

GREEN CONSTRUCTION+DESIGN

The Complete Guide to Sustainable Architecture and Design

January 2017



- 30 Manipal University Jaipur
- 36 Mathematics Winton Gallery, London Science Museum, London
- 42 House For Trees, Tan Binh District, Ho Chi Minh City, Vietnam
- 46 Bakul Doshi, Residential Apartment, Andheri

Manipal University Jaipur

The university is located near Dehmi Kalan village, Tehsil Sanganer, Jaipur district. The land parcel for the entire University development project is approx 156 acres and the plot is naturally divided by the NH8 Express Highway (Jaipur-Ajmer Highway) into 3 parcels. This division resulted in the separation of the Academic and Residential areas which are envisioned to be connected by a pedestrian underpass allowing the seamless movement of students on foot or bicycle from their rooms to the classroom.

The sites are further divided into two parts due to the presence of a High Tension Electrical Line which has been promised to be made underground by the

Rajasthan Government. Up to such time the HT Line creates a natural divide which we have embraced as a central axis that serves as a major connection as well as provides for open spaces to the campus. On the University side, The New Academic Block (NAB) is placed along this central axis.

The Design appears to capture a glimpse of the bygone era by incorporating the features such as the Rajasthan Courtyard, bright coloured facades, double wall construction, jali work, etc. however each of the above is provided with the very specific purpose of making a world class Platinum rated campus & building.





The colour of the buildings resonate the colour of the sand, the courtyard helps shading; the double walls, chajjas & Jali work differ for each of the North, South, East & West facades designed by carrying out detailed studies of sun path, wind rose, etc.

The Residential side of the campus sits on a site of 56 acres and it comprises of approx 3000 Student Rooms; an 1800 capacity triple Cover Food court; Faculty

Housing; Security Block; Industrial Laundry; High Side Services and several areas of Recreation. As Per the demands of the University and Students' Parents; The Girls and Boys hostels are separated; by creating a Grand Avenue like the Las Ramblas of Barcelona. The driving idea behind the design was to create a thriving community based on the concept of "The Medieval Maze" consisting of shaded streets and corridors, narrow deep & shaded courtyards and pergolas for





shaded circulation. Thus the design has manifested itself with interlocking streets and courts, narrow skewed views, compact blocks, compressed movements.

The entire campus reverberates the strong quality of a holistic and integrated community through its

architecture. The Master Plan; Ground level experience and Student feedback are testament to this. At the start of the project the land was filled with "kikad" trees which were removed & deposited with the Forest Department. The campus is now landscaped with several hardy species like Hardy plants: White and pink Bougainville, Euphobia milli red and yellow Alamonda.



Following are the awards received for Manipal University Jaipur:

- Manipal University Jaipur campus awarded LEED INDIAN- PLATINUM rating for Energy Conservation and Environment Design 2016.
- Manipal University Jaipur have been awarded LEED Platinum Certificate & Green rating for Integrated Habitat Assessment (GRIHA) award for water management.
- Manipal University Jaipur has been awarded as First Smart Campus for being pioneers and architects of India's digital transformation, by NDTV and CISCO.
- Manipal University Jaipur has been awarded the National Education Excellence ASSOCHAM Award 2015 under the category 'Best University Campus'
- Indo Global Architecture Education Excellence Award, Dec 2015
- The MUJ Academic and Administrative buildings have been awarded 5-Star ratings by GRIHA (Green Rating for Integrated Habitat Assessment) making us the 'First University in the country to receive this honour'
- The Academic and Administrative buildings at Manipal University Jaipur have been awarded LEED Platinum Certificate & Green rating for Integrated Habitat Assessment (GRIHA) award for water management.

Fact File

SITE AREA : 156 Acres
 DESIGN BRIEF: New Academic Block, Boys Hostel, Girls Hostel, Food Court, Facility Block.

COMPLETED YEAR : 2015 (NAB Phase 1)

SCOPE of WORK carried out by M/s. Architect Hafeez Contractor included Master Planning, Architecture, Interior Design and co-ordination between Structural, Building Services, Landscape and overall design services for all trades for the project along with periodic supervision for all above



PROJECT TEAM:

Architect : Architect Hafeez Contractor:
 Mr. Karl Wadia - Senior Associate
 Ms. Apoorva Sharma - Associate
 Mr. Shital Powar - Senior Architect/Project Co-ordinator