Teaching Hospital, Shri Jagannath Medical College & Hospital, Puri, Odisha

GRIHA
4 STAR

Location	: Puri, Odisha
Site Area	: 25,336 sq.m.
Built up Area	: 48,455 sq.m.
Typology	: Institutional
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2026
Client	: Superintendent, Shri Jagannath Medical College & Hospital, Puri
Green Building Consultant	: L&T, CEFD Team

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

Sustainable Site Planning:

- 210 new trees of native species were planted within the project.
- A total of 46.5% of the site's hardscape has been treated through tree shading and the application of high-SRI coatings to reduce the heat island effect.

Energy:

- EPI reduction of 43.82% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 45.36 kWp and a solar hot water system of 16,000 LPD capacity have been installed.

Occupant Comfort:

- 53.33% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.

Water Management:

- Reduction of 59.76% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 63.23% from the GRIHA base case has been demonstrated in the landscape water demand by planting native trees and shrubs.
- STP of 470 kld capacity based on Moving Bed Biofilm Reactor (MBBR) was installed in the project and the reused water was used for flushing and cooling tower make-up water.

Sustainable Building Materials:

- Replacement of 22% of Ordinary Portland Cement (OPC) with fly ash by weight of cement in structural concrete.
- Fly ash bricks with more than 40% of fly ash content have been used for internal and external walling in the project.

Waste Management:

- Multi-colored bins have been provided for segregation of waste.