

# ARCHITECTURE PORTFOLIO

UDDESHYA PORWAL

SELECTED WORKS 2021-2024



IMAGINATION IS BOUNDLESS, HOW MUCH YOU CAN THINK AND TURN INTO REALITY IS WHAT MATTERS ...

**ARCHITECTURE**, IN MY OPINION IS ABOUT CREATIVITY AND IMAGINATION AND HOW TO TURN IT INTO REALITY. BY INCORPORATING ALL ASPECTS LIKE STYLE, CULTURE, TRADITIONAL,ART, ECONOMICAL, SOCIAL AND TECHNOLOGICAL ADVANCEMENTS INTO DESIGN AND BRING INTO REALITY.

HELLO !

I am **UDDESHYA PORWAL**, pursuing Architecture from Malaviya National Institute of Technology, Jaipur, Rajasthan intending to apply at your firm.

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## EDUCATION

10th CBSE   2017	D.A.V PUBLIC SCHOOL, TALWANDI, KOTA	9.0 C.G.P.A
12th CBSE   2019	D.A.V PUBLIC SCHOOL, TALWANDI, KOTA	75 %
BACHELORS OF ARCHITECTURE   2020-2025	MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR	63.5 C.G.P.A

## WORK EXPERIENCES

PROFESSIONAL TRAINING | 2024  
THE FORMS, 4-G-18, Sector 5, Jawahar Nagar, Jaipur, Rajasthan

PROJECTS

**MEASURE DRAWING AND REDEVELOPMENT**  
**More Haveli, Nawalgarh, Rajasthan,**  
**CONSERVATION AND DEVELOPMENT WORKS**  
**Jamvaymata, Jamwa Ghat, Rajasthan**  
**WORKING DRAWING**  
**Arabella Apartments, Jaipur**  
**MEASURE DRAWING**  
**Sardargarh Fort, Udaipur, Rajasthan**

## SOFTWARE SKILLS

- 2D DRAFTING	AUTOCAD   REVIT
- 3D VISUALISATION AND MODELING	SKETCHUP   REVIT
- RENDERING	LUMION   V-RAY   ENSCAPE
- ADOBE CREATIVE	PHOTOSHOP   ILLUSTRATOR
- MS OFFICE	WORD   EXCEL   POWERPOINT

## ARCHITECTURAL COMPETENCIES

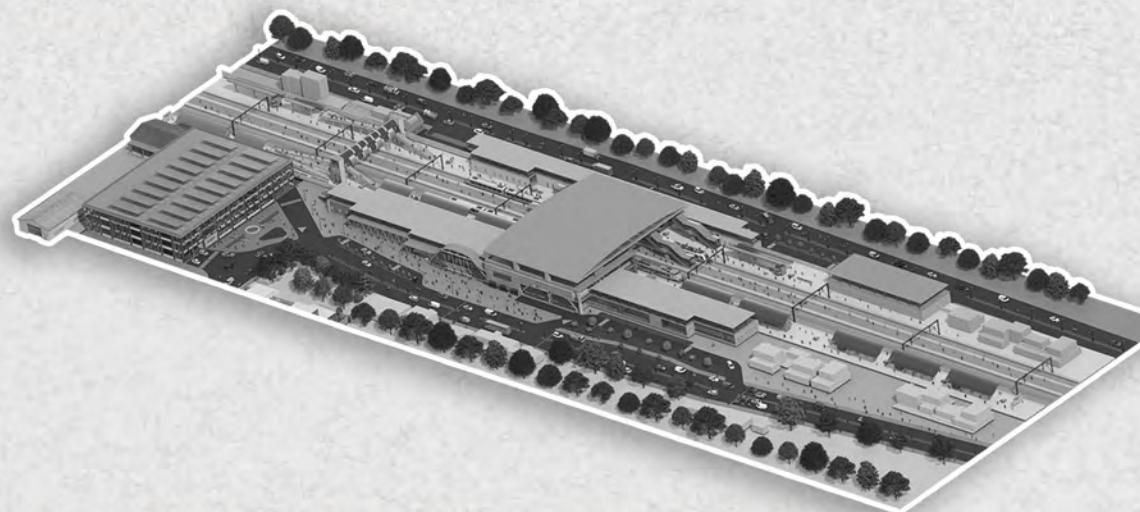
- 3D MODELLING
- DIGITAL AND HAND DRAFTING
- SKETCHING
- GRAPHIC DESIGN
- VISUALISTION

## INTERESTS

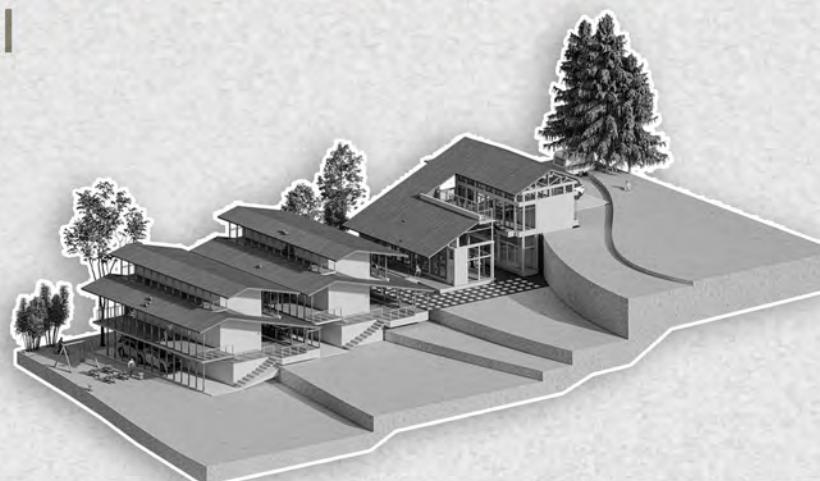
- BADMINTON
- BASKETBALL
- PHOTOGRAPHY
- TRAVELLING
- SINGING

# CONTENT

## 01 RAILWAY STATION DURGAPURA, JAIPUR



## 03 BACKPACKER's HOSTEL SHIVPURI



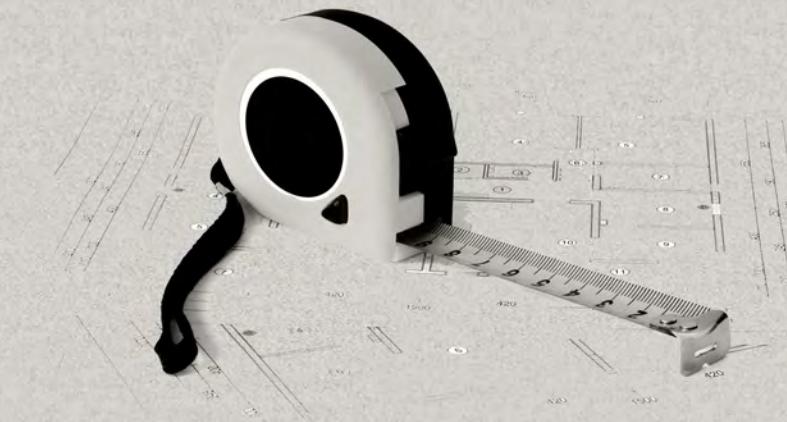
## 05 MISCELLANEOUS



## URBAN MEDICAL HUB 02 SITAPURA, JAIPUR



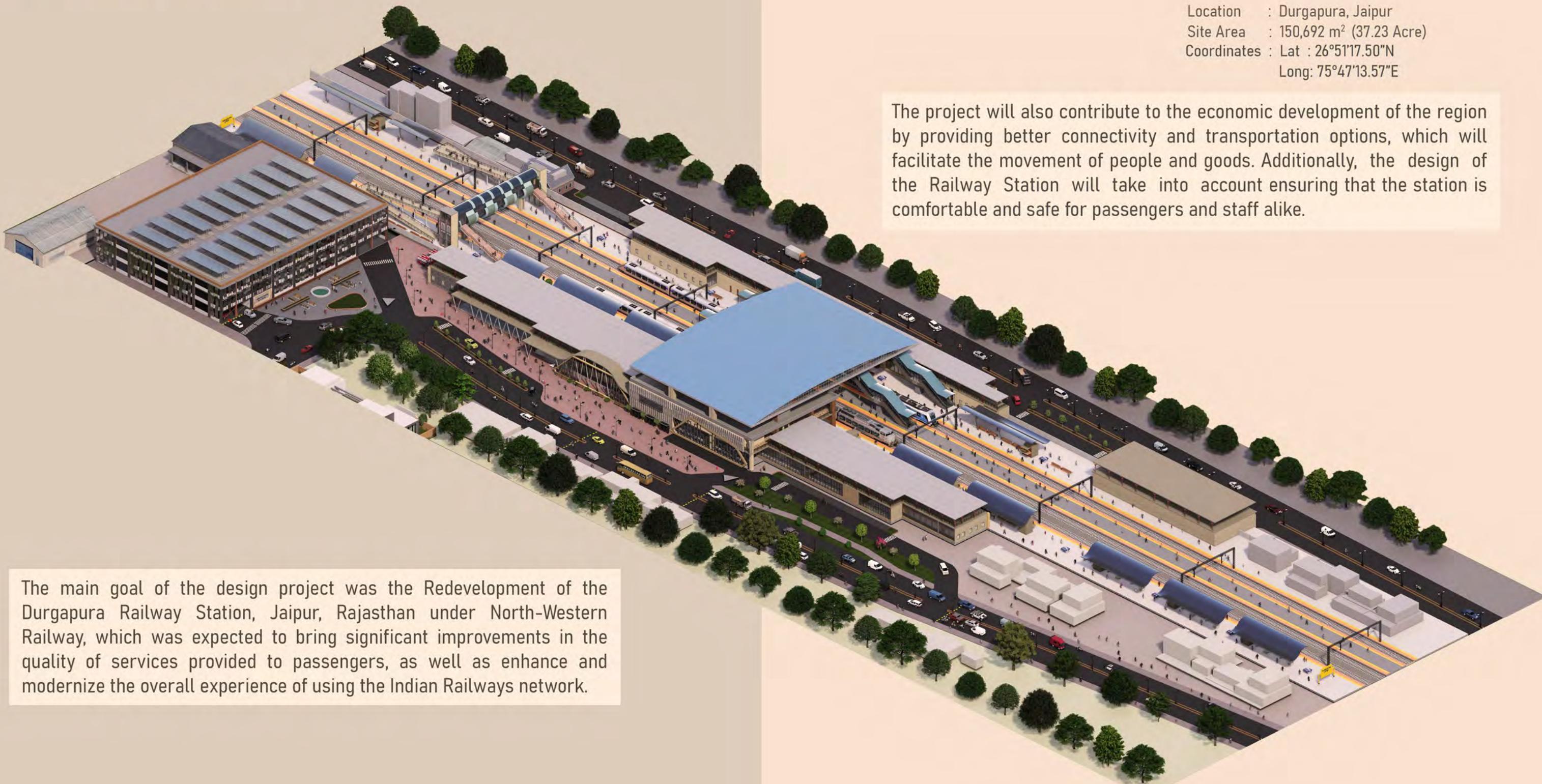
## MEASURE DRAWING 04 NAWALGARH



# 01

## REDEVELOPMENT OF DURGAPURA RAILWAY STATION, JAIPUR

( VII Sem. Design Project )

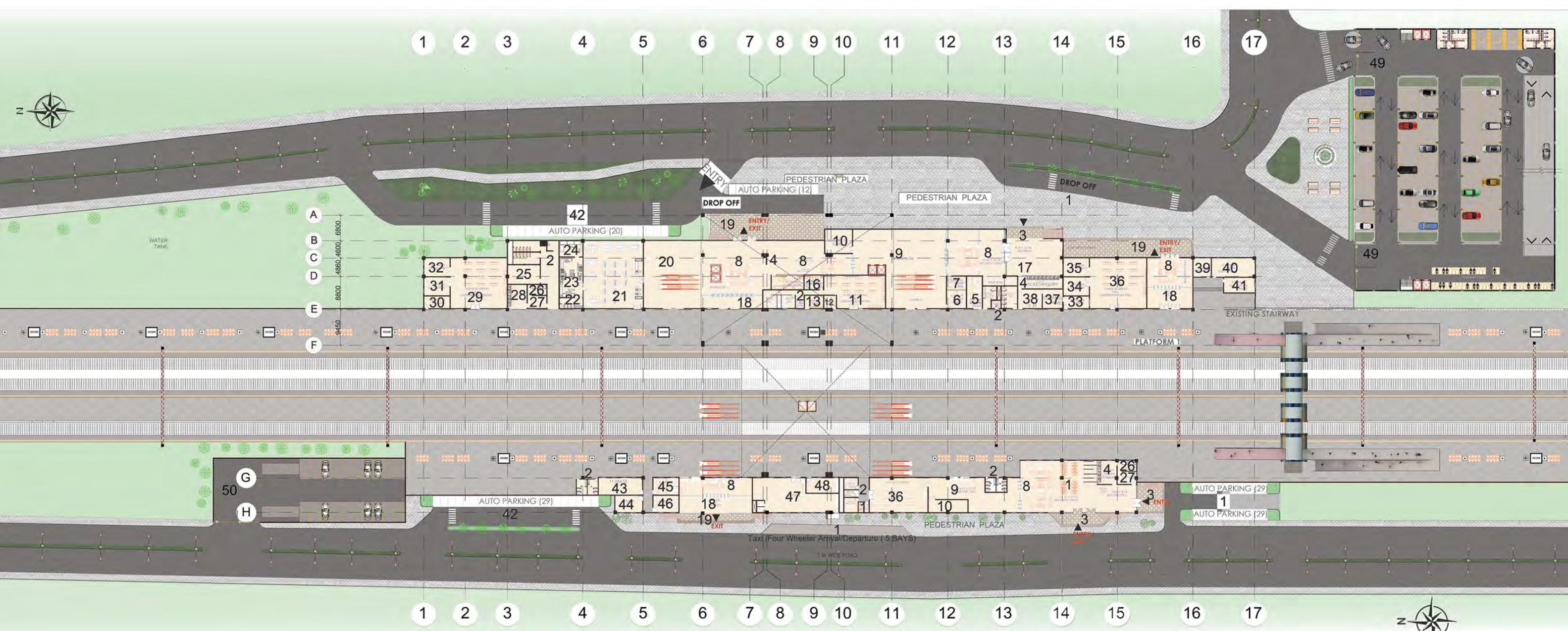


The main goal of the design project was the Redevelopment of the Durgapura Railway Station, Jaipur, Rajasthan under North-Western Railway, which was expected to bring significant improvements in the quality of services provided to passengers, as well as enhance and modernize the overall experience of using the Indian Railways network.



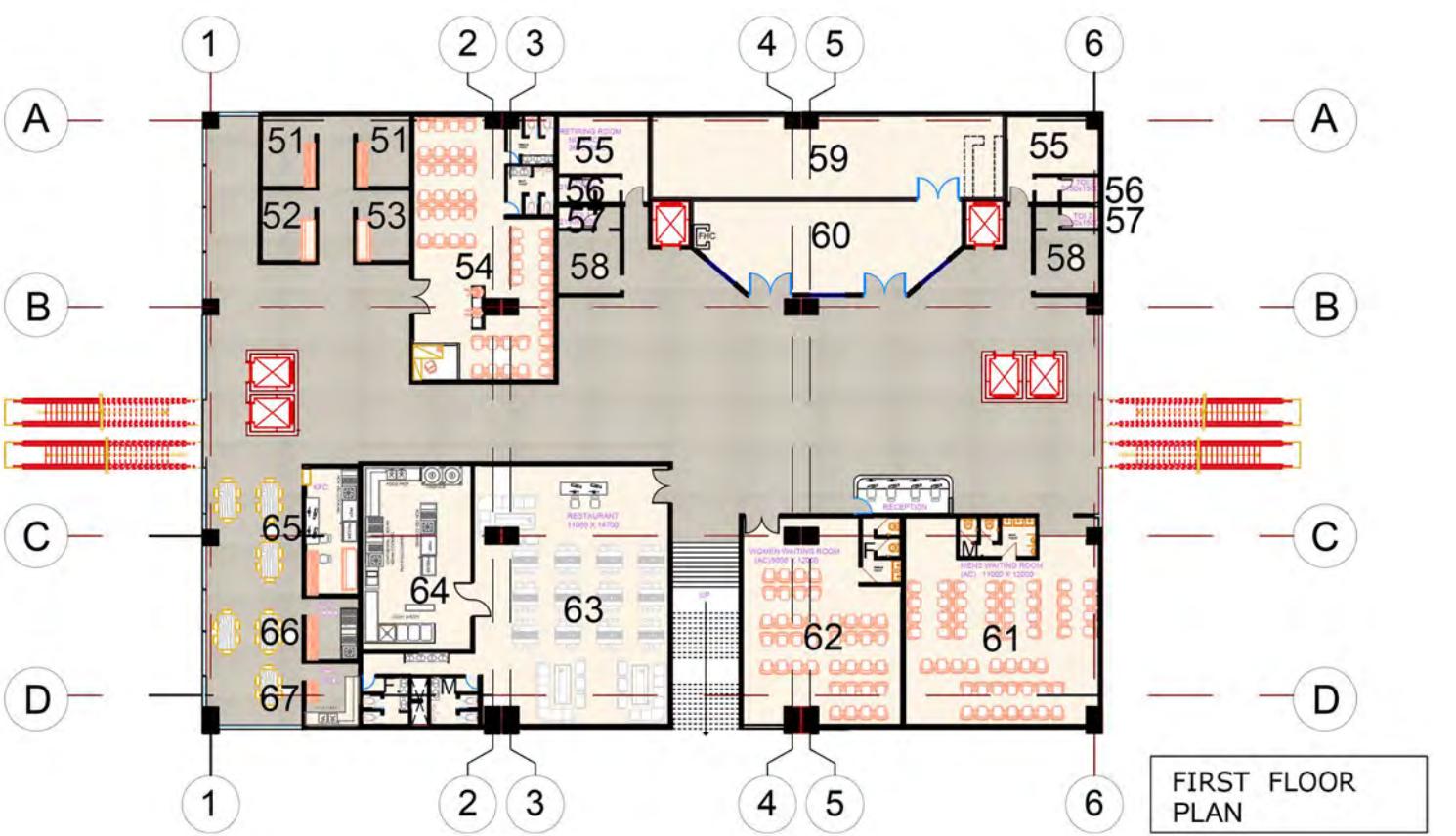
Location : Durgapura, Jaipur  
Site Area : 150,692 m<sup>2</sup> (37.23 Acre)  
Coordinates : Lat : 26°51'17.50"N  
Long: 75°47'13.57"E

The project will also contribute to the economic development of the region by providing better connectivity and transportation options, which will facilitate the movement of people and goods. Additionally, the design of the Railway Station will take into account ensuring that the station is comfortable and safe for passengers and staff alike.

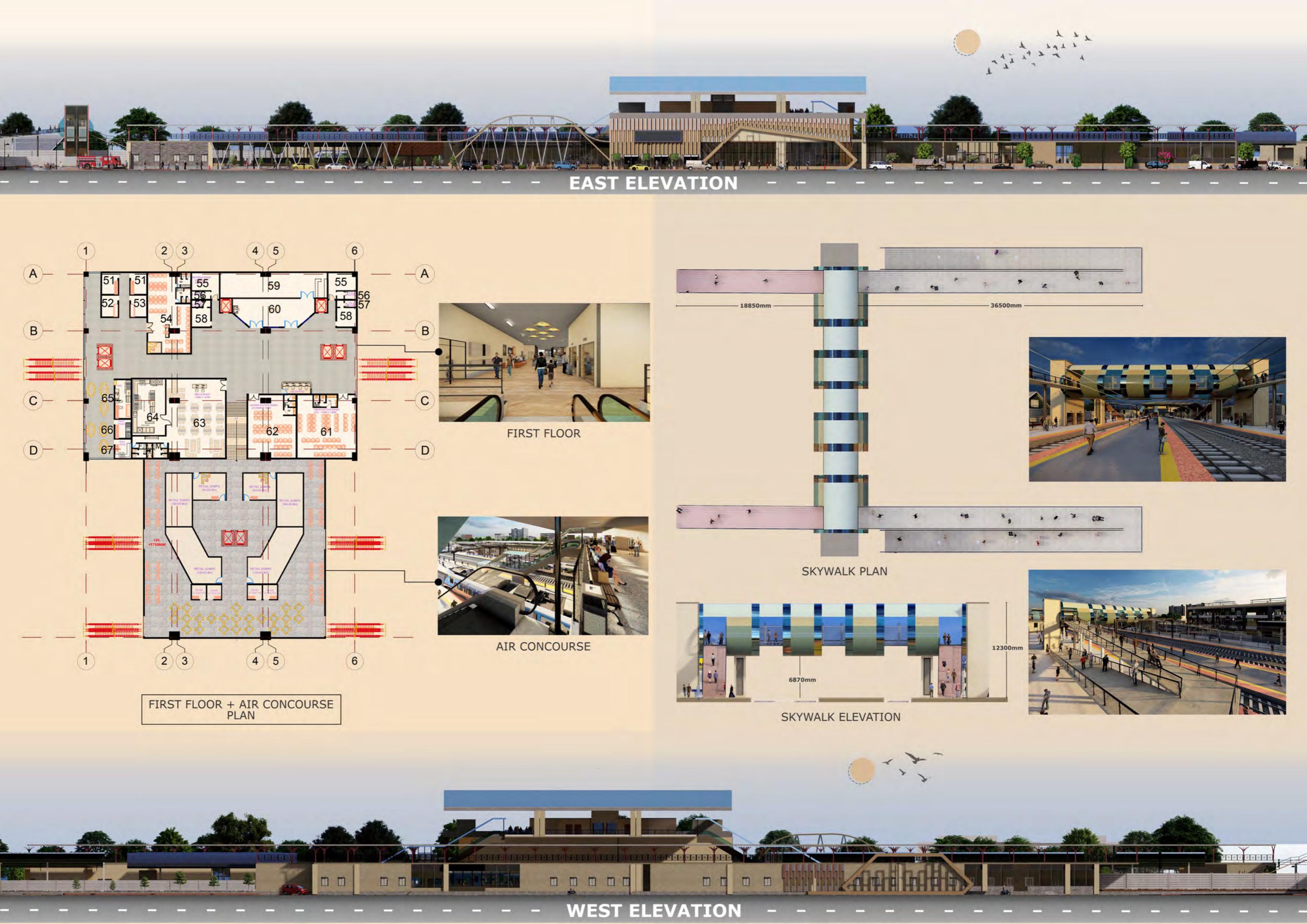


### LEGENDS (GROUND FLOOR PLAN)

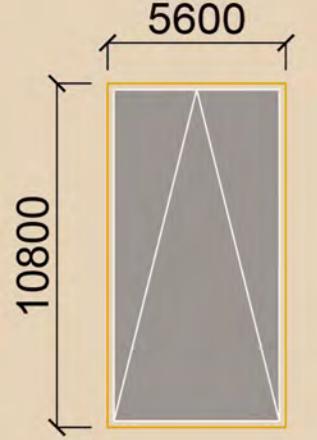
1. DROP OFF
2. TOILOETS
3. ENTRANCE
4. TICKET / ENQUIRY
5. STATION MASTER ROOM
6. HEAD TC ROOM
7. RPF ROOM
8. SECURITY CHECK
9. DEPARTURE HALL
10. ELECTRIC ROOM
11. RESERVED WAITING HALL
12. RETAIL SHOPS
13. FOOD CORNER
14. VESTIBULE
15. CLOAK ROOM
16. BABY CARE
17. QUEUING HALL
18. ARRIVAL
19. EXIT
20. ACTIVITY HALL
21. RESTAURANT
22. STAFF TOILET
23. KITCHEN
24. STORAGE ROOM
25. LOST AND FOUND OFFICE



- |                                      |  |
|--------------------------------------|--|
| 26. SECURITY ROOM                    | 51. LOCAL HANDI- CRAFTS                  |
| 27. CHECKING ROOM                    | 4000 X 3000                              |
| 28. ENQUIRY ROOM                     | 52. INDIAN SWEETS 4000 X 3000            |
| 29. UNRESERVED WAITING               | 53. TOY SHOP 4000 X 3000                 |
| 30. RAIL MAIL SERVICE                | 54. WAITING LOUNGE 15000 X 8000          |
| 31. S AND T STORE                    | 55. RETIRING ROOM NON AC-1               |
| 32. S AND T STORE                    | 3600x3550                                |
| 33. ENQUIRY                          | 56. TOILET F. 2150x1500                  |
| 34. S AND T STORE                    | 57. TOILET M. 2150x1500                  |
| 35. S AND T STORE                    | 58. RETIRING ROOM AC-1                   |
| 36. UNRESERVED WAITING               | 5200x3300                                |
| 37. CONTROL PANEL                    | 59. KIDS PLAY AREA 20000 X 3630          |
| 38. STATION MASTER ROOM              | 60. GAME ROOM 20000 X 3630               |
| 39. OFC ROOM                         | 61. MENS WAITING ROOM                    |
| 40. ELECTRICAL PANEL AND SWITCH ROOM | (AC) 11000 X 12000                       |
| 41. RAIL SERVER ROOM                 | 62. WOMEN WAITING ROOM (AC) 9000 X 12000 |
| 42. AUTO PARKING                     | 63. RESTAURANT 11000 X 14500             |
| 43. FIRST AID ROOM                   | 64. PREPARATION AREA 6200 X 10500        |
| 44. INDIAN MAIL SERVICE ROOM         | 65. KFC 3000 X 7200                      |
| 45. INSPECTOR HEALTH ROOM            | 66. FAST FOODS 3000 X 3500               |
| 46. COOLIE ROOM                      | 67. ROLLS HUB 3000 X 3500                |
| 47. R.P.F THANA STATION              |  |
| 48. FIRE SAFETY ROOM                 |  |
| 49. M.L.C.P.                         |  |
| 50. SIDE PARKING                     |  |

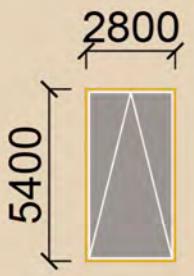


# MULTI - LEVEL CAR PARKING



HEAVY MOTOR VEHICLE  
(5600X10800)MM

Providing 4 slots for  
HMV's



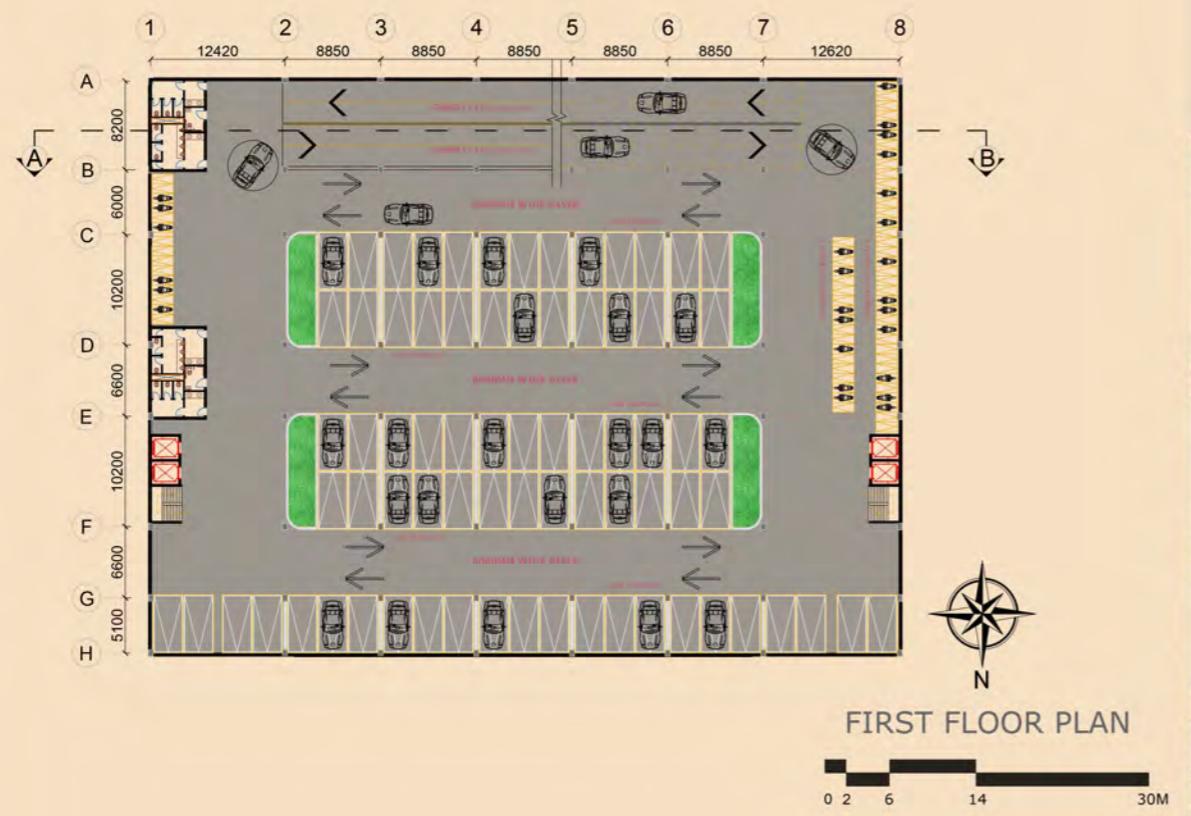
LIGHT MOTOR VEHICLE  
(2800X5400)MM

Providing 195 slots for  
LMV's



MOTORCYCLE WITH /  
WITHOUT GEAR  
(900X2000)MM

Providing 220 slots for  
MCWG's





PLATFORM VIEW FROM FIRST FLOOR



2ND PLATFORM VIEW



DURGAPURA RAILWAY STATION ENTRANCE



NORTH SECTION

02

## URBAN MEDICAL HUB BOMBAY HOSPITAL TRUST, JAIPUR

( IX Sem. Design Project )



Location : Sitapura Industrial Area, Jaipur

Site Area : 301,000 m<sup>2</sup> (74 Acre)

Coordinates : Lat : 26°46'57.1"N

Long: 75°51'46.1"E

### Design Brief :

An Integrated Urban Development that brings together commercial, public, transportation, and recreational features within a unified and sustainable framework. The design emphasizes seamless connectivity, walkability and efficient landuse to enhance urban livability and user experience.

# SITE STUDY OF BOMBAY TRUST HOSPITAL

Bombay Hospital is a tertiary care hospital with all specialties and super specialties under one roof performing entire range of diagnostic, therapeutic and interventional procedures.

Bombay Hospital proposes to build a 500-bed multi super specialty hospital in Jaipur, Rajasthan. The hospital to spread across 5 Lakh sq ft.

The hospital is likely to have specialty wings for cardiology, cardiac surgery, urology, neurology, plastic surgery, cosmetic surgery and diabetes surgery. It will also house a state-of-the-art diagnostic center, blood bank, nursing college and physiotherapy college in the campus.



SITE PLAN WITH TOPOGRAPHY AND NATURAL VEGETATION



SITE ELEVATIONS AND SITE SECTIONS



Source of image: JDA Zone plans used for graphical representation

Location:- Sitapura Industrial Area, Sitapura, Jaipur, Shri Krishnapura, Rajasthan 302022

Site Study Area= 18,36,961 Sq.m or 453 Acre

## CONNECTIVITY

JAIPUR INTERNATIONAL AIRPORT - 13.9 km

JAIPUR JUNCTION-DURGAPURA RAILWAY STATION - 20.5 km

SANGANER BUS STAND - 20.5 km

## CLIMATIC ANALYSIS

AVERAGE TEMPERATURES AND PRECIPITATION OF JAIPUR

WIND ROSE DIAGRAM

AVERAGE TEMPERATURES AND PRECIPITATION OF JAIPUR

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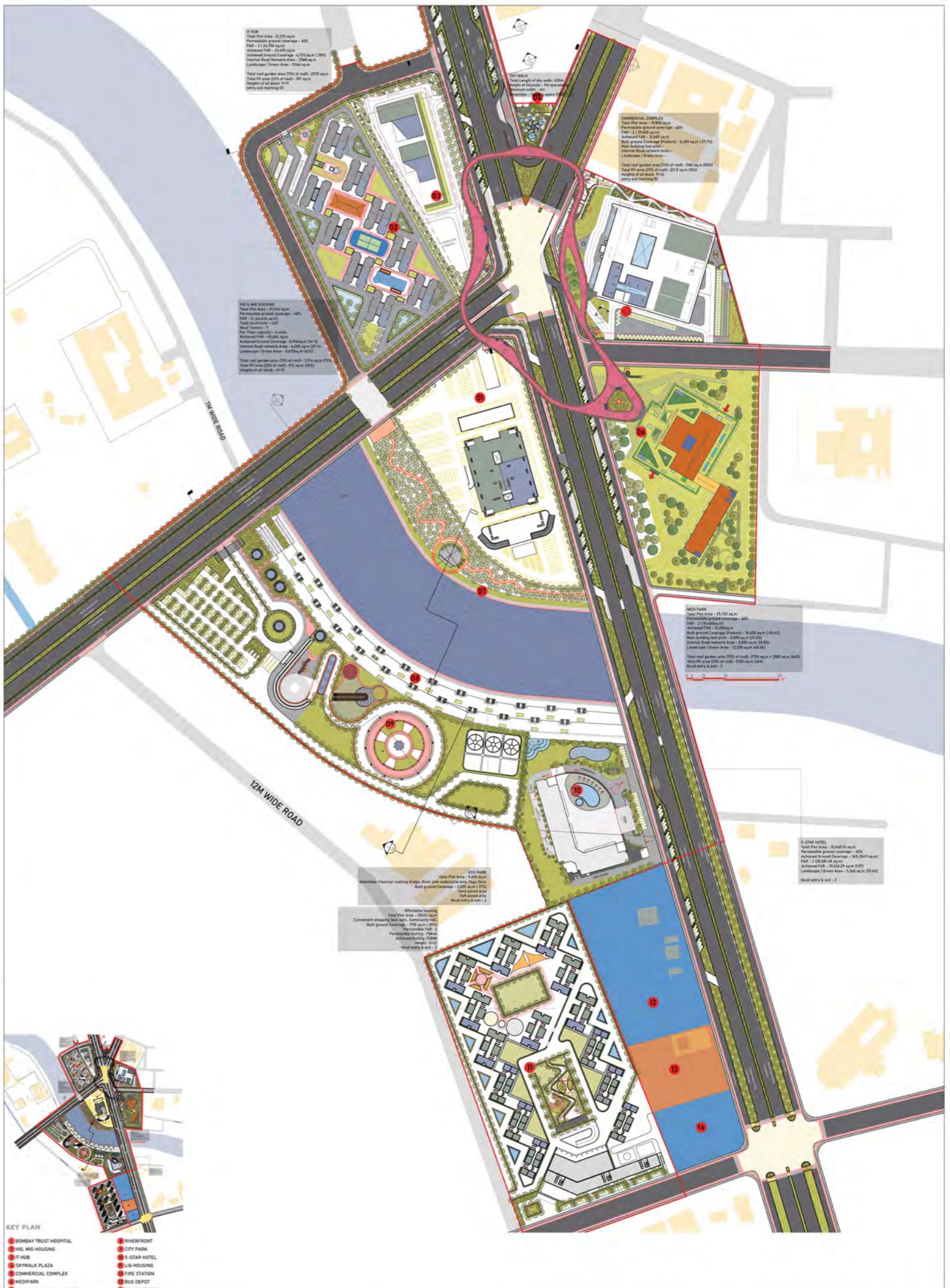
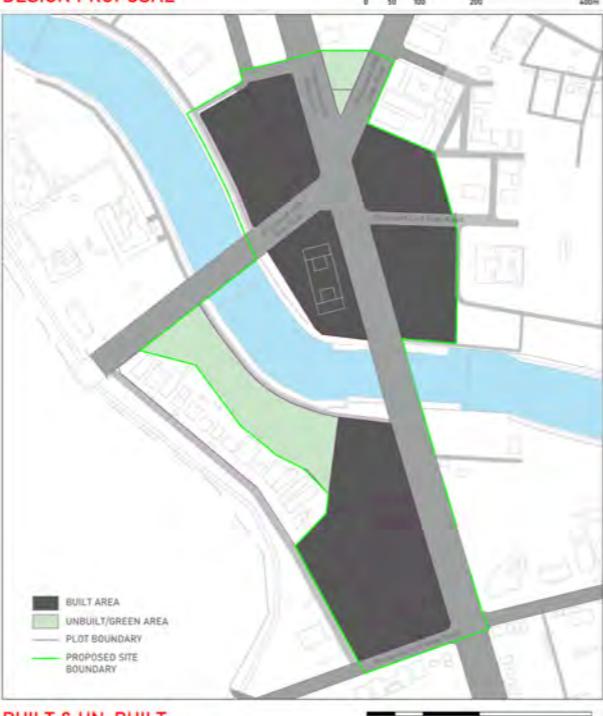
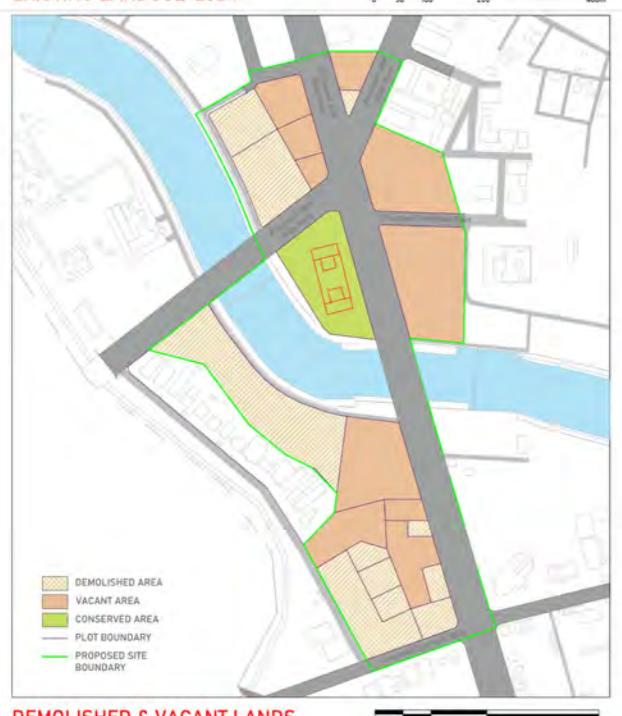
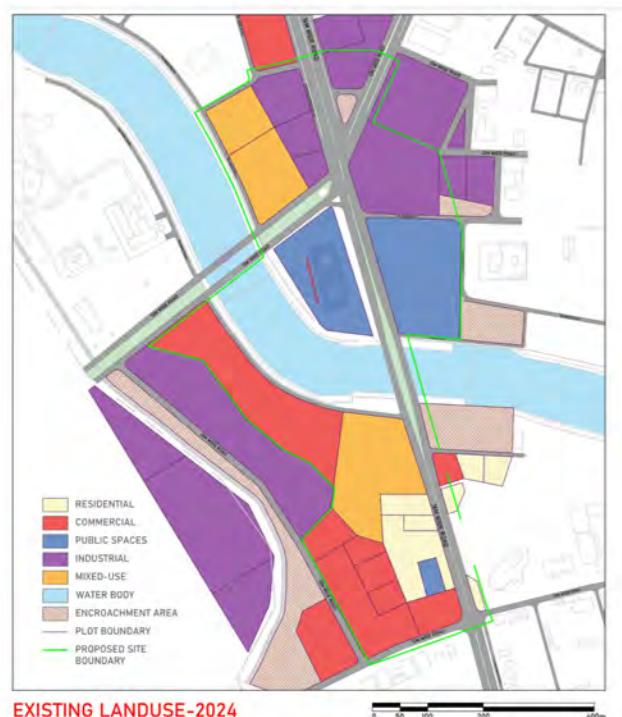
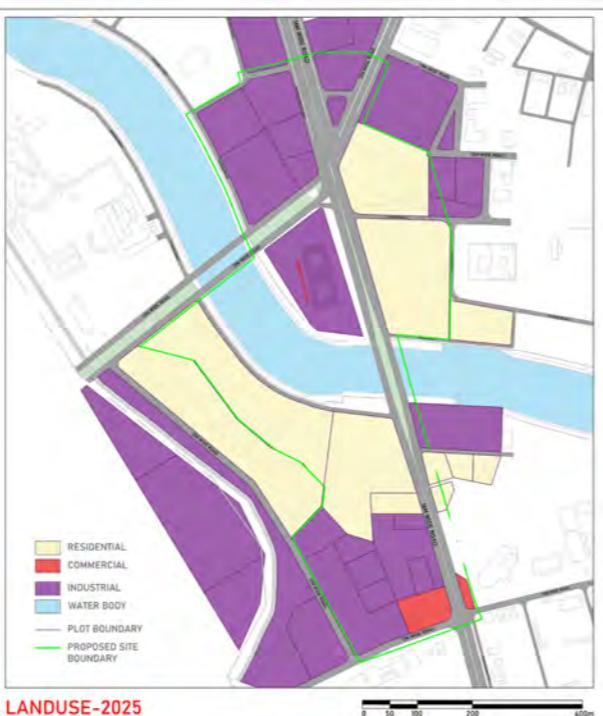
AVERAGE TEMPERATURES AND PRECIPITATION OF JAIPUR

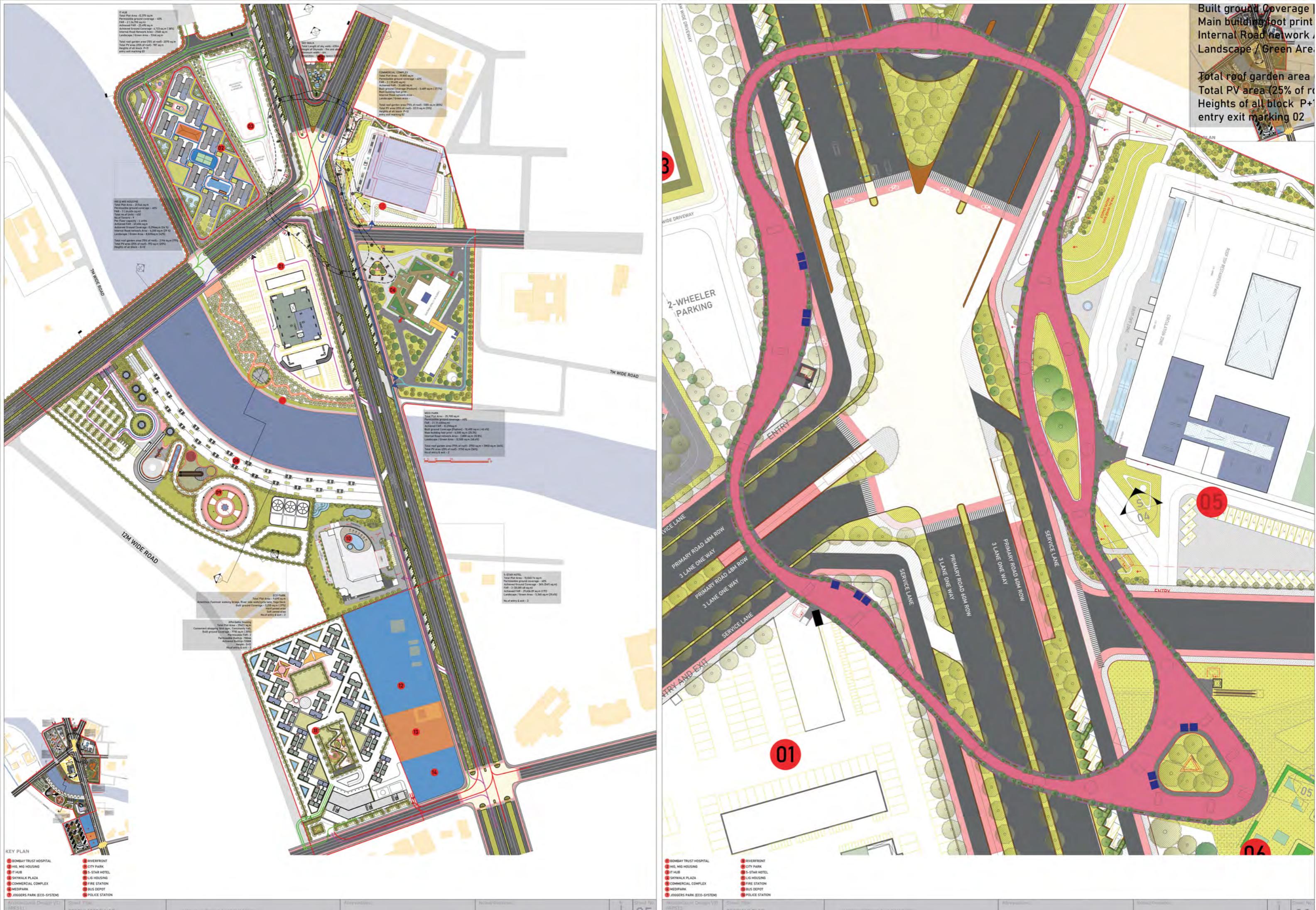
WIND ROSE DIAGRAM

AVERAGE TEMPERATURES AND PRECIPITATION OF JAIPUR

WIND ROSE DIAGRAM

AVERAGE TEMPERATURES AND PRECIPITATION OF JAIPUR

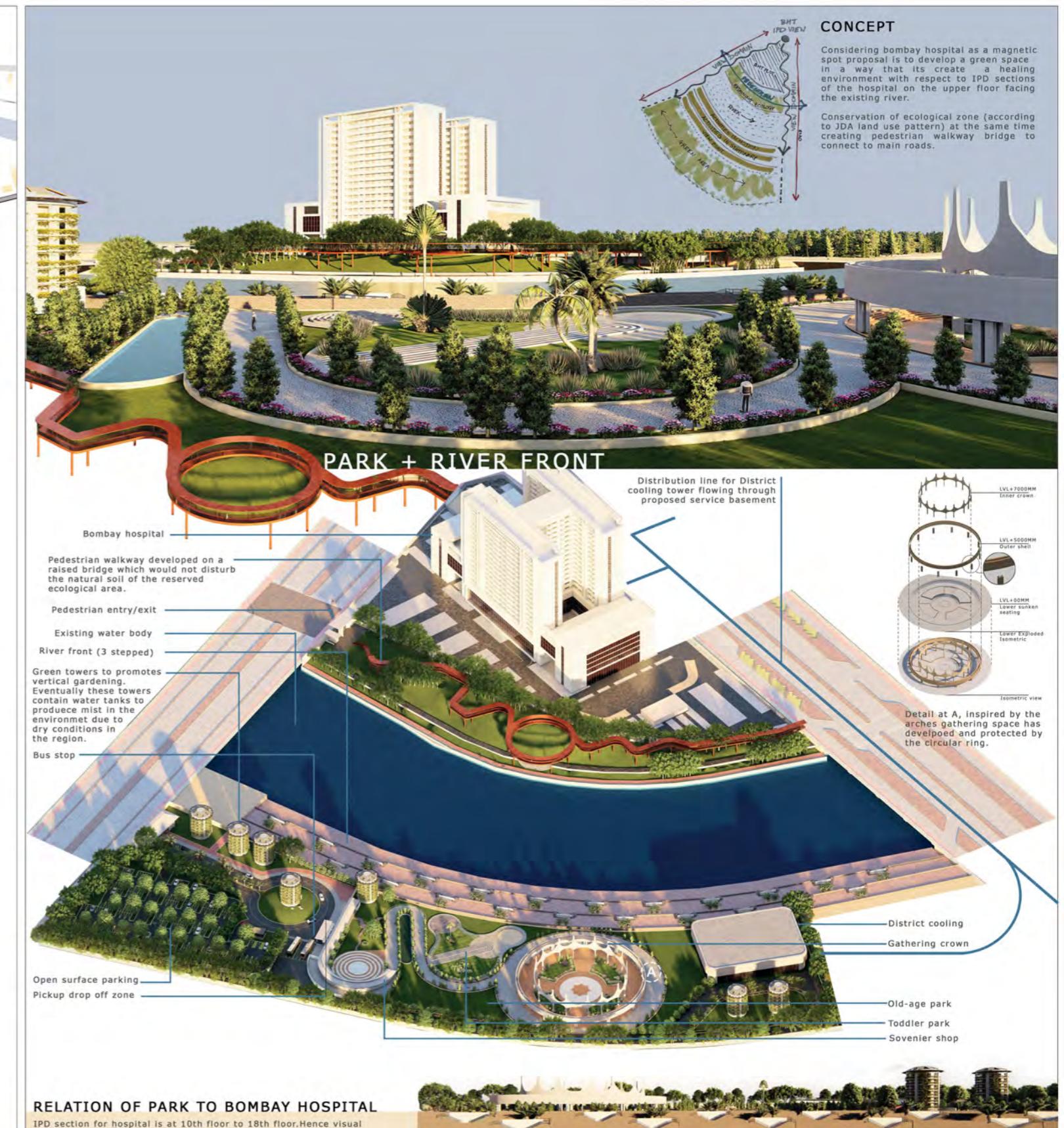




## CONCEPT

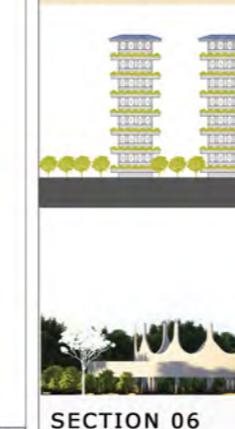
Considering bombay hospital as a magnetic spot proposal is to develop a green space in a way that its create a healing environment with respect to IPD sections of the hospital on the upper floor facing the existing river.

Conservation of ecological zone (according to JDA land use pattern) at the same time creating pedestrian walkway bridge to connect to main roads.



## RELATION OF PARK TO BOMBAY HOSPITAL

IPD section for hospital is at 10th floor to 18th floor. Hence visual healing environment can be created in the form of park.



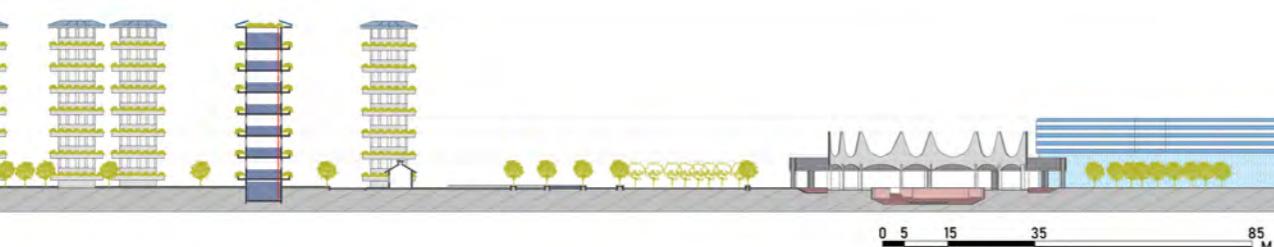
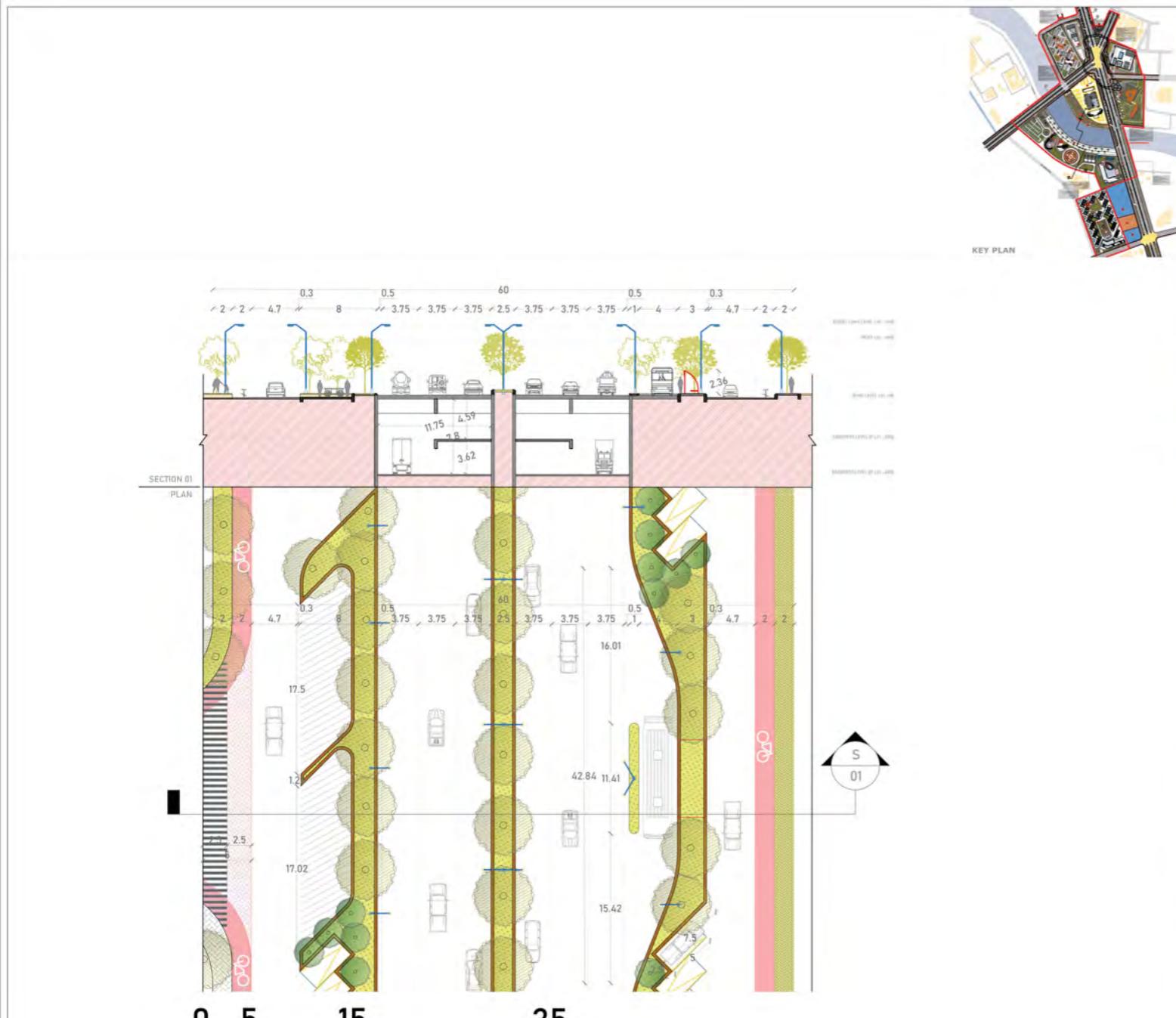
## SECTION 06

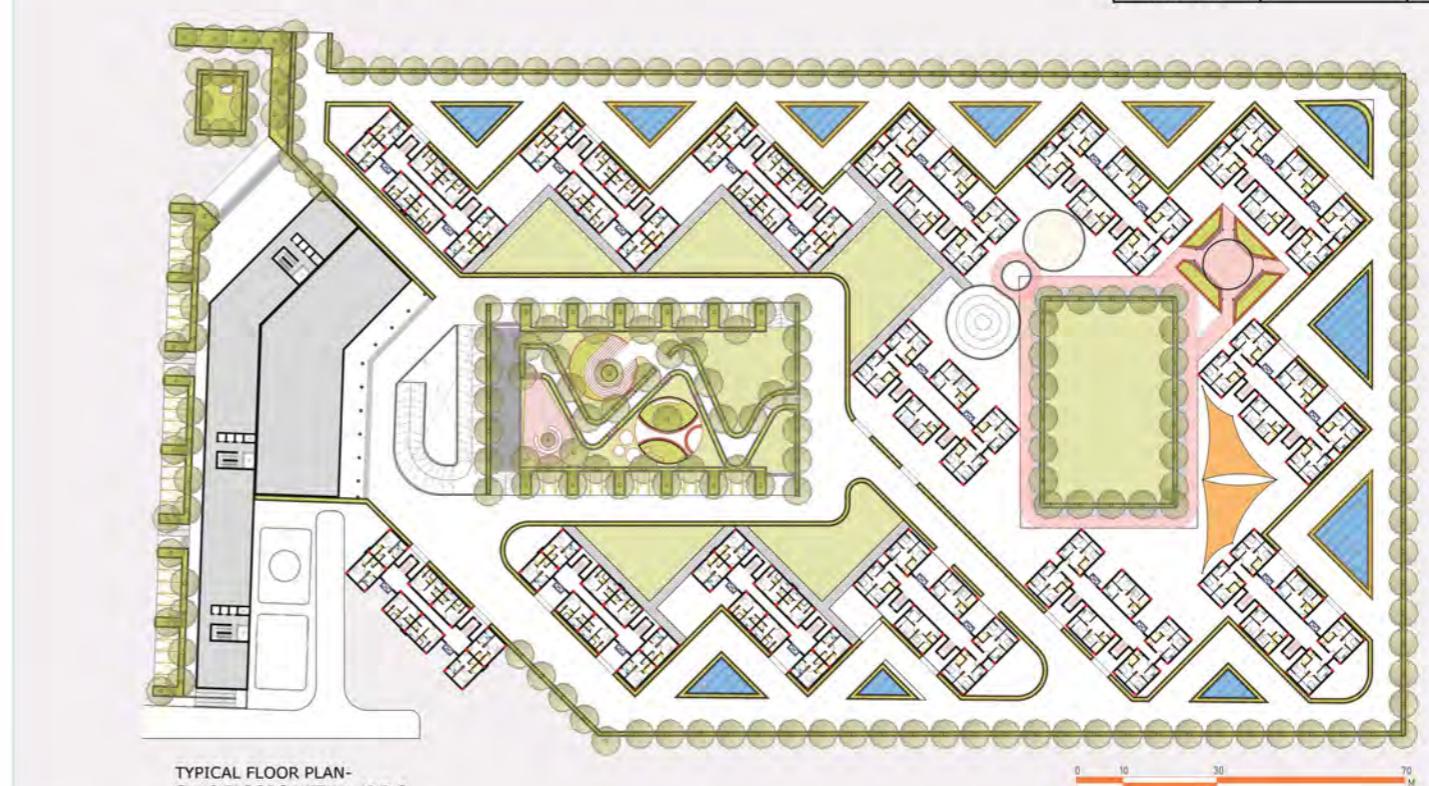
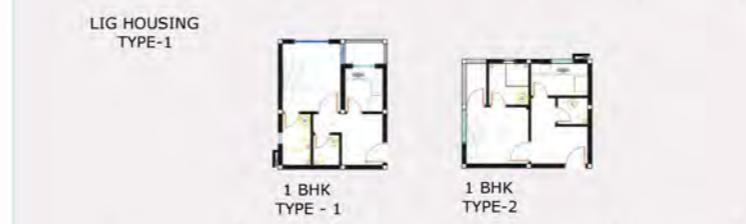
Architectural Design VII  
ARP511

PARK-BOMBAY TRUST HOSPITAL VIEW

32% Green area achieved

Sheet No. 08





DESCRIPTION	Type
Project Name	Proposed LIG Housing
Project Type & Funded By	Housing for low-income groups, private sector
Location	Landmark = Near Bombay hospital Sitalpura Industrial area, Sitalpura, Jaipur
SITE DETAILS	Data
Total Plot Area (m <sup>2</sup> and Acres)	38,000 sqm and 9.39 acres
Area of Intervention	Low-cost Affordable housing for LIG, MIG
Orientation	North-South orientation
Wind Direction	Predominantly East to West
Common Open Plot (COP) + Land Under Roads (m <sup>2</sup> )	
Total Built-Up Area Allowed by Government	As per local zoning regulations
Total Built-Up Area (m <sup>2</sup> )	1 BHK Flat - 4,160 sq.m
All 1 BHK Type 1 and 2	24,960 sq.m
2 BHK Type 1	2,808 sq.m
2 BHK Type 2	1,560 sq.m
2 BHK Flat Total	34,944 sq.m
Clubhouse (G+1)	1321 sq.m
Convenient shopping (G+1)	1232 sq.m
Total = 65,010 sq.m	
FSI Allowed	2
FSI Consumed on-site	1.71 (approx.)
Maximum Allowed Height (m)	42.8 meters
No of Floors (G+1 format)	1 BHK and 2 BHK G+12
AFFORDABILITY PARAMETERS	
Total Plot Area (m <sup>2</sup> and Acres)	39,100 sqm and 9.66 acres
No. of Units	1152 units
576, 1 BHK flats	576, 2 BHK flats
Individual Housing Unit Area (m <sup>2</sup> )	40-60 m <sup>2</sup> (average)
Average Land Area Consumed by Each Unit	1 BHK Type 1 and 2 - 40 sq.m
	2 BHK Type 1 - 54 sq.m and Type 2 - 60 sq.m
Percentage of Land Under Dedicated Parking	59,904
Surface Parking Lots	Convenient shopping (G+1) 30
	Common Garden 30
Basement Parking	2-wheeler 492 4-wheeler 180
Dwelling Unit Density (no. of units)	125 units per hectare and 160 housing units
Dwelling Unit Density (no. of units per acre)	576, 1 & 2 BHK flats 119.25
Types of Dwelling Units in BHK	1BHK, 2BHK

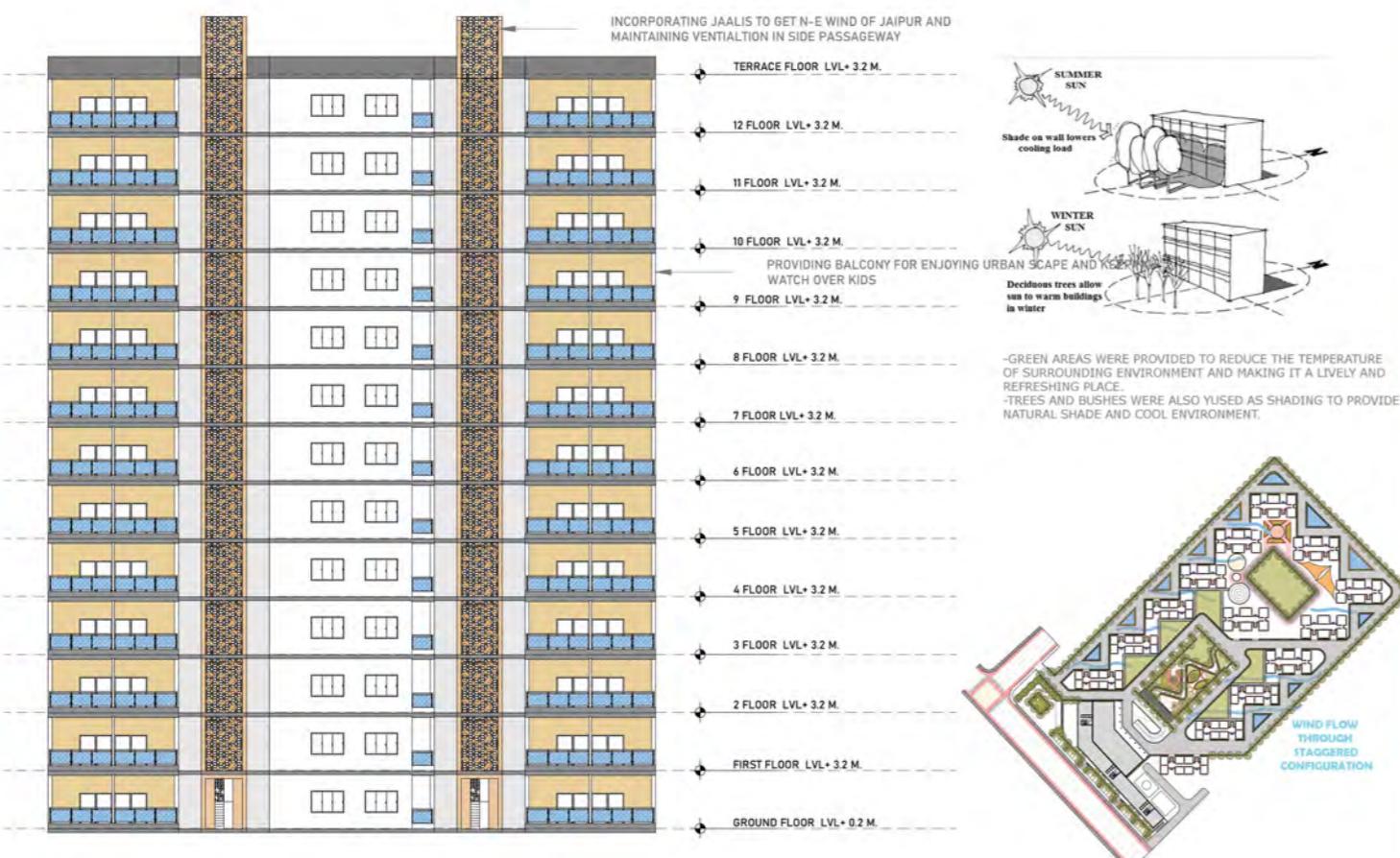


LIG HOUSING - TYPE 1

-BUILDING ELEVATION IS DESIGNED IN CONTEMPORARY STYLE TO MATCH THE SURROUNDING LANDSCAPE.  
-MATERIALS USED HERE WERE LOCALLY IMPORTED TO REDUCE TRANSPORTATION COSTS.  
-MATERIALS USED WERE SANDSTONE AND ROUGH PLASTER WHICH HAVE GOOD R-VALUE AND THERMAL RESISTIVITY TO COMBAT THE HARSH WEATHER OF JAIPUR.



-DIFFERENT AREAS WERE PROVIDED TO FULFIL THE NEEDS SO THE YOUTH DON'T HAVE TO TRAVEL OUTSIDE FOR BASIC AMENITIES.



LIG HOUSING - TYPE 2

-INCORPORATING JAALIS TO GET N-E WIND OF JAIPUR AND MAINTAINING VENTILATION IN SIDE PASSAGEWAY.  
-SUMMER SUN: Shade on wall lowers cooling load.  
-WINTER SUN: Deciduous trees allow sun to warm buildings in winter.  
-PROVIDING BALCONY FOR ENJOYING URBAN SCAPE AND KEEP WATCH OVER KIDS.  
-GREEN AREAS WERE PROVIDED TO REDUCE THE TEMPERATURE OF SURROUNDING ENVIRONMENT AND MAKING IT A LIVELY AND REFRESHING PLACE.  
-TREES AND BUSHES WERE ALSO USED AS SHADING TO PROVIDE NATURAL SHADE AND COOL ENVIRONMENT.



-BUILDINGS WERE CONFIGURED IN STAGGERED ARRANGEMENT TO ENHANCE PRIVACY, BETTER NATURAL LIGHT, IMPROVED AIRFLOW, AND AESTHETIC VARIETY. THEY REDUCE NOISE, MAXIMIZE LAND USE, AND CREATE A MORE SPACIOUS, COMMUNITY FRIENDLY ENVIRONMENT.



SECTIONAL VIEW - TYPE 2

ISOMETRIC VIEW OF SITE



FRONT VIEW WITH SHOPPING PLAZA AND PARKING



KIDS PLAY AREA WITH RESTING SPACE



CENTRAL PARK VIEW WITH SURROUNDING SCAPE



SITE SECTION



# 03

## ORCHID

### BACK- PACKER'S HOSTEL

#### SHIVPURI, UTTARAKHAND

( V Sem. Design Project )

The primary objective of the project was to design a backpacking hostel within a constrained timeframe of 72 hours on a contoured site in Uttarakhand located in Shivpuri, near Rishikesh. The hostel was intended to provide casual accommodation for travelers to rest and recharge. The compressed schedule posed challenges, which required efficient planning and decisive execution to deliver a functional facility.



Location : Shivpuri, Uttarakhand  
Site Area : 3720.22 m<sup>2</sup>





UPPER GROUND FLOOR PLAN

0 2 4 8 16 M

PARKING

ADMIN OFFICE

RECEPTION &  
ENTRANCE FOYER

UTILITY

LOUNGE

COURTYARD

WAITING AREA

OPEN BARBECUE AREA

GUEST ROOMS

TERRACE BALCONY

DORMS

TERRACE BALCONY



LOWER GROUND FLOOR PLAN

0 2 4 8 16 M





SECTIONAL ISOMETRIC VIEW  
BACK-PACKER'S HOSTEL

# 04

## MEASURED DRAWING HERITAGE CONSERVATION PROJECT, MORE HAVELI, NAWALGARH

( VIII Sem. Intern Project )

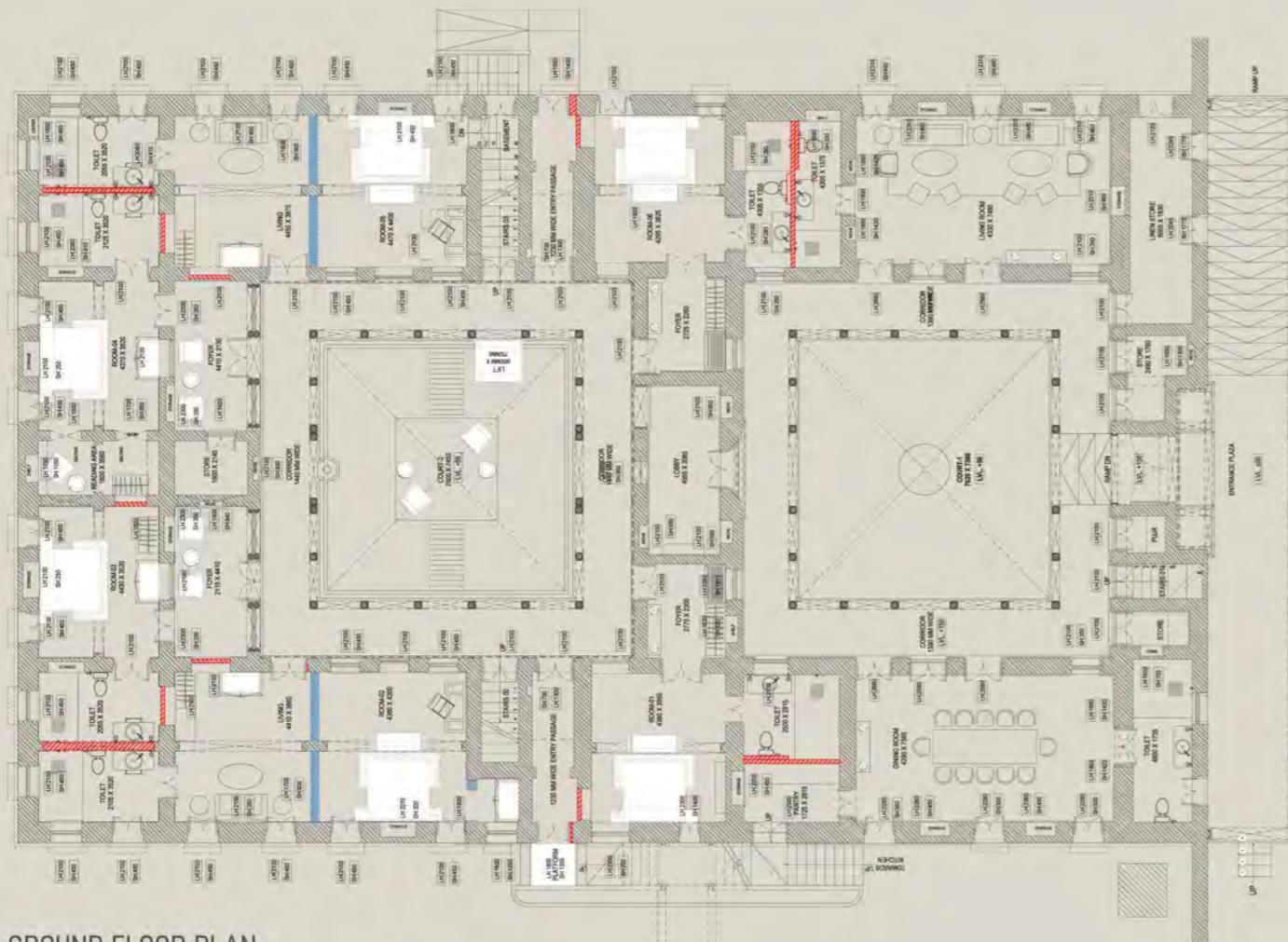
Situated in the Nawalgarh, Rajasthan, the More Haveli is a property owned by the zamindar of that time and currently owned by UMESH MORE. A defining feature of More haveli is the central courtyard, or chowk. This open-air space provided ventilation and natural light, and also served as a social center for the family.

Through comprehensive measured drawings, the team aimed to preserve knowledge of the haveli's ingenious construction techniques, intricate joinery, traditional building materials, and overall design - hallmarks of haveli architecture in that era. By thoroughly analyzing and recording the haveli's unique attributes, the project hoped to not only conserve this specific heritage site, but also modify the overall building into a heritage hotel to let the visitors experience the history and culture of rajasthan.

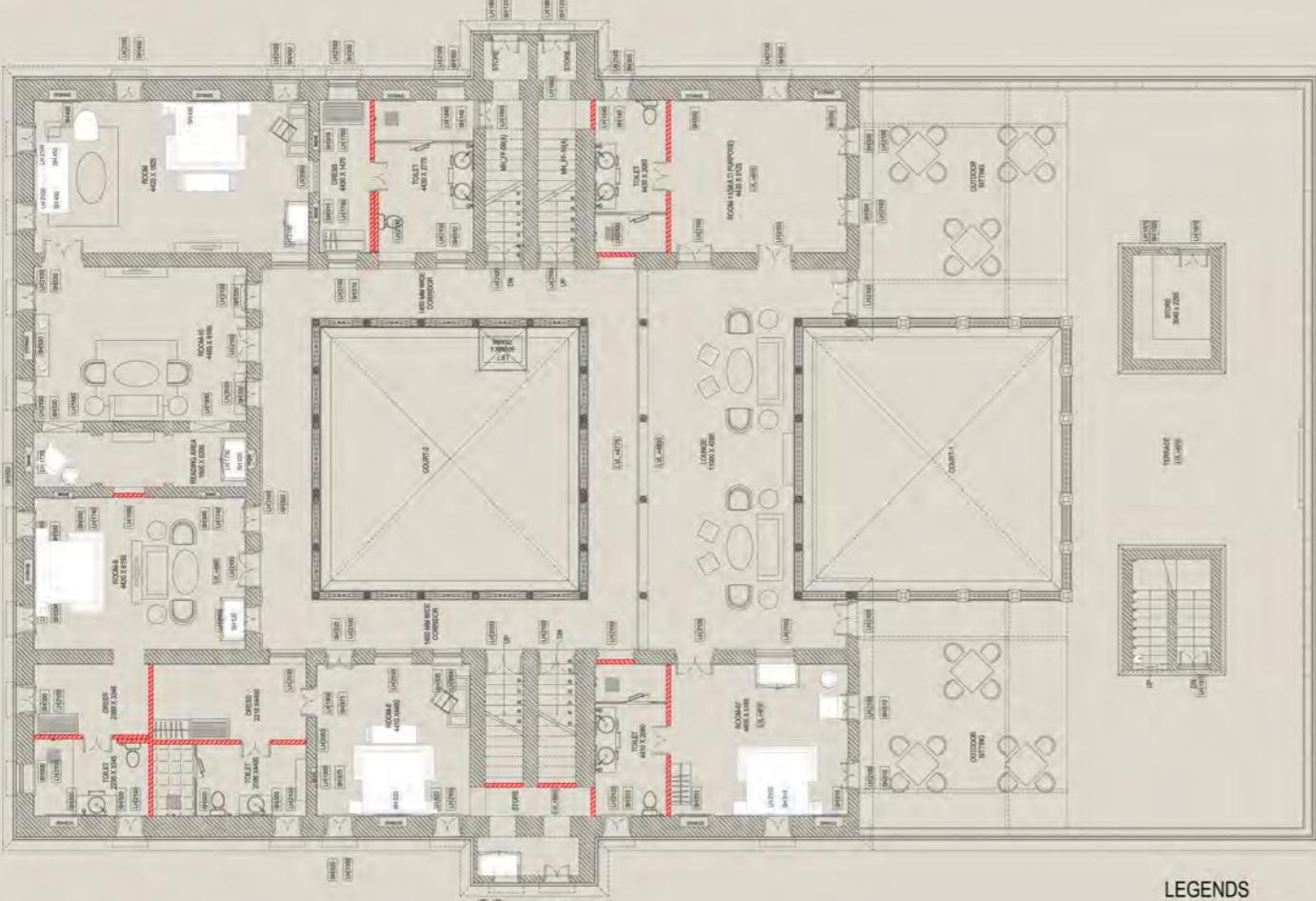


Location : Nawalgarh, Rajasthan  
Site Area : 2,585 m<sup>2</sup>  
Coordinates : Lat: 27°51'30.0"N  
Long.: 75°16'26.7"E





GROUND FLOOR PLAN

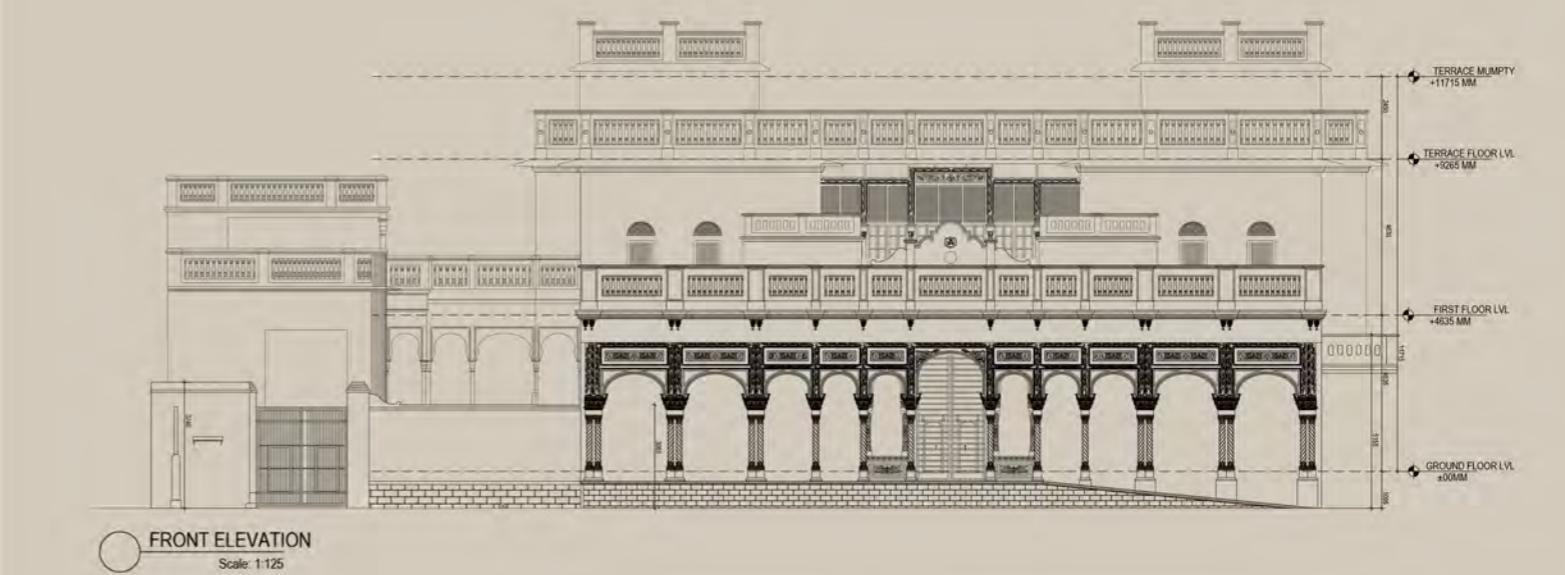


FIRST FLOOR PLAN

LEGENDS

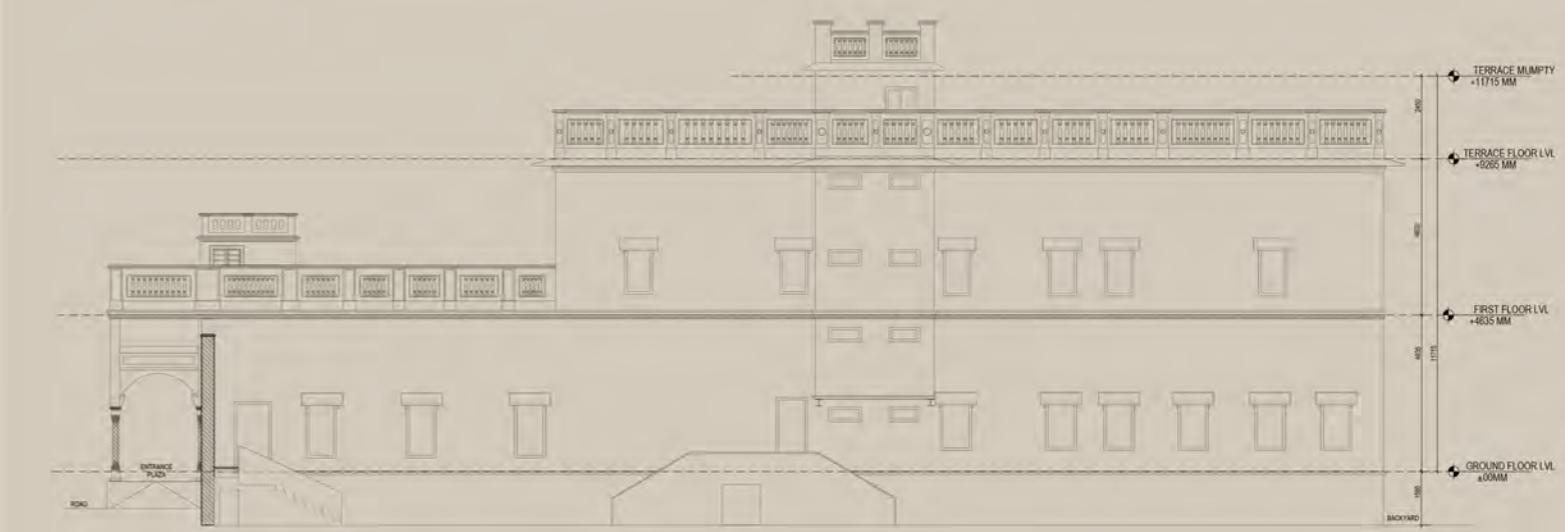
NEW BRICK MASONRY

DEMOLITION OF WALL



FRONT ELEVATION

Scale: 1:125



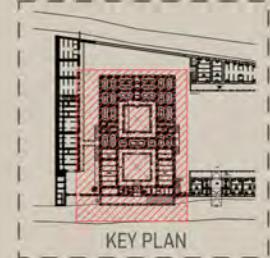
SERVICE BLOCK SIDE ELEVATION

Scale: 1:100



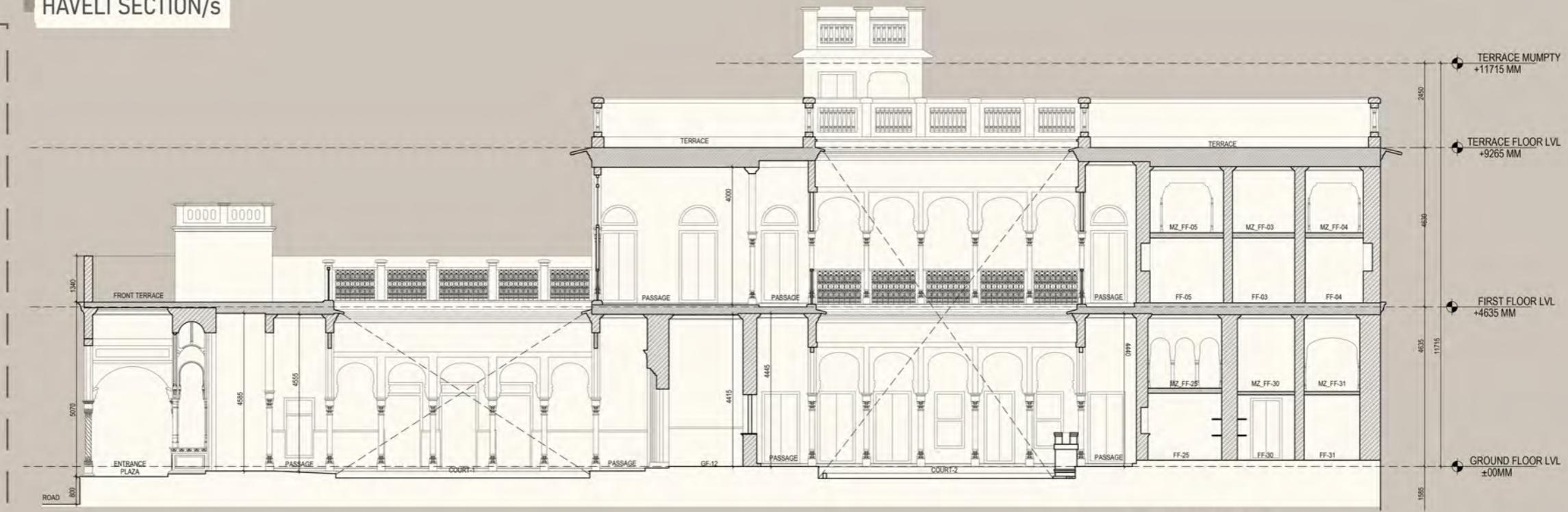
REAR SIDE ELEVATION

Scale: 1:100



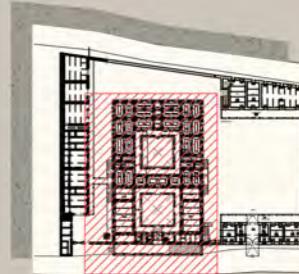
KEY PLAN

## HAVELI SECTION/s

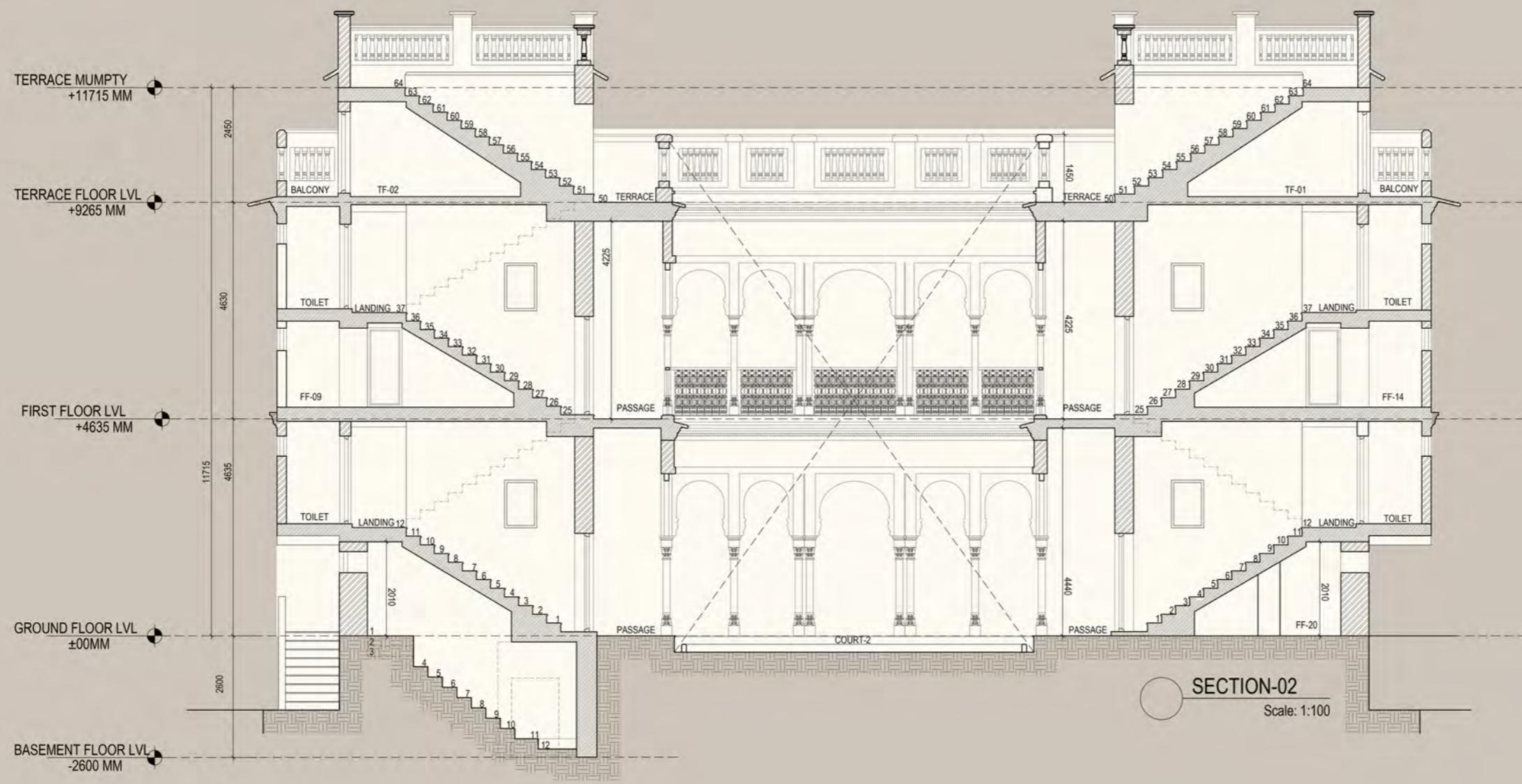


SECTION-0

Scale: 1:75



KEY  
PLAN



SECTION-0

Scale: 1:1



# MISCELLANEOUS SKETCHING



VICTORIA TOWER  
CROSS HATCHING (MICRON)



AUDITORIUM BUILDING  
CROSS HATCHING (MICRON)

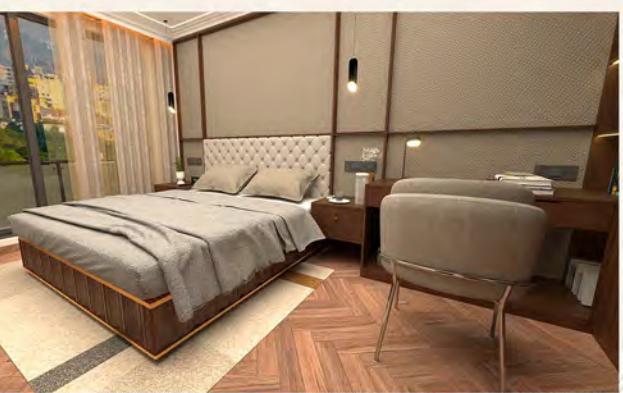


LANDSCAPE PAINTING  
WATER COLORS



LIVE SKETCHING  
BLEND + HATCH

## PHOTOGRAPHY



INTERIOR DESIGN  
ARABELLA APARTMENTS, JAIPUR





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