

HELPING HANDS PREFABRICATED COMMUNITY HEALTH CENTER



Mission Statement: The Community Healthcare center project in India is to Design a building that provide a refreshing environment with provision of Quality healthcare services. The major goal of the project is to eliminate health disparities in the community by educating rural population on medical healthcare needs in **Healthy and welcoming ambience**.

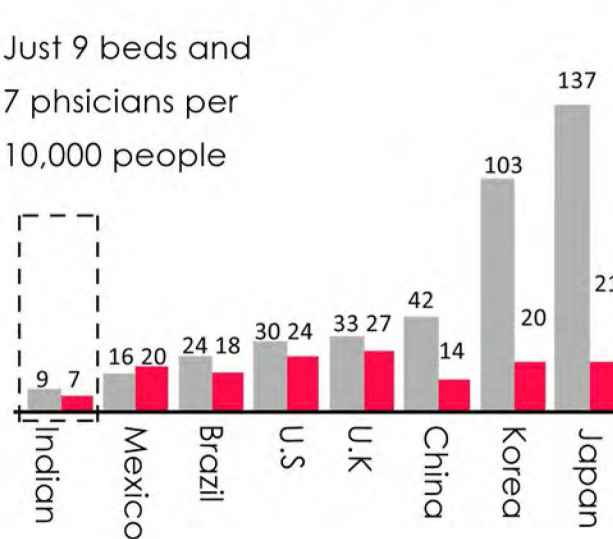
- Goals:**
- Welcoming ambience which invite people
 - Designing the building with respect to nature.
 - Providing Public spaces to conduct workshops on healthcare needs.
 - Developing Vernacular Architecture.
 - Implementing sustainable techniques to protect building from flooding and maintenance.
- Icons:** Welcoming (person with arms raised), Nature (trees), Public Spaces (people sitting), Sustainable (leaf).

Background of Indian Rural Health care System:

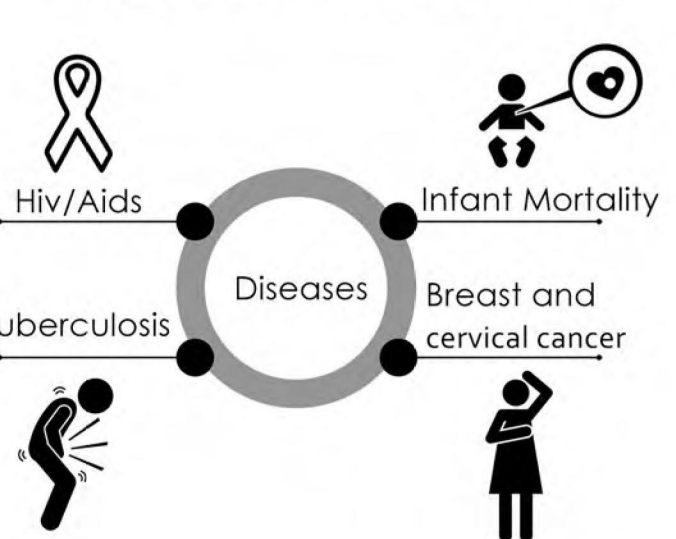
Indian Rural Health care system is divided into three tier system

- Sub Center**
Most peripheral contact point between Primary Health Center & Community Health Center
- Primary Health Center(PHC)**
A Referral Unit for 6 Sub Centers 4-6 bedded manned with a Medical Officer Incharge and 14 subordinate paramed ical staff
- Community Health Center(CHC)**
A 30 bedded Hospital/Referral Unit for 4 PHCs with Specialized services.

Indian Health care Statistics



Major Healthcare Issues



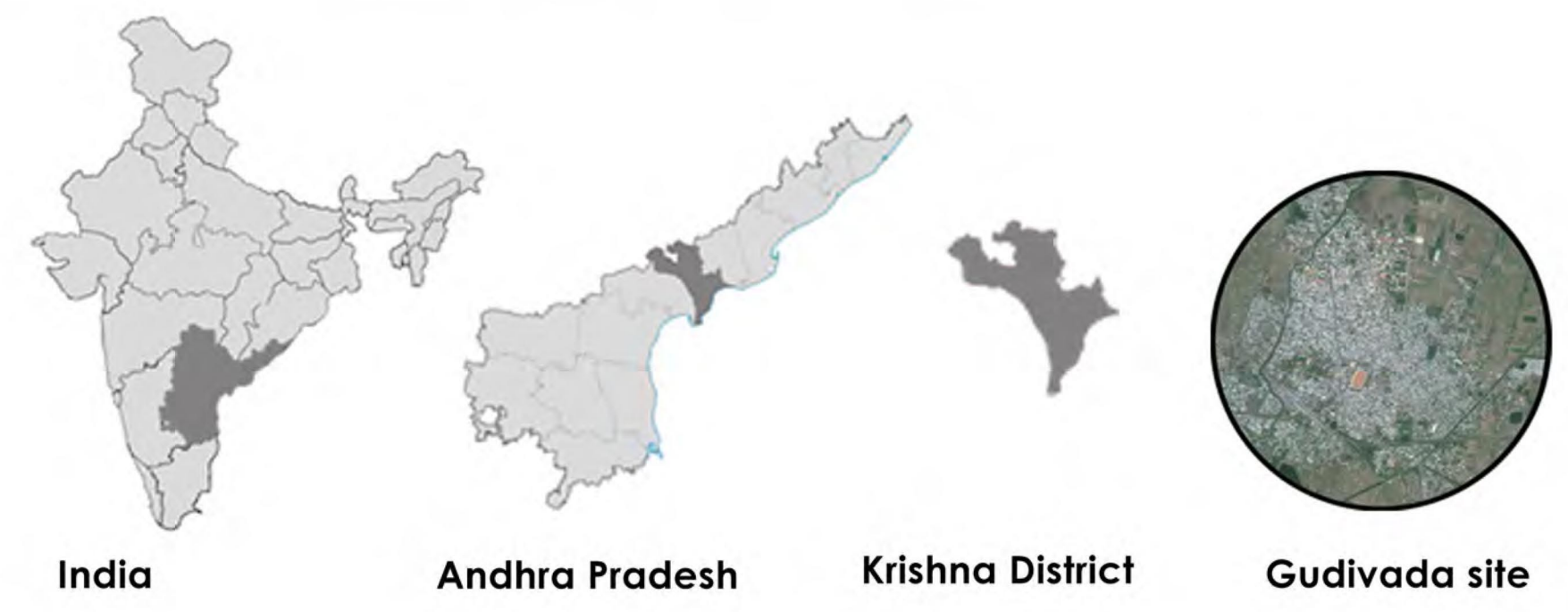
Existing Conditions of few Government hospitals in India



Site and Context:



- Residential Area
- Commercial Area
- Industrial Area
- Old Health Centre

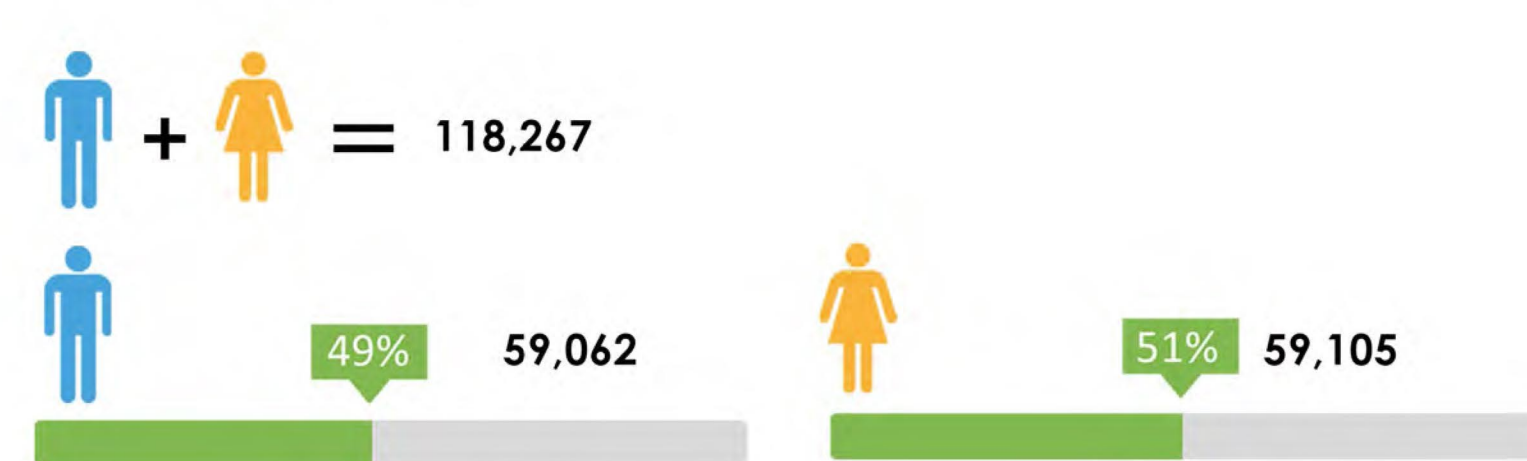


Site Background

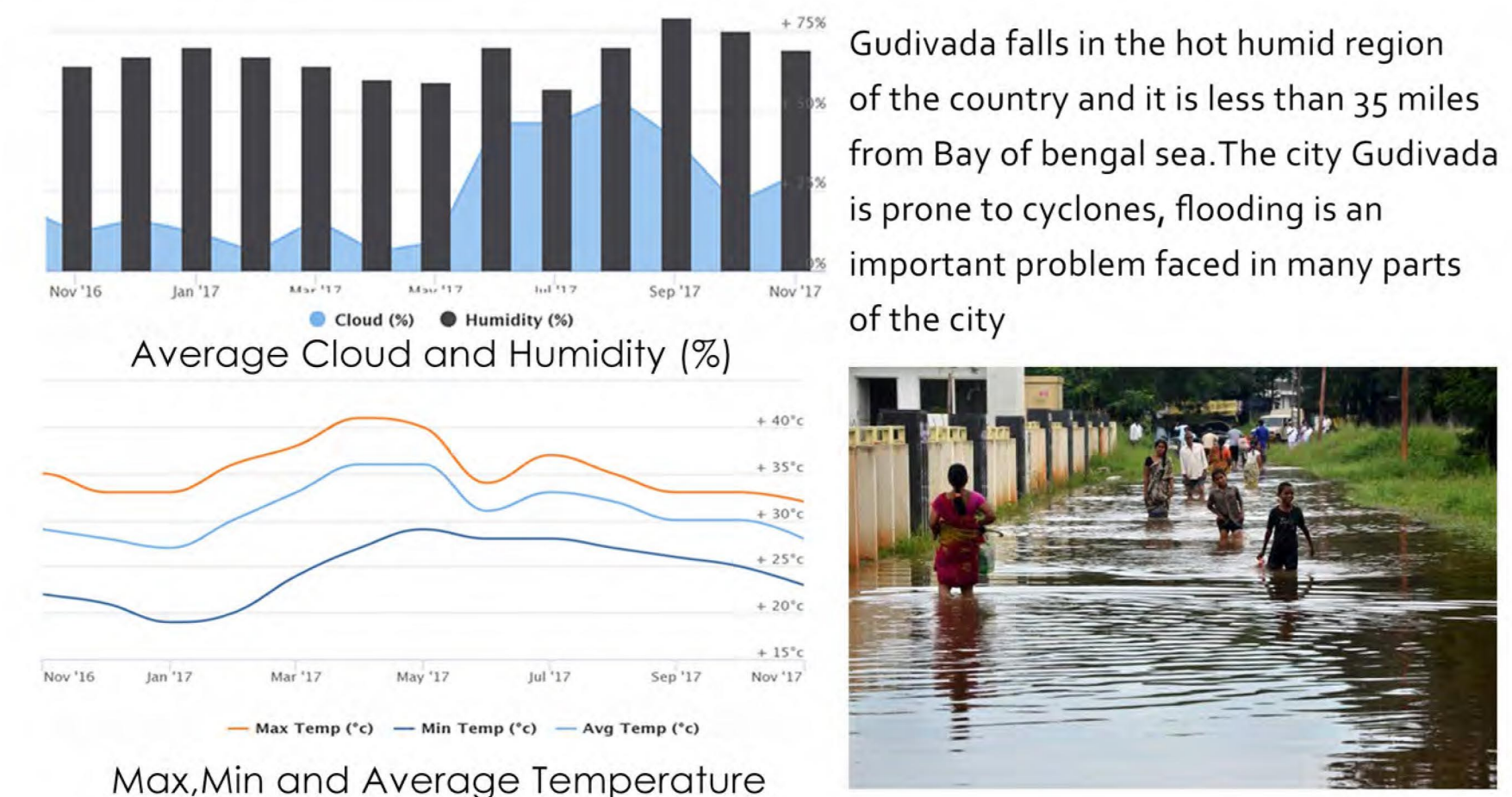
Gudivada Municipality is the 2nd largest in the Krishna district of Andhra Pradesh State. It is spread over an area of **12.67 sq.kms** with a population of **118,267** in 2011. It is one of the cities in the state to be a part of Andhra Pradesh State Capital Region.



Demographics



climate



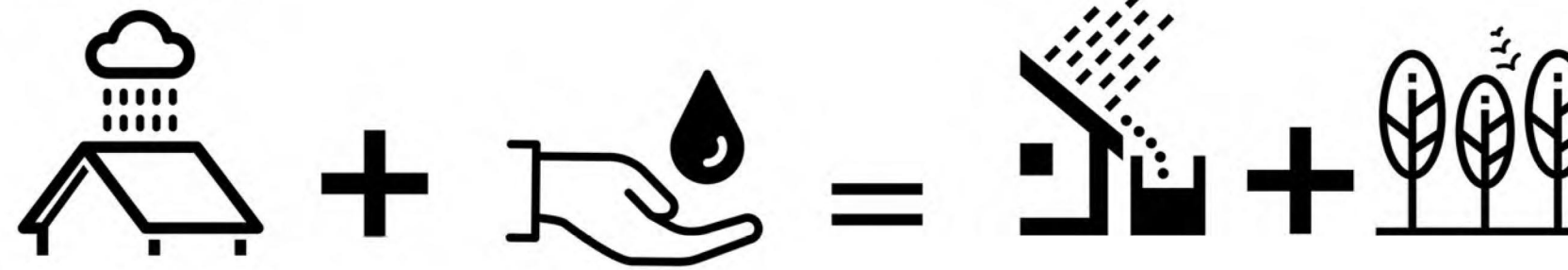
Project History:

To Develop rural healthcare Government of India has developed a plan to set up hospitals and health centers in several urban and regional centers around the country. This National Rural Health Mission is focused on strengthening health services at district and rural levels.

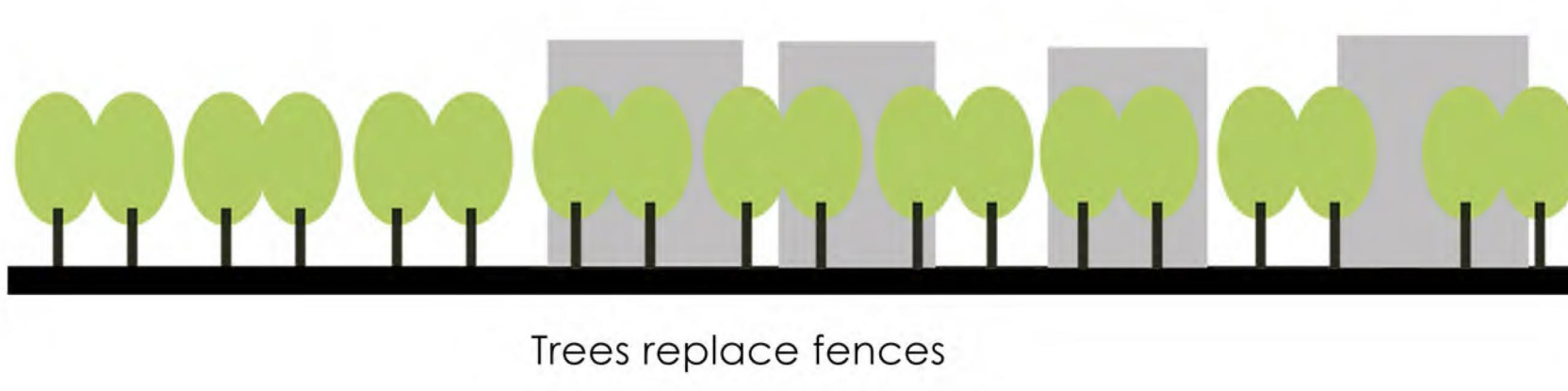
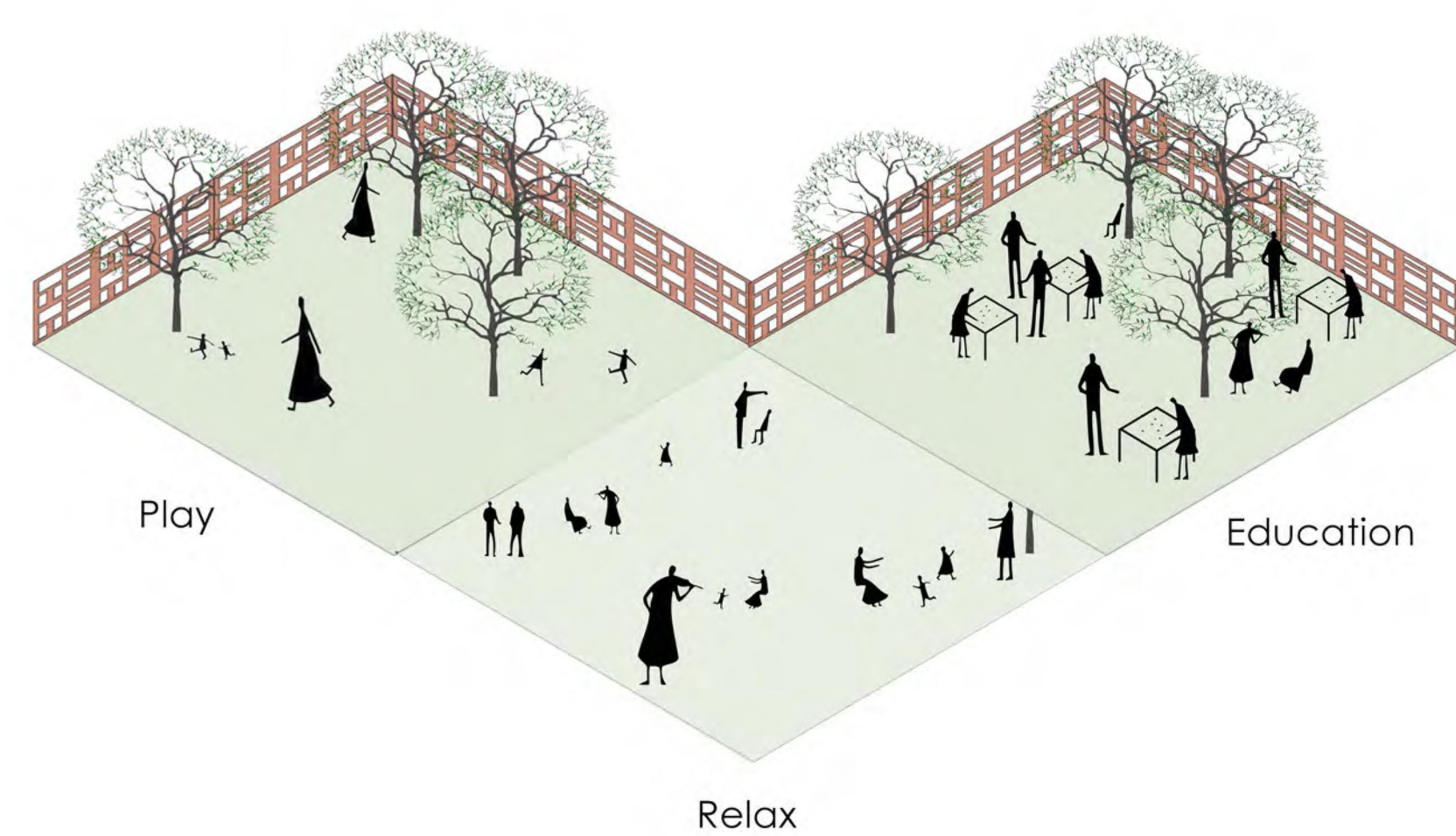
Design Problem:



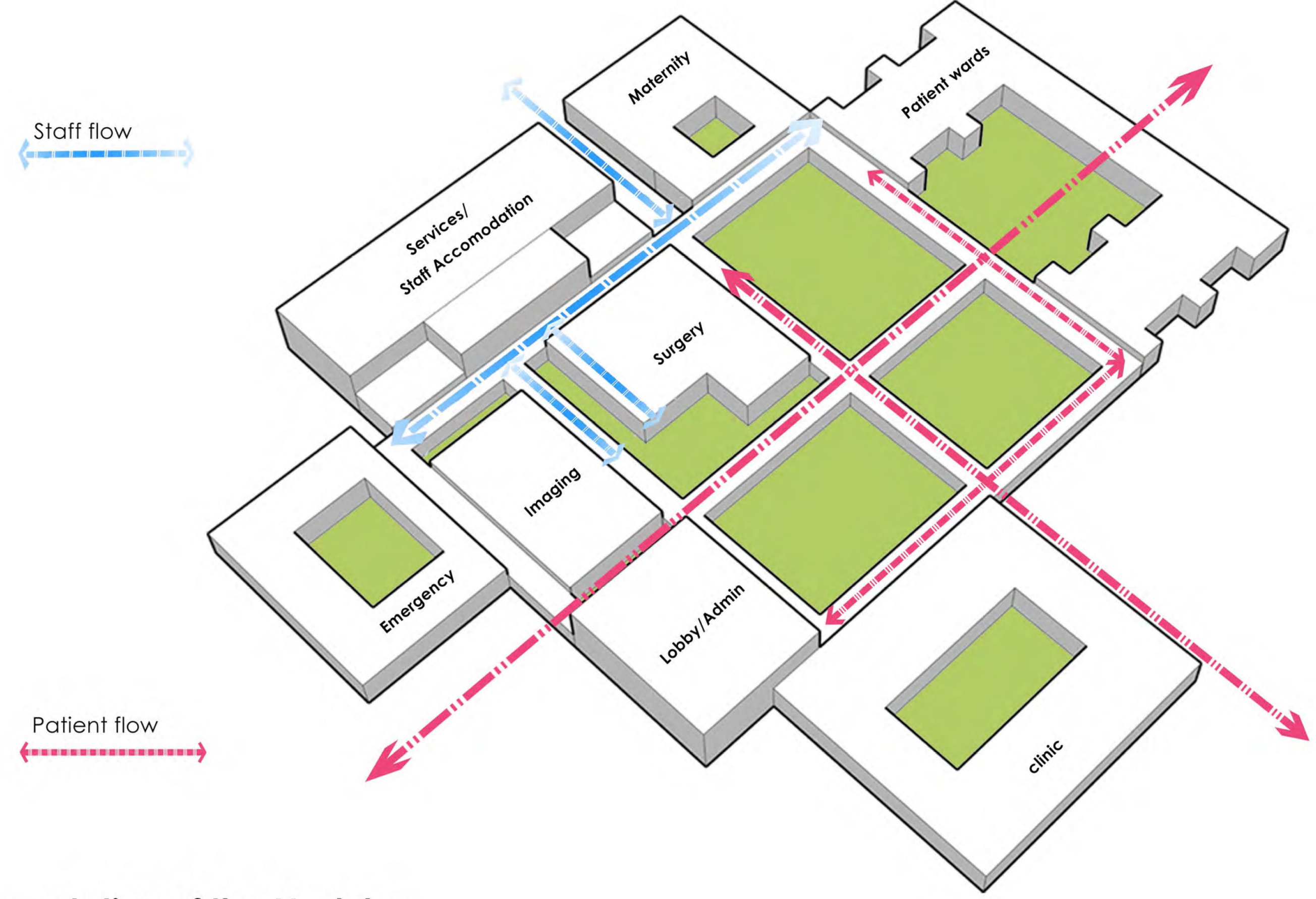
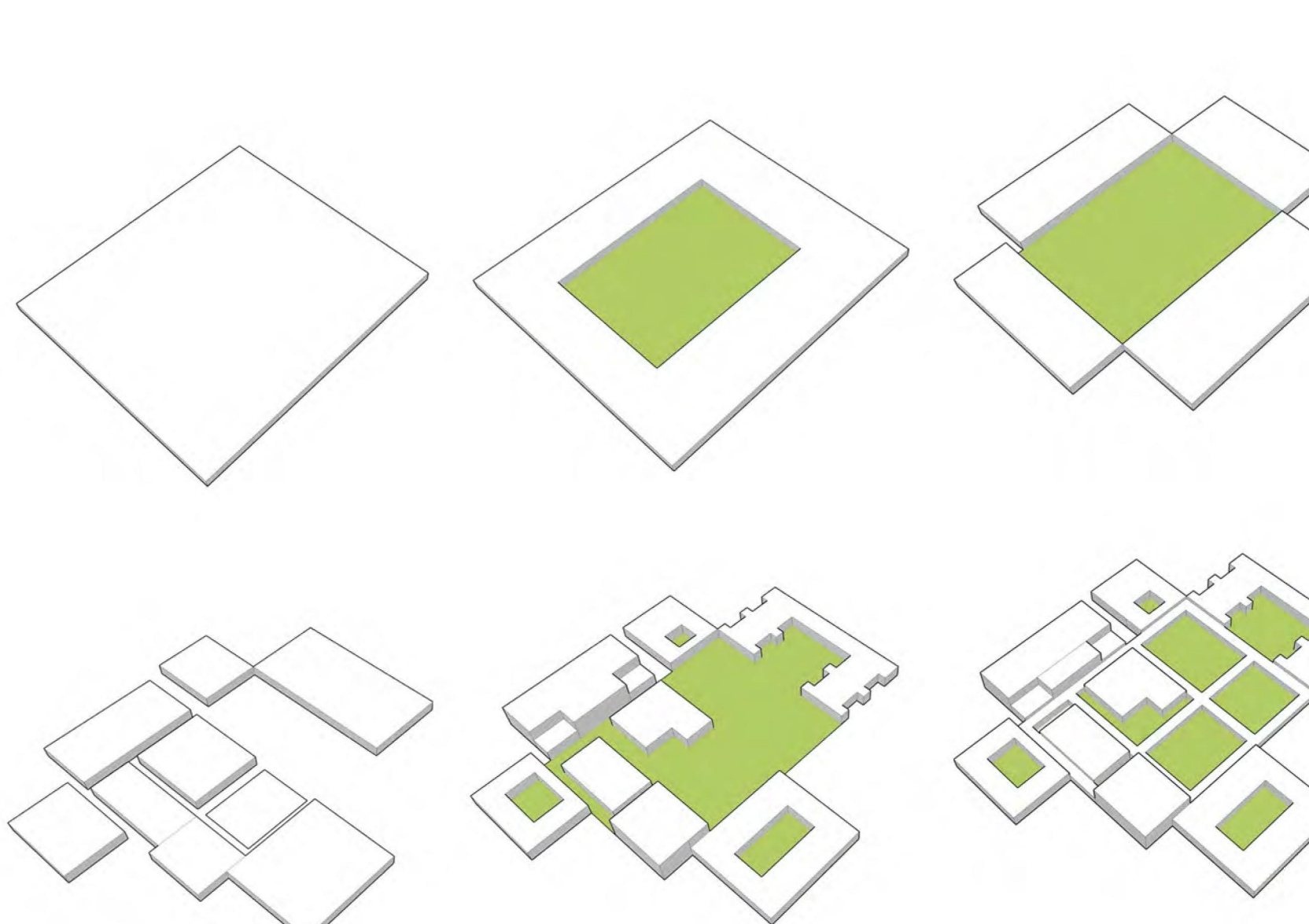
Strategy:



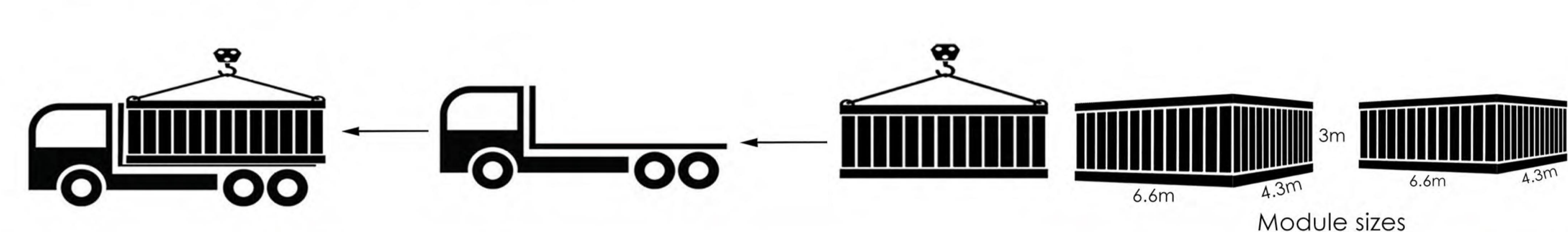
Concept:Blending **Nature** with Design to create spaces facilitating **Human Interaction**



Design Evolutions - Parti Diagrams



Transportation of the Modules



Elevation

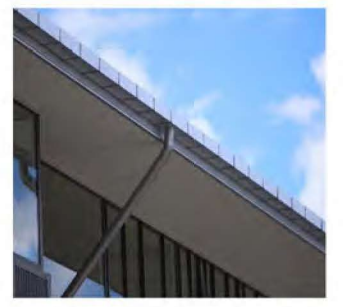


Site Plan



Solar Panels

Solar Panels were insatilled all over the roof to reduce Maintenance costs on electricity.



Gutter system.

Excess rain water is stored in harvesting pits in central courtyards, through gutter system.



Cement Board for Roof

24mm thick cement board is used for roofing along with water proof tar sheet, and box sections were used in between for support.



Box section framing

Dimensions of Box section is 150mm x 300mm and Beam depth is 300mm



Light Steel Structure



Cement Board for covering External Facade

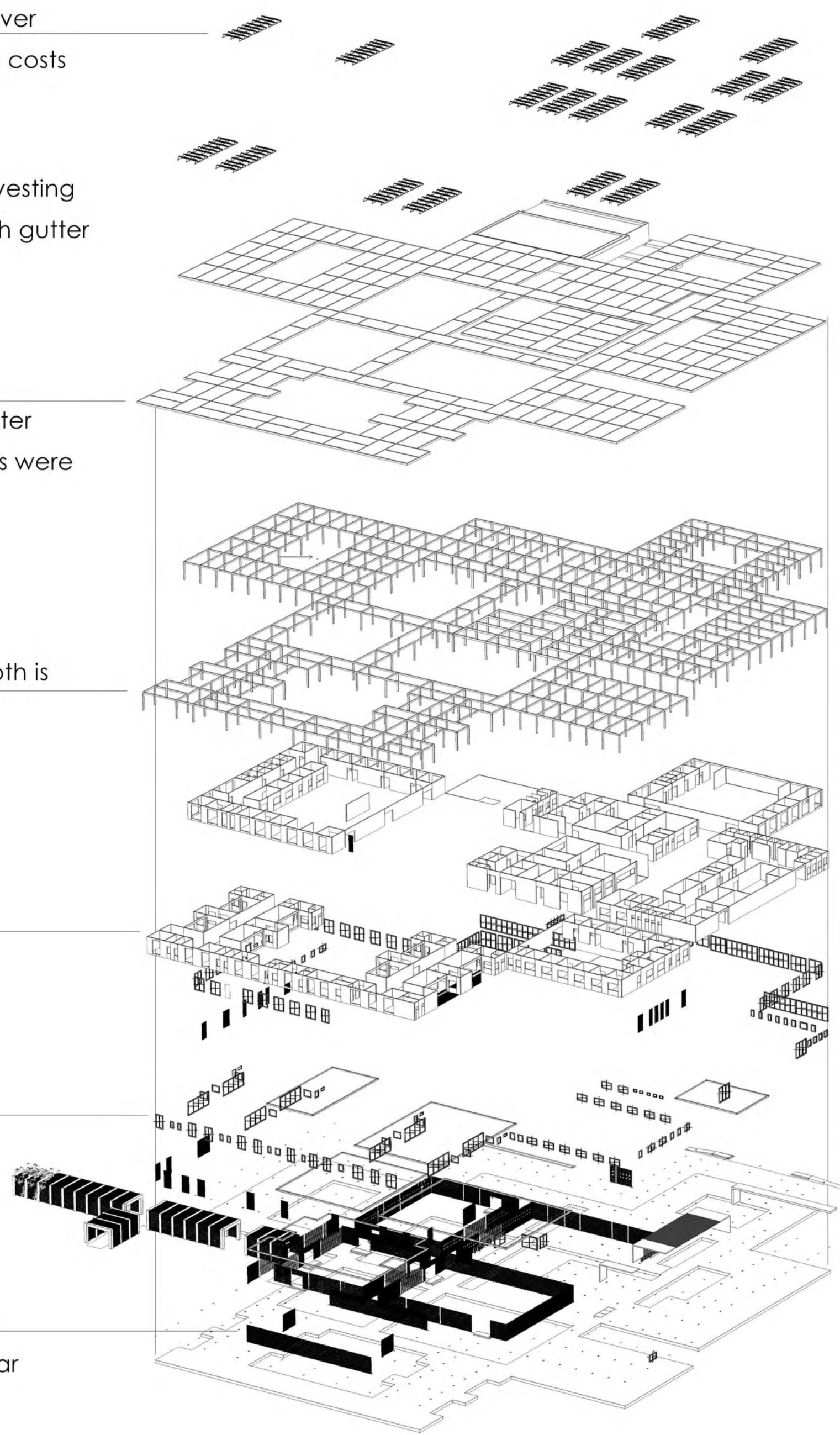


Aluminium Framed Window

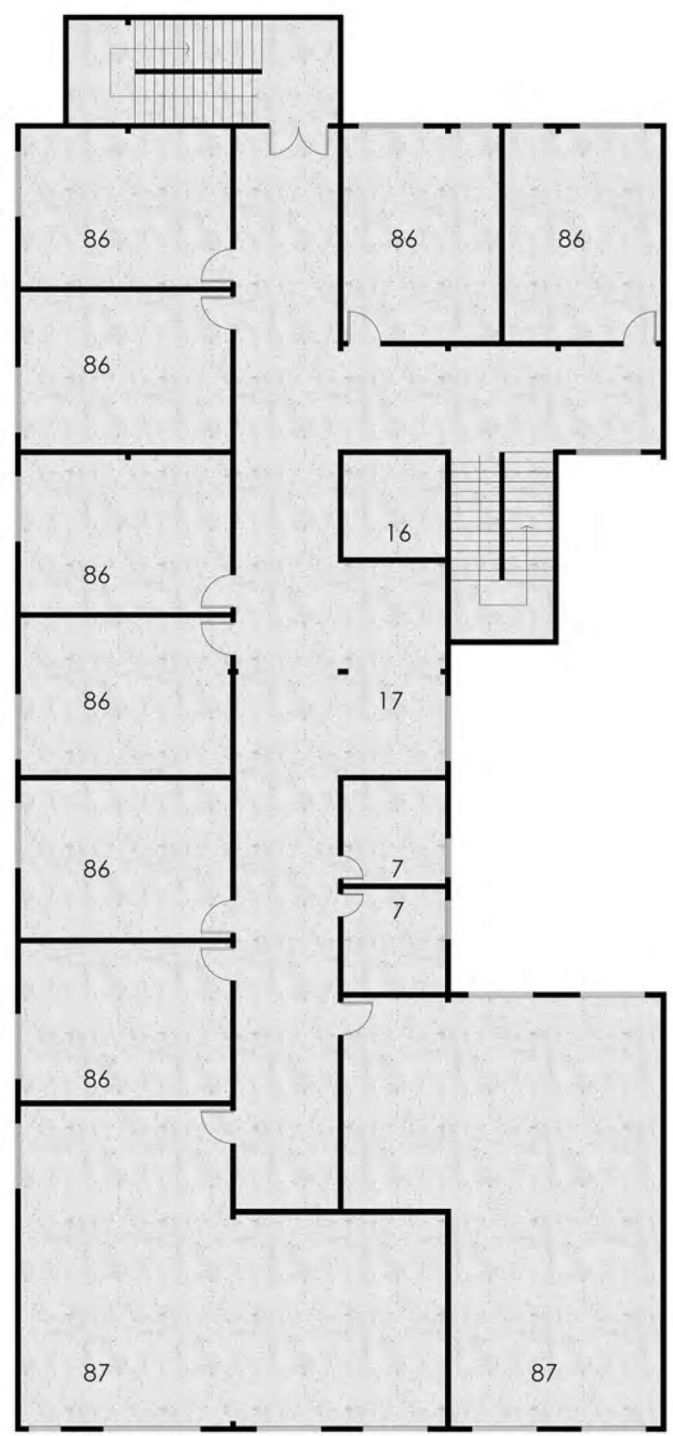


Terracota jali

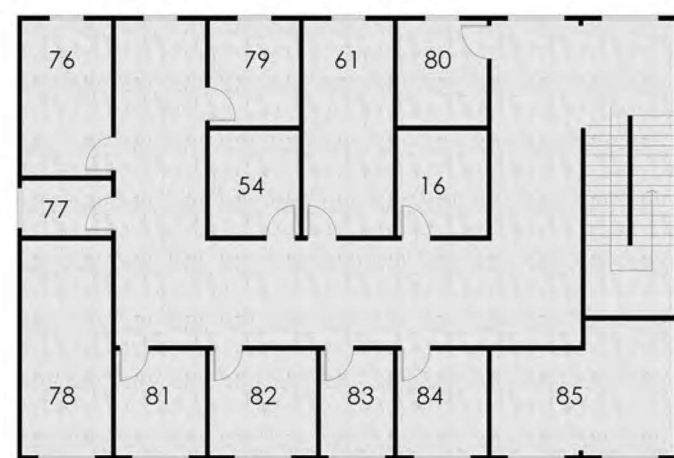
It is a traditional indian vernacular material available in India.



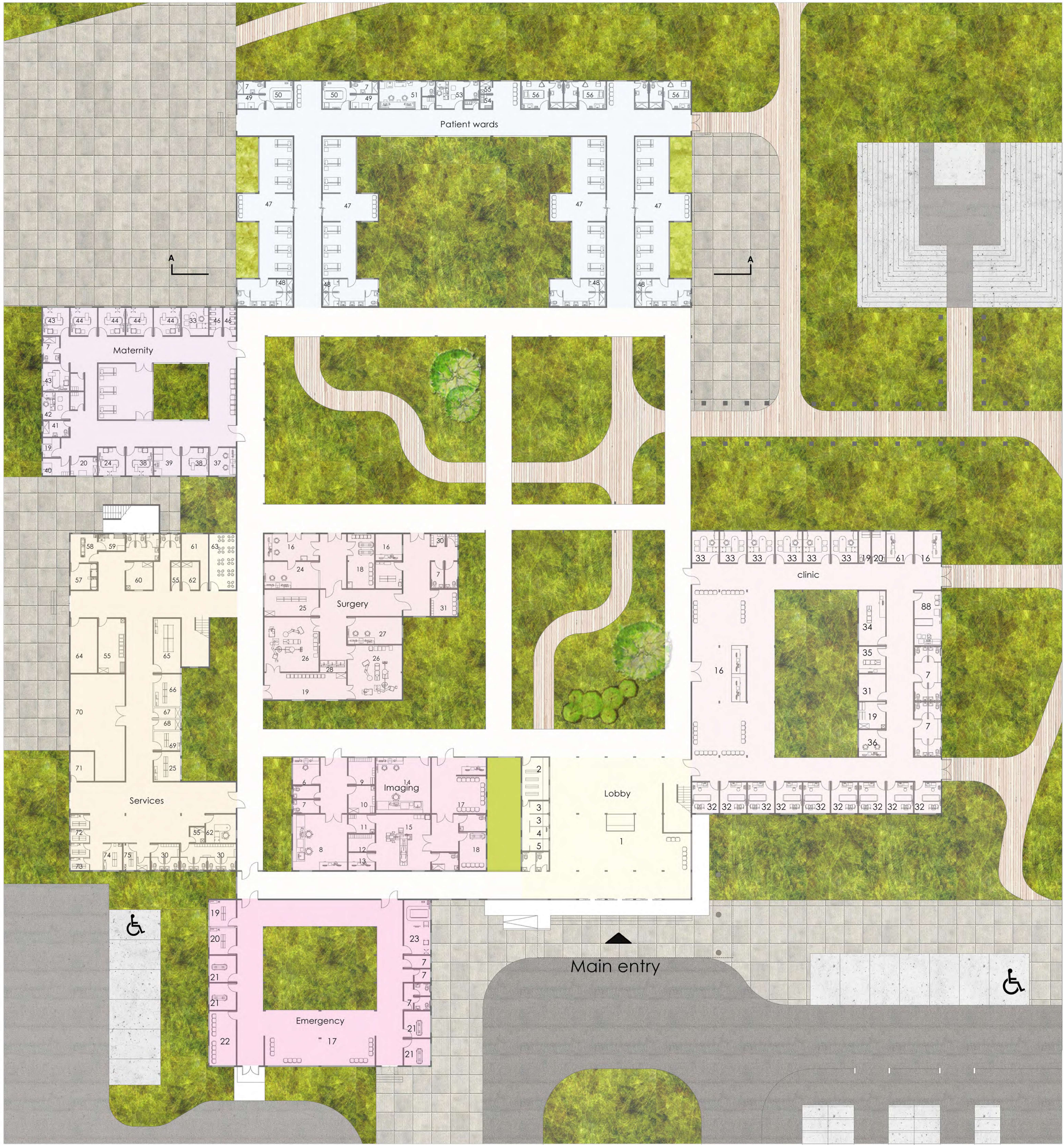
1. Lobby
2. Pharmacy
3. Prescription
4. Cashiers
5. Dispensing
6. Injection Room
7. Toilet
8. Laboratory
9. Cold Chain Room
10. Logistics
11. Staff Lounge
12. Dark Room
13. Viewing&Reading Collection
14. Specimen
15. General Radiography
16. Reception
17. Waiting Room
18. Patient Holding
19. Soiled Utility
20. Clean Utility
21. Stretcher Cubicle
22. Family Room
23. Casualty
24. Recovery
25. Sterile Storage
26. Operating Room
27. Anaesthesia
28. Scrub
29. Clean Supply
30. Staff locker
31. Staff Lounge
32. Exam Room
33. Consult Room
34. AYUSH Room
35. Ultrasound
36. Refraction
37. Triage
38. Resuscitation
39. Sub-Sterile
40. Formula Preparation
41. Staff Toilet
42. Office Chief Nurse
43. Labour Room
44. Intensive Care
45. Intensive care Isolation
46. Baby Nursery
47. 6 bed ward
48. Shower space
49. Vestibule Sink
50. Isolation Room
51. Nursing Station
52. Medication
53. Doctor's office
54. Storage
55. Housekeeping
56. Private Room
57. Sanitizing
58. Meal Preparation
59. Freezer Room
60. Tray Assembly
61. Office
62. Dry Storage
63. Catteria
64. Biomedical Engineer & Electronics
65. Bulk Stores
66. Medical Supplies
67. Biomedical Waste Holding
68. Flammable Stores
69. Equipment Storage
70. Central Sterilization
71. Receiving Docks
72. Soiled Linen
73. Drying area
74. Clean Linen
75. Assembly&Distribution
76. Public Health Supervisor
77. Secretary
78. Medical Superintendent
79. Control Room
80. Sewer Room
81. Photocopy Room
82. Public Health Nursery
83. Record
84. Record Control
85. Microfilming
86. Staff Accommodation
87. Staff 6 bedrooms
88. Treatment



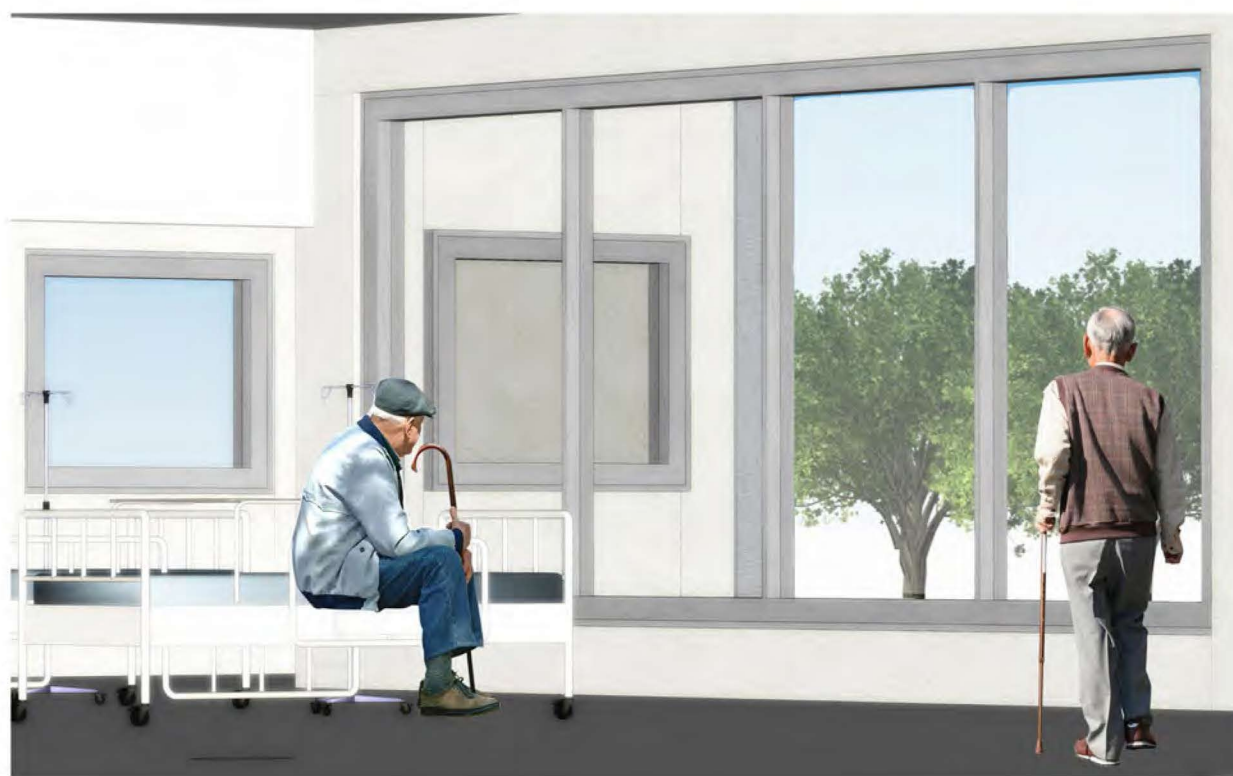
Staff Accommodation



Administration



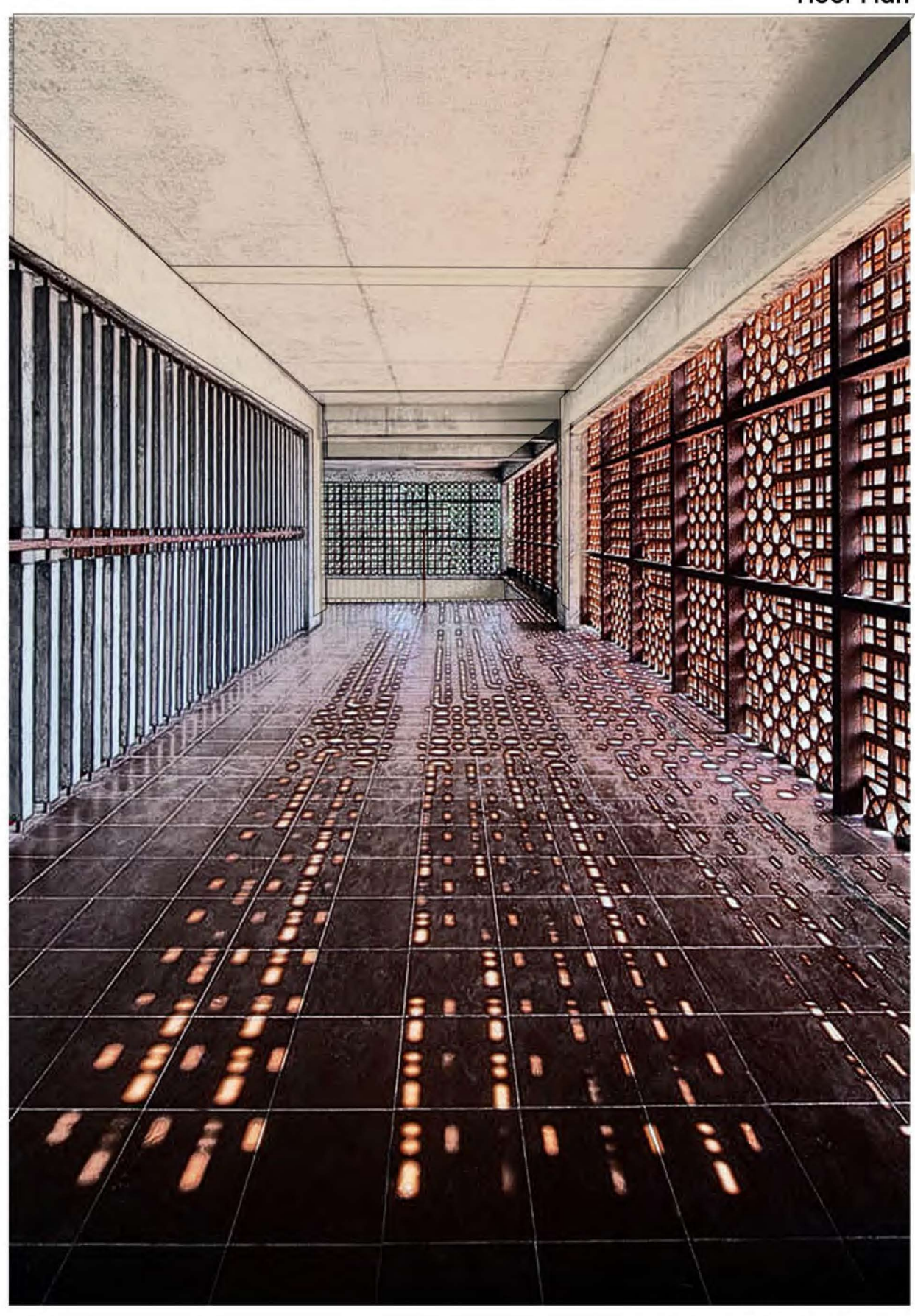
Floor Plan



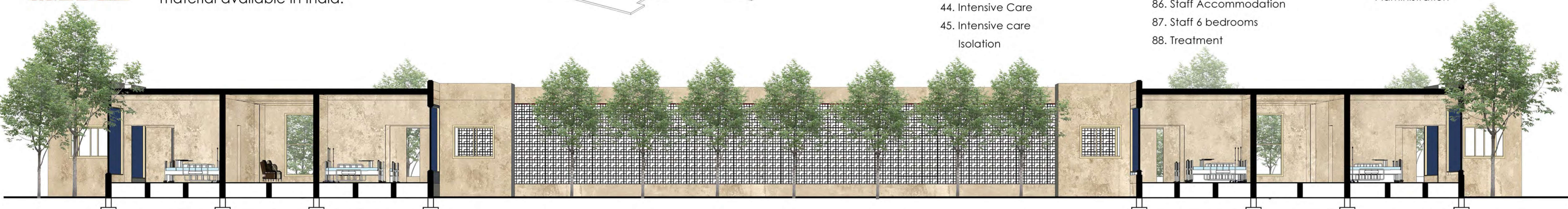
Patient Ward



Walking Entrance



Corridor View



A-A Section