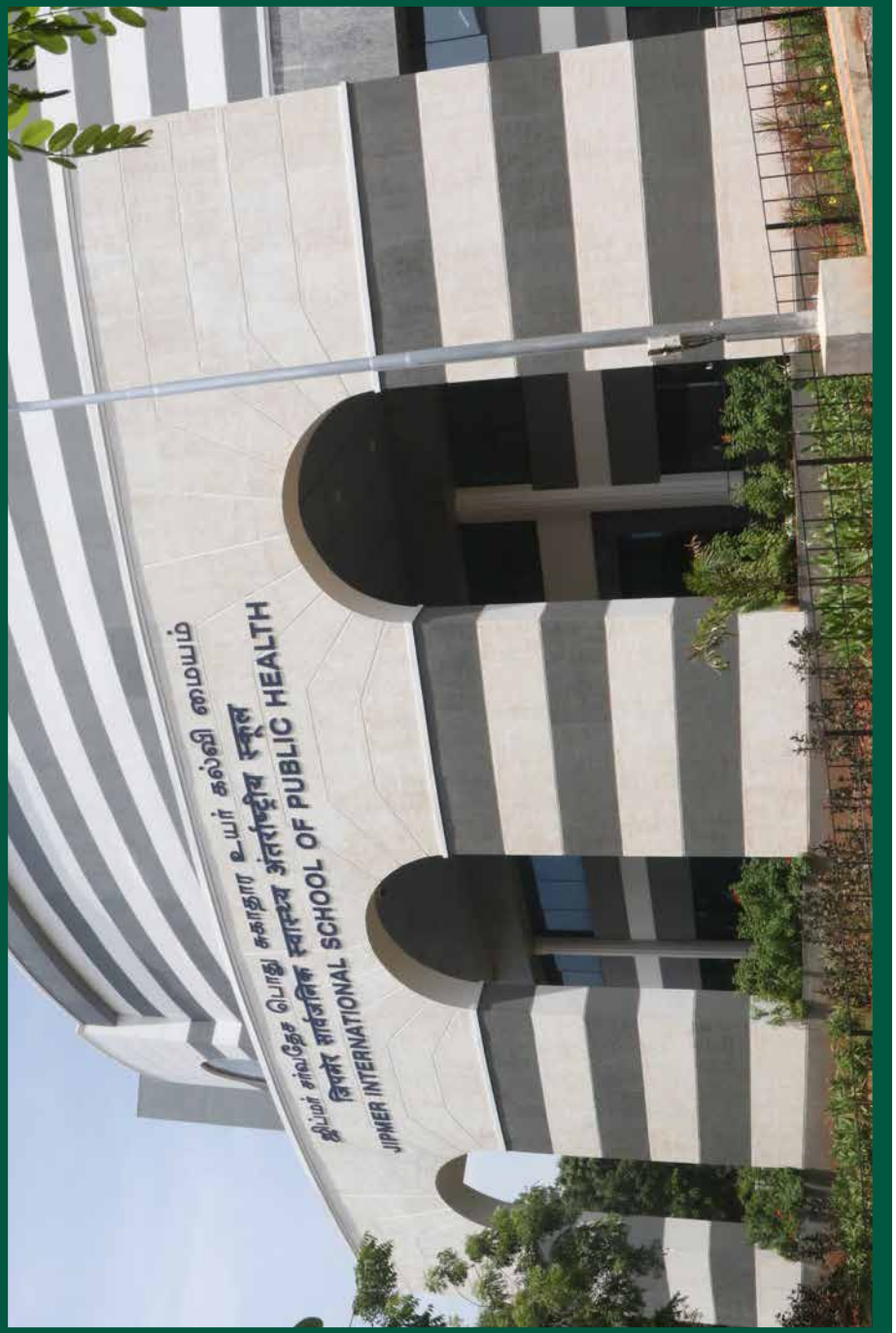

JIPMER International School of Public Health (JISPH)

Location	:	Puducherry
Site Area	:	12,826 m^2
Built-up Area	:	11,934 m^2
Energy Consumption Reduction	:	71% reduction in Energy Consumption compared to GRIHA benchmark
EPI	:	47.75 kWh/ m^2/year
GRIHA Provisional Rating	:	4 Star Rating (Version: 3.1)
Year of Completion	:	2019

The following strategies were adopted to reduce the building impact on the natural environment:

Sustainable Site Planning:

- Out of 69 existing mature trees, 26 trees were cut and 550 new trees were planted.
- Air pollution control measures such as site barricading, covering of fine aggregates with fabric and other appropriate measures were strictly adhered to during construction.
- The shadow from the building does not obstruct the solar access to neighboring buildings.
- Project has been designed such that all the transportation and service corridors have been minimized. Utility corridors have been aggregated and consolidated to minimize site disruption.

Water Management:

- Reduction of 72.19% from the GRIHA base case has been demonstrated in the building water demand by installing water efficient fixtures.
- Reduction of 52.5% from the GRIHA base case has been demonstrated in the landscape water demand.
- Gunny bags was used for curing of columns and ponding technique was used for curing of slabs.

Energy Optimization and Occupant Comfort:

- For achieving visual comfort:
  - » 28% of the total living area is day-lit and meets the daylight factor as prescribed by NBC 2005.
  - » Digital timer control has been provided for 100% of the outdoor lighting system.
- For achieving thermal comfort:
  - » EPI reduction of 71% from the GRIHA base case has been demonstrated through the integration of high performance systems.
  - » Window to wall ratio has been limited to 14.1% in the project.

Renewable Energy Technology installed on site:

- Rooftop solar photovoltaic system of capacity 5 kWp has been installed on-site for complying with the mandatory clause.

Sustainable Building Materials:

- Pozzolana Portland cement with 30% fly-ash content by weight has been used in plaster and masonry mortar.
- Ceramic tiles with recycled content, vitrified tiles,granite and IPS flooring have been used as a flooring material in the project.
- 75% of the products used for doors, windows and frames are low-energy.
- 100% of paints, adhesives and sealants are low VOC.

Waste Management:

- Multi-colored bins have been provided at every floor to collect and segregate waste at source.
- Segregated waste is transported to resource recovery park within the JIPMER campus from where non-biodegradable waste is sent to waste recyclers. Bio-medical waste is managed as per Bio-medical waste management rules, 2016.

Integrated Design Team:

Client	:	Dr. K C Premarajan
Principal Architect	:	Mr. S. Krishnamoorthy, EDRC, L&T Constructions
Landscape Architect	:	Mr. Arun KH, EDRC, L&T Constructions
Structural Consultant	:	Dr. Justin S., EDRC, L&T Construction
Electrical Consultant	:	Mr. Ramesh Ramasubramanian, EDRC, L&T Construction
Green Building Design and Certification	:	Mr. Ebenezer G.R