



CENTRAL ADMINISTRATIVE BUILDING, Hingoli, Amravati division

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.

Energy:

- Replacing old electrical equipment and appliances with BEE star rated ones has reduced the annual energy consumption from 70,982 kWh/year to 64,910 kWh/year.
- Solar photovoltaic system proposed of 12 kWp to generate 18,341 kWh of renewable energy.

Water Efficiency:

- Building water consumption reduced from 82.8 kiloliters/year to 55.62 kiloliters/year.
- The total sewage water generated on site is 3.51 kiloliters/day.

Human Health and Comfort:

- Indoor comfort conditions measured in summer months; Daylight levels= 356 - 582 lux, and Indoor noise levels: 36- 43 dB; were compliant with benchmarks of the Indian Model for Adaptive comfort, SP41 and NBC 2005.

Location	: Amravati, Maharashtra
Site Area	: 68,503 sq.m.
Built up Area	: 9,900 sq.m.
Typology	: Commercial
Rating Category	: GRIHA for Existing Buildings (EB)
Version	: 1
Date of Award	: 30 April 2019
Client	: Government of Maharashtra
Integrated Design Team	: Public Works Department (PWD) Maharashtra
Green Building Consultant	: Built Environment (India) Pvt. Ltd

Total energy offset
by renewables
= **28.3%**

Total reduction in
building water demand
= **21.2%**

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: 4.4 ton/year

By conservation of conventional energy: 26.58 ton/year