Chandrapur Forest Academy of Administration, Development and Management, Chandrapur, Maharashtra

GRIHA

★★★

3 STAR

Location	: Chandrapur, Maharashtra
Site Area	: 2,49,427.54 sq.m.
Built up Area	: 27,216.62 sq.m.
Typology	: Institutional
Rating Category	: GRIHA Provisional Rating
Version	: Version 3.1
Year of Award	: 2025
Client	: Director, Forest Academy
Integrated Design team	: AJ Architects
Green Building Consultant	: VK:e environmental

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

Sustainable Site Planning:

- Site planning has been designed to preserve 59.31% of the site, including existing vegetation and topographical features, during the construction.
- Reduction of 4.99% in annual heat gain from the GRIHA base case has been demonstrated through favorable orientation and façade design.
- Topsoil quantum of 3,470 cum. was excavated and same was reused on site for landscaping.

Energy:

- EPI reduction of 83.4% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 150 kWp has been installed.

Occupant Comfort:

- More than 81% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.

Water Management:

- Reduction of 35.79% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Rainwater harvesting tank and bisowales with capacity of 5,762 cum. and 459.27 cum. were provided in the project.

Sustainable Building Materials:

- Pozzolana Portland cement with 34.7% fly ash content were used in plaster and masonry mortar.
- AAC blocks and flyash bricks have been used for walling in the project.

Waste Management:

- Centralized waste collection facility has been provided in the project.
- Multi-colored bins have been provided for segregation waste.