



TAHSIL OFFICE, Nandurbar, Nashik division



Location	: Nandurbar, Nashik, Maharashtra
Site Area	: 6,452.89 sq.m.
Built up Area	: 1,107 sq.m.
Typology	: Commercial
Rating Category	: GRIHA for Existing Buildings (EB)
Version	: 1
Date of Award	: 3 October 2019
Client	: Government of Maharashtra
Integrated Design Team	: Public Works Department (PWD) Maharashtra

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:

- Preferred parking provided for electric vehicles.
- Strategies implemented over 4,277.57 sq.m. of site are to reduce the Urban Heat Island Effect.

Energy:

- Solar photovoltaic system proposed of 20kWp to generate 31,101 kWh of renewable energy.

Water Efficiency:

- The total sewage water generated on site is 2.34 kiloliters/day.

Human Health and Comfort:

- Indoor comfort conditions measured in summer months; Dry bulb temperature= 27 - 28°C, Relative humidity= 40% – 41% and Indoor noise levels: 38 - 40 dB were compliant with benchmarks of the Indian Model for Adaptive comfort, NBC 2005.

Social Benefits

- Provision of ramps at entrance and parking space for differently abled people.

Total energy offset
by renewables
= **186.06%**

Total reduction in
building water demand
= **0%**

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: **1.056 ton/year**

By conservation of conventional energy: **33.32 ton/year**