



REGIONAL REFERRAL HOSPITAL, Nashik

Nashik division



The following strategies were adopted by the project teams to reduce the impact of the existing building on the environment:

Site Parameters:

- Preferred parking provided for electric vehicles provided.
- Strategies implemented over 11,557 sq.m. of site are to reduce the Urban Heat Island Effect.
- Amenities such as bus stop, bank, pharmacy, restaurant etc. are available within 500 meters walking distance from the main entrance of the project.

Energy:

- Solar hot water system installed of 8000L to generate 1,00,000 kWh of renewable energy.

Water Efficiency:

- The total sewage water generated on site is 16.6 kiloliters/day.
- Building water consumption reduced from 10.39 kiloliters/year to 6.73 kiloliters/year.

Human Health and Comfort:

- Indoor comfort conditions measured in summer months; Dry bulb temperature= 29 – 29.2°C, Relative humidity= 42% – 46%, Daylight levels= 500 - 800 lux, Artificial lighting levels= 340 - 440 lux; and Indoor noise levels: 38 - 40 dB were compliant with benchmarks of the Indian Model for Adaptive comfort, SP41.

Location	: Nashik, Maharashtra
Site Area	: 18,287 sq.m.
Built up Area	: 9956 sq.m.
Typology	: Hospital
Rating Category	: GRIHA for Existing Buildings (EB)
Version	: 1
Date of Award	: 13 September 2019
Client	: Government of Maharashtra
Integrated Design Team	: Public Works Department (PWD) Maharashtra
Green Building Consultant	:

Total energy offset
by renewables
= **14.07%**

Total reduction in
building water demand
= **35.26%**

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: **3.93 ton/year**

By conservation of conventional energy: **63.89 ton/year**