MANIPAL UNIVERSITY
JAIPUR

Manipal University Jaipur Energy Efficiency Standards Policy

Policy Statement

Manipal University Jaipur acknowledges its responsibility in supporting a sustainable and energy-efficient future. This Energy Efficiency Standards Policy sets forth guidelines and procedures to ensure that all renovations and new construction projects at the university align with energy efficiency standards, thereby reducing energy consumption and lessening environmental impact.

I. Purpose

The objectives of this Energy Efficiency Standards Policy are to:

Encourage responsible and sustainable energy usage throughout Manipal University Jaipur.

Minimize the environmental impact associated with campus construction and renovation projects.

Provide clear guidelines for architects, contractors, and project managers to follow during design and construction.

Replace non-renewable energy as much as possible with renewable energy sources.

Ensure adherence to relevant local, state, and federal energy efficiency regulations.

II. Scope

This policy applies to all construction and renovation projects undertaken on Manipal University Jaipur's property, covering academic buildings, residence halls, administrative facilities, and other university-owned structures.

III. Definitions

1. Energy Efficiency: Utilizing technology, practices, and design approaches that minimize energy consumption while maintaining or improving performance and comfort levels.

2. LEED Certification: A globally recognized rating system, Leadership in Energy and Environmental Design assesses buildings for sustainability and energy efficiency.

3. Renewable Energy: Energy generated from sources that are replenished naturally, such as solar, wind, and geothermal power.

4. Building Envelope: The physical structure—walls, roofs, windows, and doors—that separates a building's interior from the external environment.

IV. Guidelines and Procedures

A. Project Assessment

- All construction and renovation projects must undergo an initial energy efficiency assessment to determine their potential environmental impact and identify opportunities for improvement.
- The assessment shall consider factors such as building design, materials, systems, and energy sources.

B. Design Phase

- During the design phase, architects and designers must prioritize energy-efficient building concepts and technologies, aiming for a minimum LEED Silver certification or equivalent.
- The design shall include provisions for natural lighting, ventilation, and the use of renewable energy sources.
- Building envelopes must be designed to maximize insulation and minimize heat transfer.

C. Construction Phase

- Contractors and construction managers shall adhere to the approved design plans and specifications for energy-efficient systems and materials.
- All construction personnel shall be trained in energy-efficient construction practices.
- Compliance with energy efficiency standards will be subject to regular inspections.

D. Post-Construction Assessment

- Upon project completion, an assessment will be conducted to ensure that all energy efficiency measures have been implemented as planned.
- Any discrepancies or deviations from the approved design shall be rectified.

V. Implementation and Compliance

A. Responsibility:

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- The Directorate of General Services &Administration shall be responsible for overseeing the implementation and compliance of this policy.
- All university departments, contractors, and project managers shall adhere to this policy and collaborate to ensure its success.

B. Compliance

- Failure to comply with this policy may result in project delays, cost adjustments, or other corrective actions as per university regulations.
- Manipal University Jaipur shall maintain compliance with all applicable local, state, and federal regulations regarding energy efficiency in construction.

VI. Review and Revision

This policy shall be reviewed and updated as necessary to reflect changes in technology, regulations, and best practices related to energy efficiency standards in construction.

VII. Conclusion

Manipal University Jaipur's commitment to energy efficiency in construction is a testament to its dedication to sustainable and responsible practices. By establishing clear guidelines for project assessment, design, construction, and compliance, the university aims to lead by example and reduce its carbon footprint. As similar policies are adopted by other institutions, we move toward a future where energy-efficient construction becomes the norm, supporting a more sustainable and environmentally conscious world.

Version History

Number	Year	Major Revision
Version 4.0	2023	Focus on Awareness
Version 3.0	2022	Increasing Solar Capacity
Version 2.0	2021	More focus on carbon footprint
Version 1.0	2018	Initial policy

Approval

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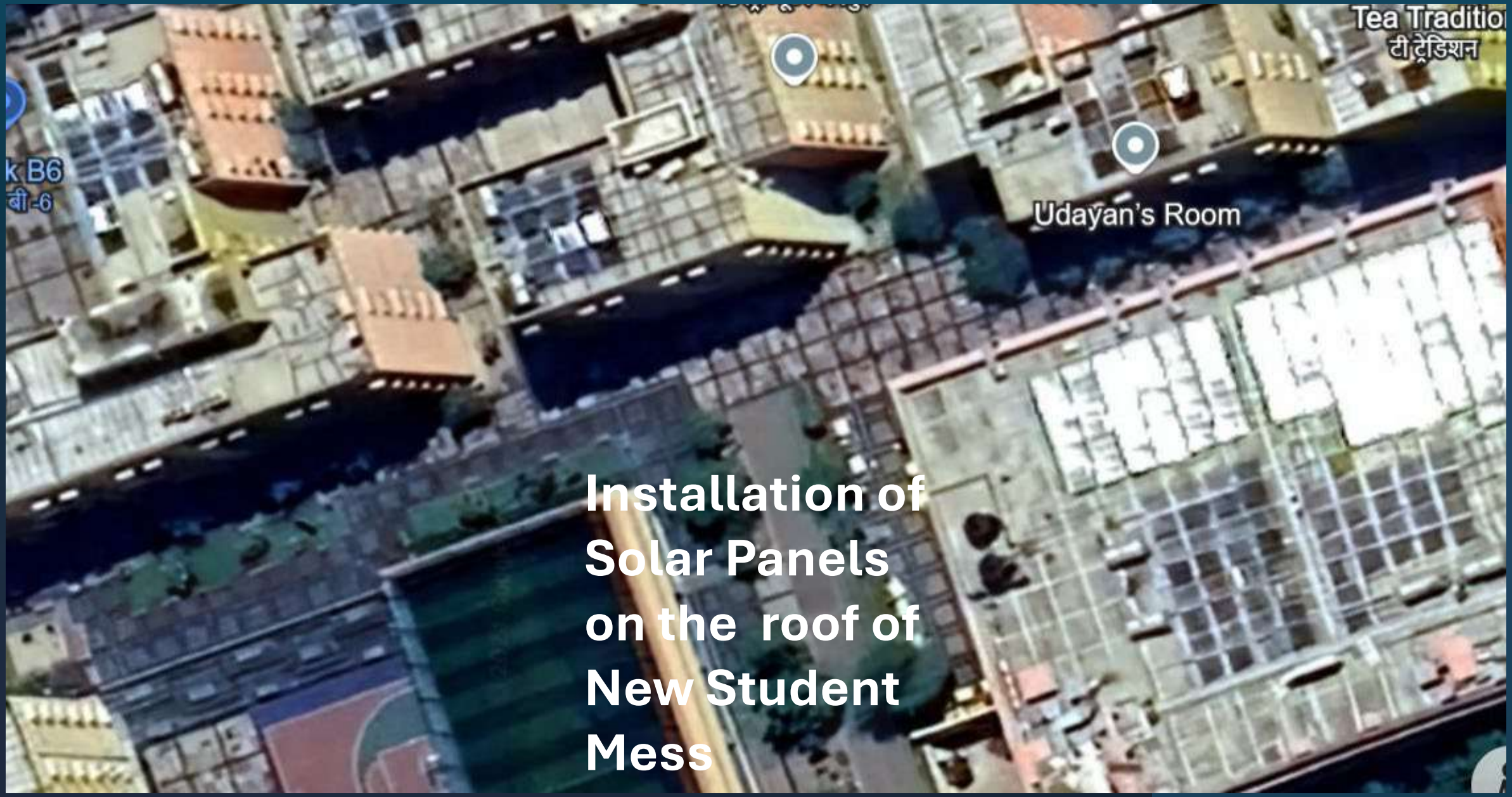
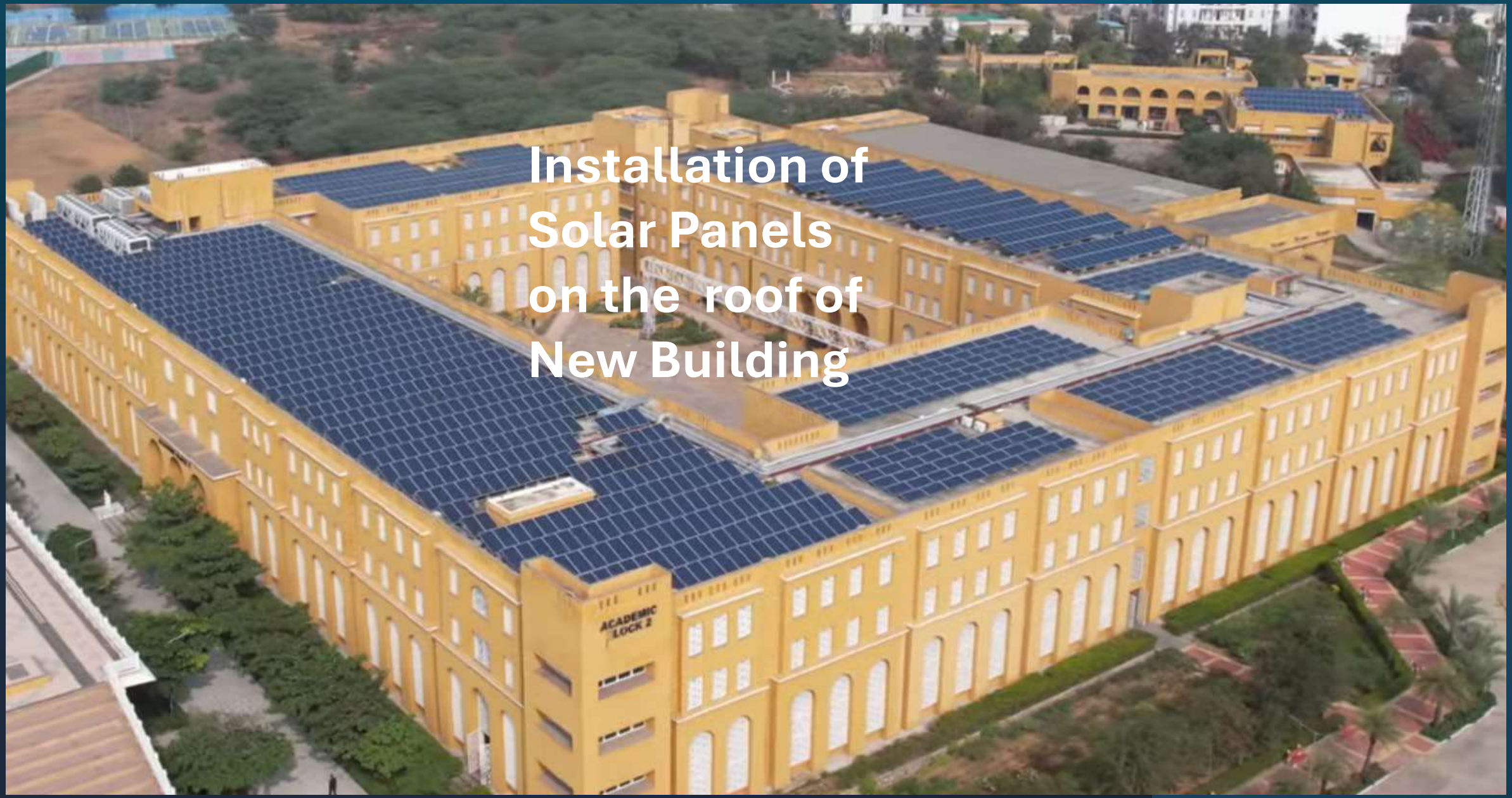
Installation of Solar Panels on the roof of AB-3 Building
Manipal University Jaipur
मणिपाल युनिवर्सिटी जयपुर
Manipal University Library
मणिपाल यूनिवर्सिटी लाइब्रेरी
Vinayak Marg
College Cricket Ground
कॉलेज क्रिकेट मैदान



Installation of Solar Panels on the roof of New Student Mess


Installation of
Solar Panels
on the roof of
New Building
ACADEMIC
BLOCK 2