



COLLECTOR OFFICE , Aurangabad Aurangabad division



Location	: Aurangabad, Maharashtra
Site Area	: 10,474 sq.m.
Built up Area	: 8,484 sq.m.
Typology	: Commercial
Rating Category	: GRIHA for Existing Buildings (EB)
Version	: 1
Date of Award	: 31 May 2019
Client	: Government of Maharashtra
Integrated Design Team	: Public Works Department (PWD) Maharashtra
Green Building Consultant	: Shashwat Green Building Consultancy

GRIHA EB



3 STAR

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

Site Parameters:

- Amenities such as bus stop, bank, pharmacy, restaurant etc. are available within 500 meters walking distance from the main entrance of the project.
- Preferred parking provided for electric vehicles provided.
- Strategies implemented over 5859.1 sq.m. of site are to reduce the Urban Heat Island Effect.

Energy:

- Replacing old electrical equipment and appliances with BEE star rated ones has reduced the annual energy consumption from 49,819 kWh/year to 44,805 kWh/year.
- Solar photovoltaic system proposed of 8kWp to generate 11,664 kWh of renewable energy.

Water Efficiency:

- The total sewage water generated on site is 6.61 kiloliters/day.

Human Health and Comfort:

- Indoor comfort conditions measured in summer months; Dry bulb temperature= 28 – 32°C, Relative humidity= 45% – 47%, ; were compliant with benchmarks of the Indian Model for Adaptive comfort.

Total energy offset
by renewables
= 26%

Total reduction in
building water demand
= 12.5%

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: 0.37 ton/year

By conservation of conventional energy: 18.16 ton/year