



## Multistoried 198 Nos. T-VI Qts. at M.N.I.T., JAIPUR.



The following strategies were adopted by the project team to reduce the building impact on the environment:

### Sustainable Site Planning:

- Air pollution control measures such as site barricading, wheel washing facility and covering of fine aggregated were strictly adhered to during construction.
- Out of 95 existing mature trees, 3 trees were preserved and 382 new trees were planted.
- Roads have been minimized and pedestrian pathways were shaded. Additionally, all utility corridors have been aggregated.

### Energy:

- Automatic timer based control has been installed for 100% of outdoor lighting.
- 82.5% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- EPI reduction of 53.5% from the GRIHA base case has been demonstrated through the integration of high performance systems.

### Water Management:

- Reduction of 54.88% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 52.65% from the GRIHA base case has been demonstrated in the landscape water demand by installing sprinkler and flood type irrigation systems.

### Renewable Energy Technology installed on site:

- Solar photovoltaic system of capacity 50 kWp has been installed.
- Solar hot water system of capacity 9,000 LPD has been installed.

### Sustainable Building Materials:

- CLC blocks with 50% fly ash content have been used for walling in the project.
- Reduction of 62% in embodied energy by using CLC blocks in the structural system.
- 100% of the material used for In-built furniture (FSC certified plywood for cupboards, granite for kitchen slabs) and for internal partitions (Fly ash bricks) were low energy material.

### Waste Management:

- Multi-colored bins have been provided for segregation of dry & wet waste.
- Central waste collection area has been provided for storage of segregated waste on site for each tower.

<b>Location</b>	: Jaipur, Rajasthan
<b>Site Area</b>	: 26,061.75 m <sup>2</sup>
<b>Built up Area</b>	: 52,837.57 m <sup>2</sup>
<b>Typology</b>	: Residential
<b>Rating Category</b>	: GRIHA Provisional Rating
<b>Version</b>	: Version 3.1
<b>Year of Award</b>	: 2022
<b>Client</b>	: M.N.I.T., JAIPUR.
<b>Integrated Design Team</b>	: Enarch Consultants Pvt. Limited.
<b>Green Building Consultant</b>	: Deependra Prashad Architect and Planners.