



## DISTRICT HOSPITAL, Nandurbar Nashik division



|                        |                                             |
|------------------------|---------------------------------------------|
| Location               | : Nandurbar, Nashik, Maharashtra            |
| Site Area              | : 17,795 sq.m.                              |
| Built up Area          | : 12,655 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:

- Strategies implemented over 10,124 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 photovoltaic system proposed of 11kWp to generate 17,053 kWh of renewable energy.

### Water Efficiency:

- The total sewage water generated on site is 4.01 kiloliters/day.
- Building water consumption reduced from 2772 kiloliters/year to 1630.12 kiloliters/year.

### Human Health and Comfort:

- Indoor comfort conditions measured in summer months; Dry bulb temperature= 28 - 29°C, Relative humidity= 38% – 41%, Daylight levels= 260 - 350 lux, Artificial lighting levels= 300 - 600 lux; and Indoor noise levels: 38 - 40 dB were compliant with benchmarks of the Indian Model for Adaptive comfort, SP41.

### Social Benefits

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

Total energy offset  
by renewables  
**= 7.4%**

Total reduction in  
building water demand  
**= 41.19%**

### TOTAL CARBON OFFSET BY THE PROJECT:

**By planting native saplings & preserving existing trees: 1.1 ton/year**

**By conservation of conventional energy: 5.64 ton/year**