

Manipal Jaipur University New Build Standards

In an era marked by climate change and environmental concerns, universities worldwide are increasingly recognizing the importance of sustainable practices, not just in the classroom but also in their physical Infrastructure. One key aspect of this commitment is the prioritization of constructing new buildings to meet sustainable standards. Manipal University Jaipur emphasizes sustainability in building projects.

Manipal University Jaipur recognizes the imperativeness for sustainable building. Universities are seen as educational and research leaders, and they are expected to lead by example in environmental stewardship. Building sustainably reduces the Manipal University Jaipur's carbon footprint, energy consumption, and waste generation, aligning with global efforts to combat climate change. Sustainable buildings often feature energy-efficient designs and technologies, which lead to reduced operational costs over time. This frees up resources for Manipal University Jaipur to invest in their core missions of teaching and research. Keeping in mind that students and faculty increasingly value sustainability when choosing educational institutions. Manipal University Jaipur prioritizes green building and enhances their reputation as sustainable institutions. Manipal University Jaipur implements building codes and environmental regulations. Constructing sustainable buildings ensures university remains compliant and avoids potential legal issues. Manipal University Jaipur's buildings typically have lower energy and water consumption, resulting in reduced utility bills. These cost savings can be reinvested into academics and campus improvements. Manipal University Jaipur provides a healthier and more comfortable environment for students, leading to improved well-being and academic performance. Manipal University Jaipur's buildings serve as living laboratories for students and researchers to study sustainable technologies, materials, and design principles. Manipal University Jaipur's buildings work as a platform to engage with the local community and promote sustainable practices beyond campus borders.

Universities play a vital role in shaping future generations and contributing to a sustainable future. By prioritizing the construction of new buildings to sustainable standards, Manipal University Jaipur set a positive example for students, faculty, and the broader community. The long-term benefits, from reduced operating costs to enhanced reputation, demonstrate that sustainability is not just an ethical choice but also a strategic one for universities. As climate change continues to be a pressing issue, Manipal University Jaipur must continue to lead the way in sustainable building practices, creating a more sustainable and environmentally responsible world.



GRIHA AWARD

First University in the country to be awarded GRIHA award for integrated Water Management.



GRIHA FIVE STAR RATING

The first University in the country to receive this award for Energy Conservation and Environment Friendly Design

LEED (Leadership in Energy and Environmental Design) INDIA PLATINUM Award.

Manipal University has been conferred with this award being the first campus in the country to do so for Green Building. Based on review done by IGBC on the credits



**MANIPAL UNIVERSITY
JAIPUR**

(University under Section 2(f) of the UGC Act)



submitted by the university, which were evaluated against the rating system for certifying Green Buildings.



The detailed explanation at:

<https://www.youtube.com/watch?v=F3BrKOi18IE>



More details at: <https://jaipur.manipal.edu/muj/about-us/awards-and-achievements/griha-leed-platinum-rated-campus.html>

GREEN CAMPUS

The Academic and Administrative buildings of Manipal University Jaipur (MUJ) have been awarded a 5-star rating by GRIHA (Green Rating for Integrated Habitat Assessment). Manipal University Jaipur is the first University in the country to receive this honour.

GRIHA was all praise for MUJ, saying "that this is one of the best projects we have ever rated and the 1st University Campus in India to get a 5 Star Rating."

The award will be presented to the University on the occasion of its Inauguration on 2 April 2015.

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN (LEED) - PLATINUM RATING

LEED stands for green building leadership. LEED is transforming the way we think about how buildings and communities are designed, constructed, maintained and operated across the globe.

LEED certified buildings save money and resources and have a positive impact on the health of occupants, while promoting renewable, clean energy.

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification. Prerequisites and credits differ for each rating system, and teams choose the best fit for their project.

GREEN RATING FOR INTEGRATED HABITAT ASSESSMENT (GRIHA) - 5 STARS

GRIHA is the National Rating System of India; **GRIHA** is a Sanskrit word meaning - 'Abode.' Human Habitats (Buildings) interact with the environment in various ways. Throughout their life cycles, from construction to operation and then demolition, they consume resources in the form of energy, water, materials, etc. and emit wastes either directly in the form of municipal wastes or indirectly as emissions from electricity generation. **GRIHA** attempts to minimise a building's resource consumption, waste generation, and overall ecological impact to within certain nationally acceptable limits / benchmarks.

GRIHA attempts to quantify aspects such as energy consumption, waste generation, renewable energy adoption, etc. so as to manage, control and reduce the same to the best possible extent. **GRIHA** is a rating tool that helps people assess the performance of their building against certain nationally acceptable benchmarks. It will evaluate the environmental performance of a building holistically over its entire life cycle, thereby providing a definitive standard for what constitutes a **'Green Building'**. The rating system, based on accepted energy and environmental principles, will seek to strike a balance between the established practices and emerging concepts, both national and international. The guidelines/criteria appraisal may be revised every three years to take into account the latest scientific developments during this period.



Adarsh has acknowledged & awarded MUJ campus in the category of “**Exemplary Demonstration of Integrated Water Management**” on February 14th, 2013

GREEN INITIATIVES

- Barrier free campus for differently - abled
- Climate responsive design
- Environment friendly campus
- Use of local materials
- Native species for landscape
- Drip irrigation
- Wastewater recycling
- Natural lighting
- Use of LEDs for energy conservation
- Automatic timer for lighting systems.

WHY DO WE BUILD GREEN?

New buildings are not only a major investment, but they are also a legacy that we will be passing on for decades to come. Our campuses are costly to run and are often used for many hours of the day. When planning for new construction or major renovations, we must consider the lifecycle cost of those buildings, their impacts on the environment, and how they affect and can best serve the many generations that will use these buildings.

Manipal University Jaipur believes universities have accountability for the future. A special role and special responsibility to address challenges as large as climate change by imparting sustainable values to the decision makers of the future.

Building green demonstrates our commitment to sustainability and gives us enormous peace of mind in knowing that the structures we have built are better for the environment, healthier for occupants and save money over the long term.

ENVIRONMENTAL BENEFITS

- Green buildings are designed to use energy and water in a significantly, more measurable, efficient way than conventionally designed buildings



- Green buildings also reduce their waste streams during construction, are built to minimize their impact on the land on which they sit and the ecosystems around them, and are built with sustainably produced, recycled and recyclable materials and products.

STUDENT & TEACHER BENEFITS:

- Green buildings are built and designed with strategies and technologies that aim to improve the quality of indoor air, which could lead to improved student health, test scores and faculty retention
- Green buildings have better lighting, temperature control, improved ventilation, and better indoor air quality
- Help develop environmental consciousness among staff and students alike.

FINANCIAL BENEFITS

- Building green offers dramatic reductions in operations and maintenance costs
- Cost savings are most likely to be fully realised when incorporated at the project's conceptual design phase with the assistance of an integrated team of building professionals. The integrated systems approach aims to design the building as one system rather than a collection of potentially disconnected systems.