEWAGE TREATMENT PLANT
- POLICE STATION
- PARK



LAND USE PERCENTAGE		
ZONES	AREA	%
RESIDENTIAL	34.83 AC	49.3
COMMERCIAL	7.48 AC	10.6
MIXED USE	5.6 AC	7.97
INSTITUTIONAL	4.5 AC	6.4
INDUSTRIAL	5.59 AC	7.9
TRANSPORT	0.8 AC	1.13
GREEN AREA	9.17 AC	13.06
ROAD AREA	8.57 AC	12.2



ZONING PLAN



ROAD MAP



PEDESTRIAN MAP



GREEN AREA MAP

3D VIEW OF PROPOSED MASTER PLAN



9m wide pathways

12m wide pathways

Restaurant

Commercial zone

HIG block

Recreational zone

EWS blocks

15M WIDE ROAD

12M WIDE ROAD

9M WIDE ROAD

RAIN WATER COLLECTION

DISTRIBUTION OF POWERLINE

SECTION OF 9M WIDE ROAD

AERIAL VIEW OF CENTRAL NODE

KEY PLAN



The EWS housing clusters are located near the industries and well linked with the main and sub-main roads with proper buffer zone created by the green belts between industries and the residential blocks.

FAMILY STRUCTURE



No. of family members : 6
 Head of the family : Mr. Sachin basu
 Income per month : INR 15000
 Occupation : Industrial Worker
 Total family income : INR 25000
 Saving : INR 5000
 Requirement : Kitchen, Living, Bedroom, Toilet and Bathroom

BUILDING FORM



The building form is such that, to have a proper wind circulation.

CONCEPTUAL APPROACH

The building blocks were specially designed by keeping in mind regarding sound and disturbances coming from the industries and the majority of the population working in the industrial sector, so it is designed in a way that it reduces the distance between residential of workers and the working place.

The blocks were properly oriented according to the sun and wind movement as well as the courtyard providing a good space for air circulation and good open space for the residents.



CLUSTER PLAN



MODULE PLAN

AREA STATEMENT

AREA OF ONE UNIT: 30 SQ
 AREA OF DIFFERENT ZONE
 KITCHEN: 4.3 SQ M
 BATHROOM: 2.5 SQ M
 TOILET: 2 SQ M
 LIVING ROOM: 8 SQ M
 BEDROOM: 10 SQ M
 BALCONY: 3.3 SQ M



UNIT PLAN

AREA STATEMENT

NO. OF UNIT IN EACH FLOOR: 5
 TOTAL NO. OF UNITS IN ONE BLOCK: 15
 NO. OF UNITS IN A CLUSTER: 200
 AREA OF OPEN GREEN SPACE IN EACH MODULE: 720 SQ
 TOTAL GREEN SPACE IN A CLUSTER: 3180 SQ M
 TOTAL NO. OF UNITS : 720
 GC OF ONE MODULE : 172 SQM
 TOTAL BUILD-UP OF ONE BLOCK: 688 SQM



NORTH ELEVATION

WESTSIDE SECTION

3D VIEW OF EWS CLUSTER



TOP VQEW OF CLUSTER



DAYTIME VIEW



NIGHT-TIME VIEW



VIEW OF ROAD

KEY PLAN (MIG UNITS)



The MIG housing clusters are well linked with the main and sub - main roads with proper buffer zone created by the green belts between EWS and MIG residential blocks.

FAMILY STRUCTURE



No. of family members : 4
Head of the family : Mr. Subho Dey
Income per month : INR 35000
Occupation : Employee
Total family income : 65000
Saving : INR 20000
Requirement : Kitchen, Living,
Two Bedroom, Toilet and Bathroom

GC OF ONE BLOCK: 216 SQM
TOTAL BUILD-UP AREA OF ONE
BLOCK: 1728 SQM
TOTAL NO. OF BLOCKS: 62

CONCEPTUAL APPROACH

The building was designed with an open balcony concept, there should be place where the residents gets ample space to socially interact and have some green space in the intermediate floors.
The blocks were placed in such a way that it gets good amount of sunlight and green spaces in between the buildings such that it maintains its own privacy and creates there own neighbourhood levels.



CLUSTER PLAN



MODULE PLAN



NORTH ELEVATION

AREA STATEMENT

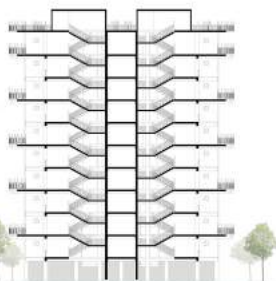
AREA OF ONE UNIT: 70
AREA OF DIFFERENT ZONES:
KITCHEN: 4.3 SQM
LIVING ROOM + DINING: 14 SQM
BEDROOM: 12SQM (X2)
WASHROOM: 3.2 SQM (X2)
BALCONIES: 10.7 SQM



UNIT PLAN

AREA STATEMENT

NO. OF UNITS IN EACH FLOOR: 4
TOTAL NO. OF UNITS IN 1 BLOCK: 40
TOTAL NO. OF BLOCKS: 17
TOTAL NO. OF UNITS: 680
NO. OF UNITS IN CLUSTER 1: 240
NO. OF UNITS IN CLUSTER 2: 200
NO. OF UNITS IN CLUSTER 3: 120
NO. OF UNITS IN CLUSTER 4: 120



EASTSIDE SECTION

3D VIEW OF LIG CLUSTER



LIG ENTRANCE VIEW



NIGHT-TIME VIEW



DAYTIME VIEW

KEY PLAN (COMMERCIAL)



The Commercial zone is well linked with the main and sub-main roads with proper buffer zone created by the green belts and ample space from the main road in order to deduct the noise coming from the main road.

FAMILY STRUCTURE



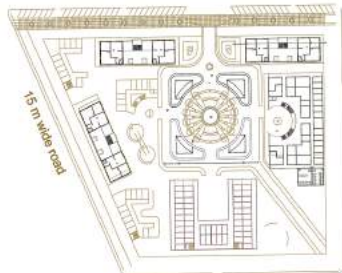
No. of family members : 4
 Head of the family : Mr. Subho Dey
 Income per month : INR 35000
 Occupation : Employee
 Total family income : 65000
 Saving : INR 20000
 Requirement : Kitchen, Living,
 Two Bedroom, Toilet and Bathroom

NO OF UNIT-400
 UNIT IN EACH FLOOR-10
 NO OF FLOORS-2
 AREA PER UNIT-20
 TOTAL BUILT UP AREA-9600SQM
 TOTAL GROUND COVERAGE-4800

CONCEPTUAL APPROACH

Its a commercial place design for the community to provide a proper community space or a public space which was completely absent in Metiabruz. Space where people can shop and be together keeping the entire place sustainable by providing lots of greenaries. Thus, its a design which provides a public space that is not only attractive but also act as an attraction hub for the entire Kolkata city. Hence we call it as the 'Heart' of our master plan.

NO OF UNIT-400
 UNIT IN EACH FLOOR-10
 NO OF FLOORS-2
 AREA PER UNIT-20
 TOTAL BUILT UP AREA-9600SQM
 TOTAL GROUND COVERAGE-4800



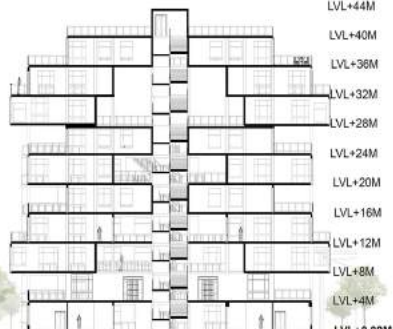
SITE PLAN
 AREA- 5.6ACRE,
 22660SQM



LVL+44M
 LVL+40M
 LVL+36M
 LVL+32M
 LVL+28M
 LVL+24M
 LVL+20M
 LVL+16M
 LVL+12M
 LVL+8M
 LVL+4M
 LVL+0.00M
 GL



NORTH ELEVATION



NORTHSIDE SECTION



3D VIEW OF COMMERCIAL ZONE



HEART OF CITY



DAYTIME VIEW



NIGHT-TIME VIEW



AMAR SONAR BANGLA

REVIVING THE CULTURE OF BENGAL

📍 MANDARMANI, WEST BENGAL

TYPE : FAMILY RESORT

SITE AREA : 34000 SQM (8.4 ACRE)

02

BEACH RESORT WEST BENGAL, INDIA

Site Area : 34000 sqm (8.4 ac)
Site Information

Mandarmani is a seaside resort village in the state of West Bengal, India and lies in East Midnapore district on the western side of the Bay of Bengal. It has one of the largest seaside resorts of West Bengal fast-developing.

The site is located in Mandarmani, west bengal, which was falling under CDZ II zone beside Mandarmani beach and is one of the longest drivable beach in India.
Permissible FAR : 33%
Max ground coverage : 25%
Max height : 5m
Buildable zone : beyond 200m of high tide line towards land

Though the site is well connected by the road, rail and air but there is lack of efficiency in the accessibility to the site



■ NEAREST BUS, RAILWAY STATION - 18 KM
■ NEAREST BUS STOP - 23.5 KM
■ NEAREST HIGHWAY - 33.6 KM
■ DISTRICT - 104 KM



NO BUILDING OVER LINE (NO CONSTRUCTION)



NO BUILDING OVER LINE (NO CONSTRUCTION)



PERMISSIBLE ALLOWED GROUND COVERAGE: 3.17 ACRE (1280 SQM)

PERMISSIBLE ALLOWED FAR: 33% OF PLOT AREA

SETBACK: 20 M FROM ADJACENT HIGHWAY



ACROSS EXISTING WATER BODY IN THE SITE TO GIVE A PROSPECTIVE OVERVIEW OF A WATERPLAZA

CONCEPTUAL APPROACH

The resort is completely based on the concept of 300 years old Kolkata / Bengal which had its own identity, own culture, own traditions and its own heritage.

Most of the people living near Digha and Mandarmani side areas do not really know about the traditions, the cultures, literature and the richness of Kolkata due to the influence of Odiya culture. Thus now it seems Mandarmani is highly influenced by the Odiya culture. Hence to revive the rich culture of our Bengal and its traditions, Amar Sonar Bangla Resort is completely driven by the bengali heritage.

The basic concept evolved from the rural bengali architecture style - Vernacular architecture and Chala roofs. In old times chala roofs were considered as the best option for houses to protect it from the rain and shading device as well.

Terracotta is used in the external facade which was inspired from the bengali temples. The literature guru Rabindranath Tagore and Nazrul Islam's writing inspired a lot to build an exhibition space to reflect their works for our society.

World famous Baul gaan and the classical dance is also a part of our culture. Inspired from the terracotta materials and cutleries, toys and statues, we created an space to sell the traditional products as well as the authentic bengali open market scene has been recreated in the site for visitors. Sea food is a must for the people coming to Mandarmani, so for this reason, we gave some sea food stalls and some authentic sea food restaurants near night-time sitting area in order to provide some relaxing and enjoyable areas



Inspired from chala roofs of Bengal



Bengali Terracotta temples taken as an inspirational example



Culture of Bengal and the traditional local terracotta



Placements of blocks according to the wind direction such that the wind flows throughout the inner parts of resort. Even the central designed water body helping in creating a soothing and relaxing environment for the visitors.

MASTER PLAN

The resort starts with a multipurpose building which is having admin areas, a nice semi open banquet hall and with that an open dining area and restaurants at the roof top. Then as we move on to the inner parts of resort, the site is being divided into two parts - left side has few exhibition halls and a small walkthrough museum showcasing the history and bengali culture. on the right side we have different types of rooms - villa, suite, couple suite and cottages for family and as we move on to the end portion of the resort. The end portion is completely dominated by water park, giving a thrill and time to have a nice relaxing and full of fun moments to spend with some nice water shows and night time sitting areas. overall this resort is a mixture of tradition, culture and enjoyment with a touch of thrill.

SL NO.	DESCRIPTION	AREA
1.	TOTAL SITE AREA:	8.4 ACRE (34000 SQM)
2.	GROUND COVERAGE:	25%
3.	PERMISSIBLE G.C:	8500 SQM
4.	FAR:	33%
5.	PERMISSIBLE BUILD UP:	11200 SQM
6.	ACHIEVED G.C:	6480 SQM
7.	ACHIEVED BUILD UP:	9650 SQM
8.	PARKING SPACE:	588 SQM
9.	METAL ROAD:	1090 SQM
10.	GREEN SPACE:	18420 SQM (54%)
11.	WATER BODY:	7480 SQM (22%)



SITE PLAN

KEY PLAN



DELUXE ROOM

The location of Deluxe room is such that its privacy and the ambiance of the nature, both of them are maintained and enhanced. Well linked with 3 m wide pedestrian, the Deluxe room has its own private pool for individual rooms at the backside of the building.

DESIGN APPROACH

The deluxe rooms were designed after taking a deep inspiration from arched colonnade traditional architecture style and keeping the walls simple but authentic plaster finish to give a resemblance of old bengali houses. The frontside have a little curated porch area whereas at the backside you have your own private pool with a peaceful sitting space for the family.

GROUND COVERAGE: 56.5

DELUXE ROOM



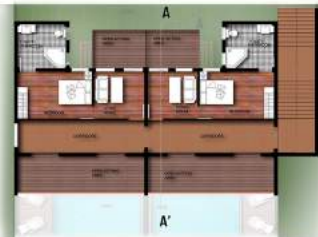
GROUND FLOOR PLAN (1:200)



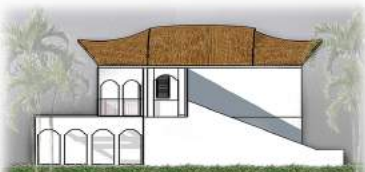
SOUTH ELEVATION (1:200)



SOUTH ELEVATION (1:200)



FIRST FLOOR PLAN (1:200)



NORTH ELEVATION (1:200)



3D VIEW

AREA STATEMENT:

BEDROOM: 13.5 SQM
LIVING : 10 SQM
BATHROOM: 5. SQM
SITTING AREA: 12 SQM



KEY PLAN



SUITE ROOMS

The location of Suite room is such that its privacy and the ambiance of the nature, both of them are maintained and enhanced. Well linked with 3 m wide pedestrian, the Deluxe room has its own private pool for individual rooms at the backside of the building. A traditional bengali house look has been imposed with some aesthetical values and use of barrel roofs can be seen which is made of terracotta.

DESIGN APPROACH

The Suite rooms were designed after inspired from the traditional bengali architecture and the walls were given simple but authentic plaster finishes to give a resemblance of old bengali houses. Angled louvres windows and vents were added too by keeping cross ventilation in consideration to overcome the humidity of the region.

GROUND COVERAGE: 67.5 SQM

SUITE ROOM



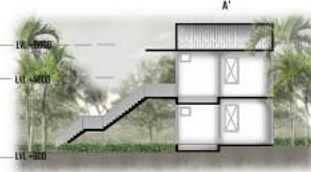
GROUND FLOOR PLAN (1:50)



WEST ELEVATION (1:50)



FIRST FLOOR PLAN (1:50)



SECTION AA' (1:50)



3D VIEW

AREA STATEMENT:

BEDROOM: 12.5 SQM
LIVING : 14.5 SQM
BATHROOM: 6. SQM
SITTING AREA: 8.8 SQM
GROUND COVERAGE: 43.5 SQM



KEY PLAN



ADMIN BLOCK

The location of Admin block is such that it creates an entrance to the beach resort and provides ample privacy to the cottages. To ease the services and to reduce the vehicular movement around the resort, the admin block has been kept in front near the entrance of the resort itself. A separate gate has been provided for the banquet hall area and to be used as secondary exit gate to reduce the congestion of resort. The admin block contains- Open sitting space, Common dining, Open dining area, Rooftop restaurants, banquet hall, managers cabin and the main kitchen.

DESIGN APPROACH

The design of the admin block is totally a pure example of terracotta with some classical bengali architecture elements in it. The barrel roof design, terracotta statues, arched open to sky corridor, open styled staircase and a perfect roof top sitting zones - giving a notion of being connected to the nature and feeling the architecture at its full swing.

ADMIN BLOCK

- | SL.NO. | DESCRIPTION |
|--------|----------------|
| 1. | MANAGER CABIN |
| 2. | RECEPTION |
| 3. | WAITING ROOM |
| 4. | MANAGER ROOM |
| 5. | BED ROOM |
| 6. | LANDING AREA |
| 7. | ALL DAY DINING |
| 8. | LINE KITCHEN |
| 9. | MANAGERY AREA |
| 10. | PRE FUNCTION |
| 11. | COMMON TOILET |
| 12. | CHEF OFFICE |



GROUND FLOOR PLAN (1:200)



SOUTH ELEVATION (1:200)



SOUTH ELEVATION (1:200)

- | SL.NO. | DESCRIPTION |
|--------|----------------------|
| 1. | RESTRY RECEPTION |
| 2. | WAITING AREA |
| 3. | OPEN SEATING |
| 4. | BAR |
| 5. | FLOOR IN CHANGE ROOM |
| 6. | SEATING AREA |
| 7. | KITCHEN AREA |
| 8. | COMMON TOILET |



FIRST FLOOR PLAN (1:200)



NORTH ELEVATION (1:200)



3D VIEW

KEY PLAN



COUPLE COTTAGE

The location of Couple cottage is chosen beside the constructed water body which is created in the site for the purpose of having a good environmental surroundings as well as giving a common space for people to relax and enjoy the beauty of nature. It is also giving the privacy that is mandatory for the couple cottages with a beautiful ambience as well as creating its own ecosystem.

DESIGN APPROACH

The couple cottages were designed after inspired from the chala style roofs of traditional bengali architecture and the walls were given simple but authentic plaster finishes to give a resemblance of old bengali houses. Angled louvres windows and vents were added too by keeping cross ventilation in consideration to overcome the humidity of the region

GROUND COVERAGE: 43.5 SQM

COUPLE COTTAGE



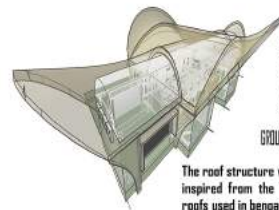
FLOOR PLAN (1:50)



SOUTH ELEVATION (1:50)



SECTION AA' (1:50)



The roof structure was completely inspired from the 'chala' style roofs used in bengal.

AREA STATEMENT:
 BEDROOM: 12.5 SQM
 LIVING: 14.5 SQM
 BATHROOM: 6. SQM
 SITTING AREA: 6.8 SQM
 GROUND COVERAGE: 43.5 SQM

ROOF DESIGN



NORTH ELEVATION (1:50)



3D VIEW



AASHRAY

HOPE OF LIFE TO LIVE LONG

📍 LUDHIANA, PUNJAB

TYPE : OLD-AGE HOME

SITE AREA : 14 ACRE

05

OLD-AGE HOME
LUDHIANA, INDIA

Site area : 56655 sqm (14 ac)

Site information :

The site is in Ludhiana, Punjab near Doraha. The site surrounding was not so bad and neither was so good. It had front setback of 15m from the highway and 10m rear and side setbacks.

DESIGN APPROACH

The important thing to keep in mind about the site is that there are a group of banyan trees that are pitty old and we were required to conserve those trees present in site. One more thing was there that the site was located very close to the national highway so there were chances of noise pollution contaminating the site ambience, thus the parking lots are provided near the entrance in order to cut down the noise and to reduce the vehicular movement inside the site as low as possible. The site plan is created in such a way that there is not at all any kind of vehicular movement near the residents except the services.

CONCEPTUAL APPROACH

Interestingly the site already had a group of banyan trees there itself standing tall and great, was fuming such a great vibe of unity, endurance and will of living a long life. The banyan tree created so much positivity there and that too an oldage was suppose to be designed there that it became a strong example of the design - imparting great values of Life, sacred values and medicinal advantages as well. We all know since our childhood that the banyan tree is such a sacred tree as well as it has so many useful medicinal values and the most important it survives longer span, conveying the message that if i can withstand and live the life then why can't you.

Taking inspiration from the tree and the central point of tree as a vital spot which will be imparting peace and life, we have taken it as a centre for our site thus creating a beautiful open yoga centre in middle.

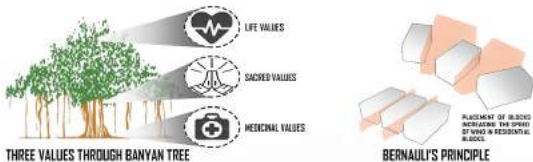
The site has been divided by the three axis:
1. Axis of life - which is leading to entertainment zone as we know our life is nothing less than an entertainment show, you just have to play your roles.

2. Sacred axis - which is leading to residential blocks as said god resides in houses.

3. Axis of health - leading to health centre, crucial part of design project.

*TOTAL AREA OF SITE:	56655 SQM
*GROUND COVERAGE:	7995 SQM
*FLOOR AREA RATIO:	21.3%

SETBACKS	
FRONT SIDE:	15 M
REAR SIDE:	10 M
SIDE:	10 M



THREE VALUES THROUGH BANYAN TREE

BERNAULI'S PRINCIPLE



SITE PLAN

INTERIOR VIEW OF YOGA CENTRE



"In a world full of hectic and maniac activities, I found peace under the shade of the banyan tree."

KEY PLAN



RESIDENTIAL BLOCK

The residential blocks are well planned keeping in mind the walking distance that a old person can cover, ramps are of 1:16 slope so that its easy for them to climb through the stairs as well as less pressure is given to their knee joints.

For fire safety issue, fire escape staircase has been provided at every 15 m interval so that during any kind of emergency it is easily accessible.

Importance is given to the outdoor activities and stress has been emphasised on how to make the outdoor more interactive and more creative - for this reason the summer and winter gardens have been created in a way that during summers we can enjoy the weather without getting sunburne and during winter we can enjoy the weather without getting effected by the cold winds. Outdoor sitting space, open air theatre and gaming rooms have been created to make them more an outdoor warm rather being an isolated one.

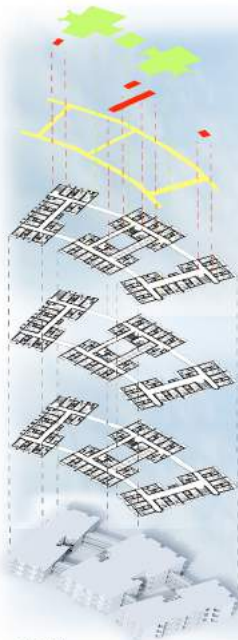
Yoga centre is always there for them - when they need for healthy lifestyle or when they require for being dedicated to the nature.

CONCEPTUAL APPROACH

The basic shape of the blocks came from the placement of the blocks - in order to increase the wind speed and make it more cooler throughout the site, the Bernauli's theorem has been applied by which the wind pressure is increased around the buildings, thus creating a nice summer garden in front of the resident blocks. Courtyard planning has been done in order to have a proper cross ventilation and to increase the natural light intake, these courtyards will be helping it out.

There are total three floors including ground floor - the ground floor contains the reception waiting lounge, managers room and reception with other facilities room and some residents, the top floors consist of residents with a nurse and 24 hour clock service room in every floor in order to keep an eye on every floors residents.

The corridors connect each and every blocks with each other and the ramp being constructed in the central block in order to provide more flexibility in vertical circulation aspect.



GREEN SPACE

VERTICAL CIRCULATION (RAMP & LIFTS)

CORRIDOR CIRCULATION

SECOND FLOOR PLAN

FIRST FLOOR PLAN

GROUND FLOOR PLAN

3D OF RESIDENTIAL BLOCK



VIEW OF RESIDENTS



SINGLE BEDROOM
BEDROOM
TOILET
BALCONY



SUITE ROOM
BEDROOM
TOILET
LIVING ROOM
SMALL KITCHEN



DOUBLE BEDROOM
BEDROOM
TOILET



SIDE ELEVATION



FRONT ELEVATION



VIEW OF YOGA CENTRE



VIEW THROUGH THE CORRIDOR OF DINING BLOCK



An architectural rendering of a temporary pavilion named 'Sehenshilta'. The pavilion is a long, low structure with a white, illuminated, geometric lattice roof. It is situated on a green lawn next to a large, ornate stone building with domes and arches, overlooking the ocean at sunset. The sky is filled with soft, colorful clouds in shades of pink, orange, and blue. The pavilion's roof is composed of a grid of white lines, with some sections highlighted in red and blue. The building it is adjacent to is a grand, classical-style structure with multiple domes and arched openings. The ocean is visible in the background, and the overall scene is bathed in the warm, golden light of the setting sun.

SEHENSHILTA

REMEMBERING THE MARTYRS' OF 26/11 ATTACK

📍 MUMBAI, MAHARASHTRA

TYPE : TEMPORARY PAVILION

SITE AREA : 1500 SQM (16145 SQ FT)

Site area : 6000 sqm

Site information :

The site is in Mumbai, Maharashtra near the Gateway of India. The site is located exactly behind the gateway and experiences lots of tourist in the region.

DESIGN APPROACH

The pavilion is paying homage to the soldiers who valiantly fought against the terrorists, and the people who lost their lives during the attack. The pavilion represents the reverence and honour that we feel the soldiers who fought for the nation against all social evils.

The main purpose of the pavilion is to be temporary in nature, constructed in a way that responds to its environment in an eco-friendly way.

The design of the pavilion is such that its monumental in nature, creating a unique architectural expression. The design respects the context and the existing landscape of the precinct, while being flexible and unique enough to respond to a wide variety of activities.

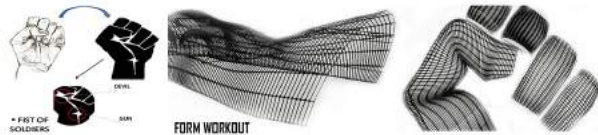
CONCEPTUAL APPROACH

The concept was inspired from the word - 'Sehenshila', means Tolerance. The clinched fist in the picture depicts that our nation resisted the attack that time but this fist also have the power to fight back with a punch - resistance, tolerance is our nations one of the big power but above that when the time demands, our brave soldiers knows how to melt the bones of coward enemies.

The abstract clearly shows how the devil is being crushed in the hand of our soldiers. We required to build a temporary pavilion such that it can be disamble and can be assembled without any nuisance - The pavilion is being designed in the shape of a hand and the galleries inside the pavilion are being given names of the martyrs officer who sacrificed their life for their nation.

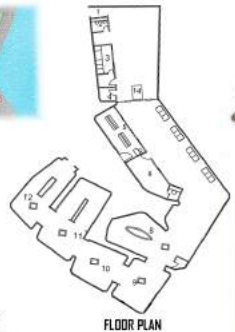
The pavilion is divided into total 6 galleries:

1. Karkare gallery.
2. Umble gallery.
3. Salasker gallery.
4. Unnikrishnan gallery.
5. Kamte gallery.
6. Martyrs gallery.

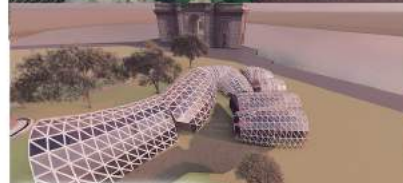


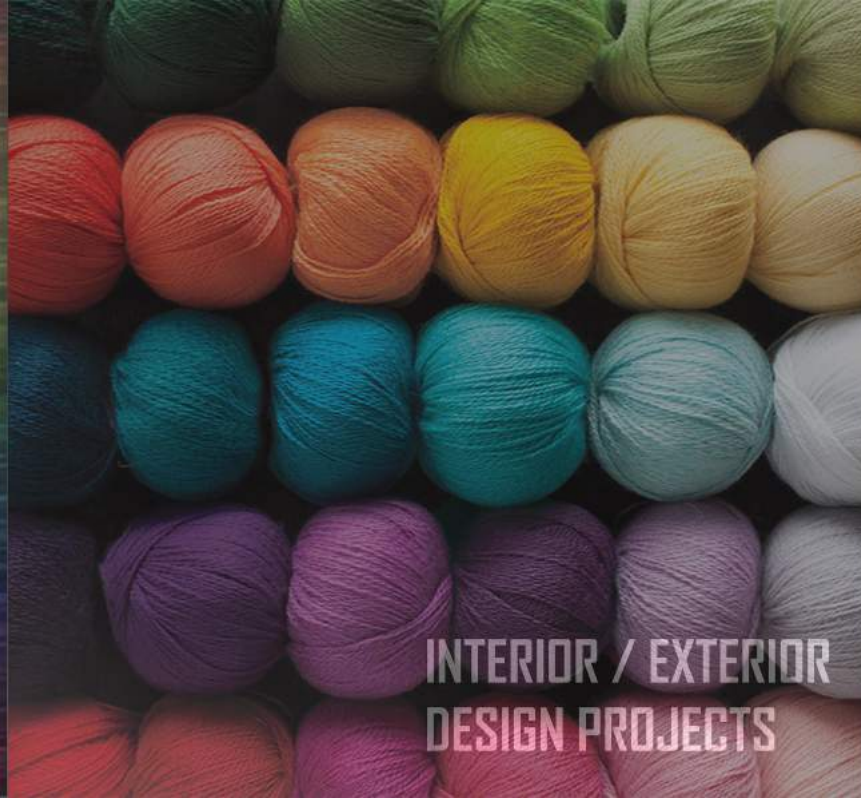
SITE PLAN

AREA REQUIREMENT	
1. ENTRANCE	2.50 SQM
2. TICKET COLLECTION	10.00 SQM
3. SECURITY CHECK	9.00 SQM
4. SECURITY OFFICE	1.00 SQM
5. SECURITY SHOP	10.00 SQM
6. SHOP OFFICE	10.00 SQM
7. INFORMATION CENTER	2.00 SQM
8. GALLERY 1	10.00 SQM
9. GALLERY 2	10.00 SQM
10. GALLERY 3	10.00 SQM
11. GALLERY 4	10.00 SQM
12. GALLERY 5	10.00 SQM
13. GALLERY 6	10.00 SQM



INTERIOR VIEW OF PAVILION





INTERIOR / EXTERIOR
DESIGN PROJECTS









"SIMPLE BUT ELEGANT"
THAT'S HOW A BEDROOM SHOULD BE



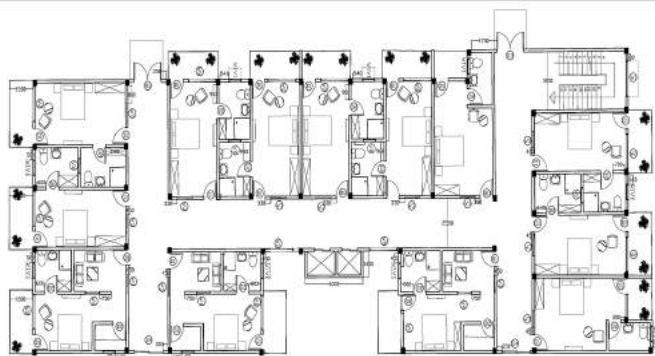
"A VENTILATED KITCHEN"
IS THE PRODUCER OF THE TASTY FOOD



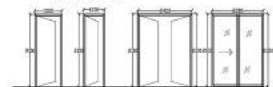
"A GOOD DAY IS DEFINED BY A GOOD SLEEP"
THAT'S WHY YOU NEED A GOOD AND A COMFORTABLE BEDROOM



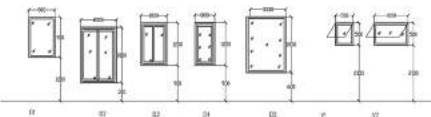
"SPATIAL AND BRIGHT LIVING ROOM"
THATS THE DEMAND OF A FAMILY.



• BLOCK PLAN (1:250)



• DOOR SCHEDULE (1:10)



• WINDOW & VENTILATOR SCHEDULE (1:10)

DOOR SCHEDULE						No. of Door
DESCRIPTION	Rate	SA (sq) (net)	LA (sq) (net)	Size (mm)		
D1	5	00	2100	1500x2100		32
D2	5	00	2100	1000x2100		14
D3	5	00	2100	2400x2100		2
D4	5	00	2100	2300x2100		2

WINDOW SCHEDULE						No. of WINDOW
DESCRIPTION	Rate	SA (sq) (net)	LA (sq) (net)	Size (mm)		
W1	5	1200	2100	900x900		16
W2	5	300	2100	2000x1800		32
W3	5	800	2100	1000x1200		32
W4	5	300	2100	800x1200		12
W5	5	600	2400	3000x1800		8

VENTILATOR SCHEDULE						No. of ventilator
DESCRIPTION	Rate	SA (sq) (net)	LA (sq) (net)	Size (mm)		
V1	5	2100	2400	500x500		32
V2	5	2100	2400	1000x500		14

COURSE CODE - ARC - 30
COURSE NAME - WORKING DRAWING

TOPIC -
DOOR WINDOW SCHEDULE

LEGEND -

NOTES -
ALL DIMENSIONS ARE IN MM

SUBMITTED TO -
MR. PRIMA RAO

SCALE - DATE -
1:250 1:100 31/03/2020

REMARKS -

SUBMITTED BY -

NAME - SUNNY CHETRY

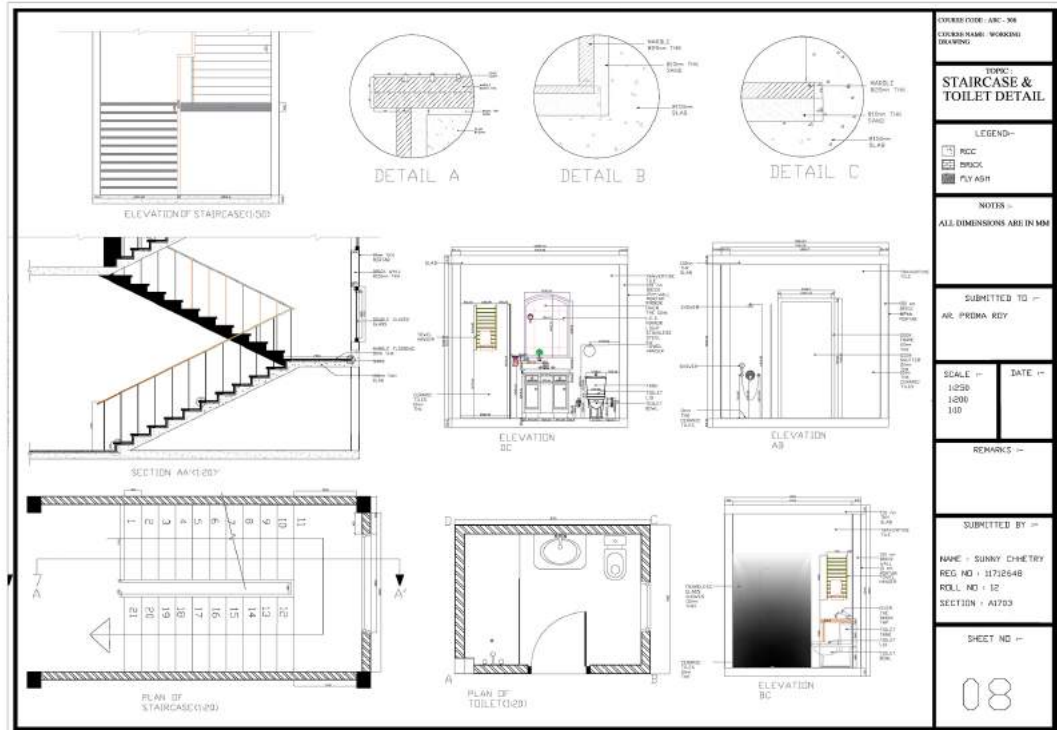
REG NO - 11712648

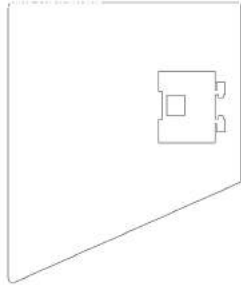
ROLL NO - 12

SECTION - A1793

SHEET NO -

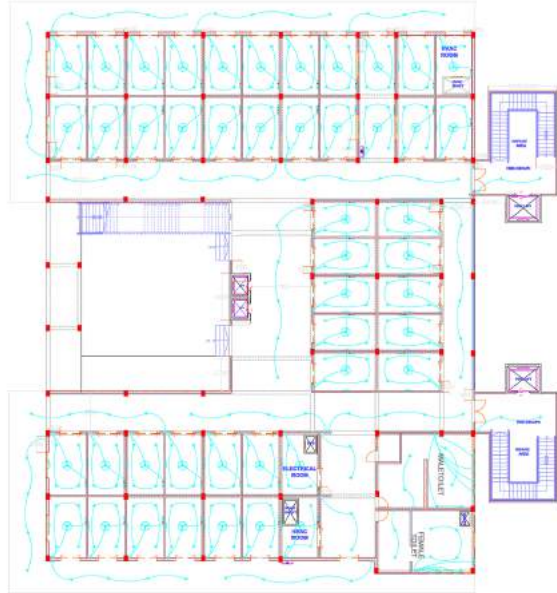
03





KEY PLAN (1:500)

SYMBOL	DESCRIPTION	HEIGHT
	15-A SWITCH AND SOCKET FOR AC SWITCH & SOCKET	SWITCH - 15" SOCKET - 89"
	WALL BRACKET LIGHT POINT	WALL BRACKET LIGHT - 87"
	15-A SWITCH AND SOCKET	SWITCH & SOCKET - 15"
	3-A SWITCH AND SOCKET	SWITCH & SOCKET - 15"
	EXHAUST FAN POINT	8"
	SWITCH BOARD	SWITCH BOARD - 4"
	FAN BOX	9"
	TUBE LIGHT	8" HIGH AND 8" C/C DISTANCE
	AIR CONDITIONER	8"
	VPZ	



ELECTRICAL LAYOUT (1:75)

COURSE CODE:
ABC-188
COURSE NAME:
WORKING DRAWING

TOPIC:
ELECTRICAL LAYOUT

LEGEND:-

NOTES:-
ALL DIMENSIONS ARE IN MM

SUBMITTED TO:-
MR. KRISHNA MATHUR
MR. ATIKSHA KUNDU

SCALE:- DATE:-
1/500 05/09/2008

REMARKS:-

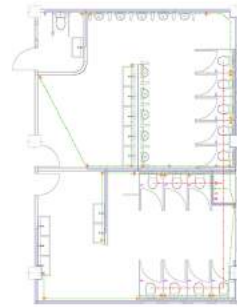
SUBMITTED BY:-
NAME:- SUNNY CHETRY
REG NO:- 11712648
ROLL NO:- 12
SECTION:- A1703

SHEET NO:-

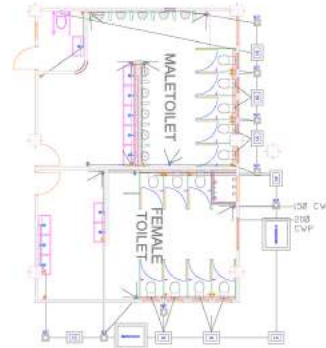
08



PLUMBING LAYOUT (1:100)



PLUMBING LAYOUT (1:500)



SEWAGE LAYOUT (1:500)

COURSE CODE:
ABC-188
COURSE NAME:
WORKING DRAWING

TOPIC:
PLUMBING & SEWAGE PLAN

LEGEND:-

- - 25 MM FRESH WATER
- - 100 MM COOL WATER
- - 75 MM RAIN WATER PIPE
- - 100 MM SEWAGE TAKE
- - 50 MM GREY WATER PIPE

NOTES:-
ALL DIMENSIONS ARE IN MM

SUBMITTED TO:-
MR. KRISHNA MATHUR
MR. ATIKSHA KUNDU

SCALE:- DATE:-
1/500 03/09/2008

REMARKS:-

SUBMITTED BY:-
NAME:- SUNNY CHETRY
REG NO:- 11712648
ROLL NO:- 12
SECTION:- A1703

SHEET NO:-

07



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