



# Sawai Man Singh Super Speciality Hospital, Jaipur, Rajasthan



<b>Location</b>	: Jaipur, Rajasthan
<b>Site Area</b>	: 6,578 m <sup>2</sup>
<b>Built up Area</b>	: 16,473 m <sup>2</sup>
<b>Typology</b>	: Hospital Building
<b>Rating Category</b>	: GRIHA Provisional Rating
<b>Version</b>	: Version 2015
<b>Year of Award</b>	: 2023
<b>Client</b>	: Sawai Man Singh Hospital, Jaipur
<b>Integrated Design Team</b>	: Enarch Consultants Pvt. Ltd.
<b>Green Building Consultant</b>	: Anshu Gupta (MAG Environmental Consultants LLP)

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, sprinkling of water on muddy pathways and covering of loose construction material were strictly adhered to during construction.
- A total of 300 new native trees were planted within project boundary.

### **Energy:**

- 29% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by SP 41.
- Astronomical timer control has been provided for 100% of the outdoor lighting system.
- EPI reduction of 53.3% from the GRIHA base case has been demonstrated through the integration of high-performance systems.

### **Renewable Energy Technology installed on site:**

- Solar photovoltaic system of capacity 90 kWp has been installed.

### **Water Management:**

- Reduction of 38.02% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Hessian cloth were used for curing of columns and ponding technique was used for curing of slabs.

### **Sustainable Building Materials:**

- AAC blocks with 65% fly ash content have been used for walling in the project.
- Vitrified tiles, ceramic tiles, Kota stone and granite have been used as flooring materials in the project.

### **Waste Management:**

- Sequential Batch Reactor (SBR) type STP of 210 KLD capacity and ETP of 70 kLD capacity have been installed on site.
- Multi-colored bins have been provided for segregation of dry & wet waste.
- Centralized waste collection facility has been provided in the basement for the storage of segregated waste.