

REST HOUSE, Vengurla Konkan Division



Location Site Area Built up Area Typology Rating Category Version Date of Award Client Integrated Design Team Green Building Consultant : Vengurla, Sindhudurg district, Maharashtra
: 1273 sq.m.
: 3192 sq.m.
: Hospitality
: GRIHA for Existing Buildings (EB)
: 1
: 30 April 2019
: Government of Maharashtra
: Public Works Department (PWD) Maharashtra
: Built Environment (India) Pvt. Ltd

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

4 STAR

GRIHA EB

Site Parameters:

- Amenities such as bus stop, bank, pharmacy, restaurant etc. were available within 500 meters of walking distance from the main entrance of the project.
- Trees were preserved on site in the ratio of 1 tree per 80 sq.m.
- Strategies such as soft landscape area with vegetation, green roof, solar panels and china mosaic were implemented over 473 sq.m. of site area 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 7852 kWh/year to 197 kWh/year.
- Solar photovoltaic system proposed of 1 kWp to generate 1564 kWh of renewable energy.

Water Efficiency:

• The total sewage water generated on site is 3.65 kiloliters/day.

Human Health and Comfort:

 Indoor comfort conditions measured in summer months; Dry bulb temperature= 29 - 31°C, Relative humidity= 66% - 73%,
 Daylight levels= 270 - 347 lux, Artificial lighting levels= 170 - 206 lux; were compliant - with benchmarks of the Indian Model for Adaptive comfort, SP-41 and NBC 2005.

Total energy offset by renewables = 793.9% Total conventional energy saved at source = 11155 kWh/year

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: 0.35 ton/year

By conservation of conventional energy: 10.04 ton/year