

2nd seminar:

The Street

SEMINAR BY: SAKAR YOUSIF ABDULLAH 2022-2023

HOUSING, MATHURA, INDIA

Architects: Sanjay Puri Architects

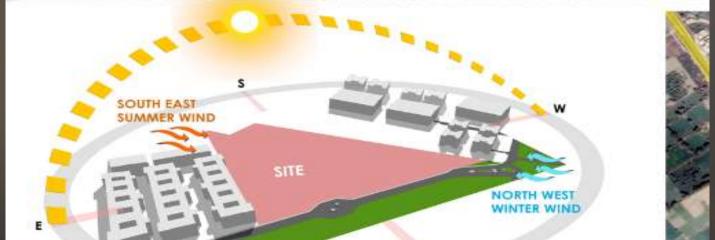
Area: 211000 ft²

Year: 2017

▶ This Modern Student Housing Complex Embodies an Ancient Indian

City's Past



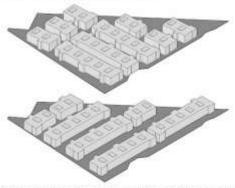




The concept

- ▶ Taking a cue from the **old city streets** of Mathura city in India where this project is located, this 800 room students' hostel creates **organic spaces**.
- Sanjay Puri explains, "Most Indian cities have an old area that was the original city,"
- "These parts of the city generally grew in an organic manner without geometric layouts. When one walks through such streets, there are interesting spaces at each corner, the focal point constantly changes, and these aspects allow one to experience different perceptions while moving through as opposed to grid planning, [which] forms most of the newer parts of a city. The organic nature of these streets in any old city is inspiring due to this nature, of not knowing what one will experience or see next, of each part getting a unique identity."

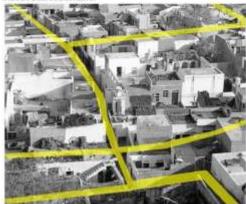
CONCEPT & DESIGN PROCESS



POSSIBLE LAYOUTS (BASED UPON THE EARLIER EXISTING HOSTEL BUILDINGS).

DEVIATING FROM THE GENERIC EXISTING LAYOUTS ON EITHER SIDE WHICH CREATE OVERLOOKING, DO NOT RESPOND TO THE SUN DIRECTION & DO NOT CREATE OPEN SPACES AND ARE REPETATIVE IN CHARACTER

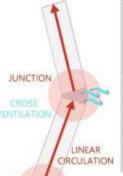
INDIAN ORGANIC STREETS





LINEAR LOW-RISE HOSTELS TWIST GRADUALLY ACROSS A WEDGE SHAPED SITE CREATING AN ORGANIC LAYOUT OF BUILT FORM AND LANDSCAPED SPACES. IN RESPONSE TO THE HOT ARID CLIMATE OF THE LOCATION WITH TEMPERATURES IN EXCESS OF 35 DEGREES CELCIUS FOR 8 MONTHS OF THE YEAR, THE BUILDINGS CREATE A LAYOUT WITH NORTH FACING GARDENS. IN ADDITION TO THAT, EACH OF THE 800 HOSTEL ROOMS HAVE ANGLED WINDOWS FACING THE NORTH. THE TWO LARGE CAFETARIAS WITH GAMES ROOMS FORM THE FOCAL POINTS WITHIN THE LAYOUT.





JUNCTION

THE JUNCTION ACTS LIKE SERVICE CORE AREA

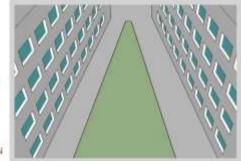
FOR THE BUILDING &

CREATES A CROSS

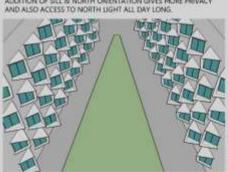
VENTILATED SPACE FOR

RECREATION

STANDARD WINDOW PLACEMENT GIVING NO PRIVACY.



ADDITION OF SILL & NORTH ORIENTATION GIVES MORE PRIVACY





LEGEND: 1.ENTRANCE FOR HOSTEL WINGS: 2.WAITING LOBBY: 3.STAIRCASE: 4.DUCT; 5.HOSTEL ROOMS: 6.TOILET 7.CORRIDOR

TYPICAL NORTH FACING WINDOWS







The Street | The Concept



The site is located in Medium, the layout of Mathura city like most old inclian cities is eigente with an interesting character.

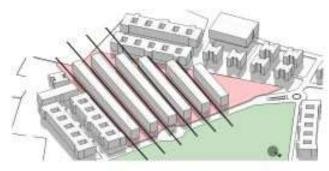
Site Area: 6Acres Built tip Area: 2,11,000.5q.ft,







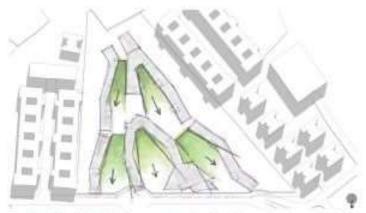
The layout evakes the organic nature of the old Indian cities with garden spaces increasing and decreasing in width. The nostel circulation spines being angled along thier length.



The site is wedge shaped with buildings of repetitive character on both sides. The client requirements necessitated a large floor plate which could be done with a repetative character using typical hoster norm blocks.



Taking a cue from the old city streets of mathura, linear low-file hostels were twisted gradually across the site creating an **organic layout of built form and landscaped spaces**. This creaties individual spaces within a discernible identity in each part of this layout.

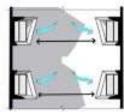


The arientation of all the buildings are done with a view of generating large north facing garden areas overlooking a vast playground lowards the north.

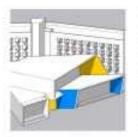


Each haste room is punctuated with a wedge shaped window oriented towards the north and the playground providing privacy and view.

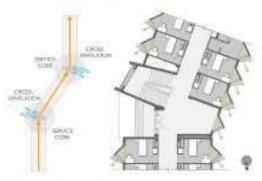




Varied shapes create identity to each area within , while the colours further accentuate each space. The two large cateforics with games rooms farm the focal paints within the layout.

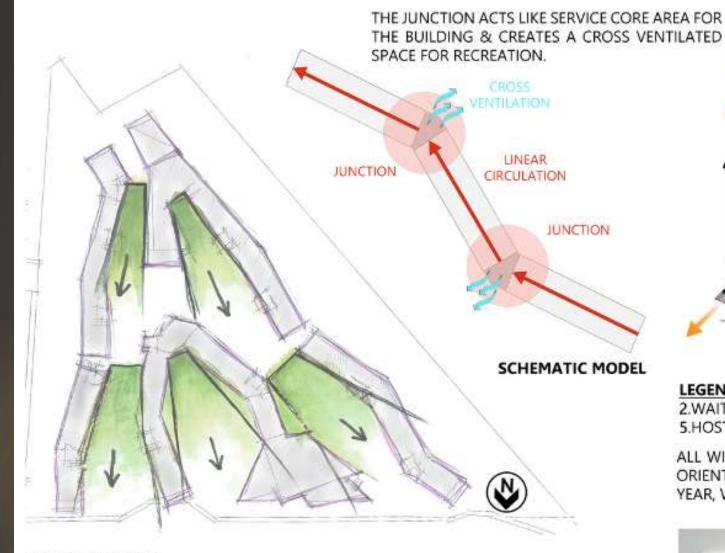


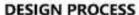
The buildings by their orientation lowards the north, facilitates natural verification in all areas and window orientation creasts a sustainable response reducing heat gain and increasing the energy efficiency, reducing the energy efficiency.



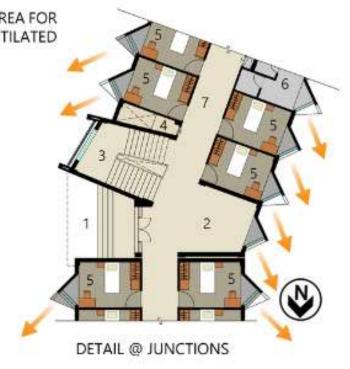
Schematic diagram of freed circulation

Plan of the hostel blacks





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LEGEND: 1.ENTRANCE FOR HOSTEL WINGS; 2.WAITING LOBBY; 3.STAIRCASE; 4.DUCT; 5.HOSTEL ROOMS; 6.TOILET 7.CORRIDOR

ALL WINDOWS IN EACH BUILDING ARE NORTH ORIENTED. 35°C AVG TEMP FOR 8MONTHS IN A YEAR, WITH SUN IN THE SOUTH



TYPICAL NORTH FACING WINDOWS

Designed in 4 level high, 5 linear blocks, the built spaces snake across a wedge shaped site twisting and turning along their length. Sitting adjacent to repetitive hostel blocks on the east and west these new hostels within a large university campus create individual spaces within a discernible identity in each part of the layout.



- Each hostel room has ventilation openings in the internal corridor facilitating cross ventilation. The linear buildings create small break out spaces at each bending point allowing natural light into the internal circulation spaces.
- These factors create an energy efficient building minimizing heat gain in response to the climate which has average temperature in excess of 30° c for 8 months of the year when the sun is in the Southern Hemisphere. During the winter months when the sun is in the Northern Hemisphere, direct sunlight is facilitated to prevent the rooms from becoming cold.





▶ The organic layout of the buildings characterizes each space within the site. Color accentuates different blocks and facilitates within. Each block is differently colored along with the internal face of the bay windows of the hostel in bright colors to create an identity.

Rain water harvesting and water recycling and usage of solar panels additionally make the project more energy efficient along with the orientation and facilitation of natural

ventilation.





▶ The Street is contextual to the climate and the orientation of the site thus creating varied experiences and changing perceptions of space in each part of the 6acre site.













TERRACE TERRACE FLOOR LEVEL +13,250m LVL ROOM CORRIDOR ROOM THIRD FLOOR LEVEL +10.20m LVL ROOM ROOM SECOND FLOOR LEVEL +7.15m LVL ROOM CORRIDOR ROOM FIRST FLOOR LEVEL +4,10m LVL ROOM CORRIDOR ROOM PLINTH LEVEL +1.05m LVL +0.45m LVL

TYPICAL HOSTEL WING SECTION

TYPICAL FLOOR PLAN

LEGEND: 1.HOSTEL WING-01 ENTRY; 2.HOSTEL WING-02 ENTRY; 3.DORMITORY ENTRY; 4.CAFETERIA & GAMES ROOMS; 5.HOSTEL WING-05 ENTRY; 6.HOSTEL WING-04 ENTRY; 7.HOSTEL WING-03 ENTRY; 9.EARTH BERM; 10.GREEN OPEN SPACE WITH 3.6M WIDE PATHWAY





SITE ELEVATION



LONGITUDINAL SITE SECTION



LATITUDINAL SITE SECTION

