



# CHOITHRAM COLLEGE OF NURSING

Accredited by NAAC, Affiliated to INC, MPNRC Bhopal, MPMSU Jabalpur  
Choithram Hospital & Research Centre Manik Bagh Road, Indore 452014 (M.P.)



● Phone: 0731-2362491 to 99, ● Ext. No.: 407/578  
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E-mail : cconursing@yahoo.co.in, choithramoffice@gmail.com  
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## INDEX

*7.1.3: The Institution has facilities for Alternate sources of energy and energy conservation devices.*

<b>S.no.</b>	<b>Details of Facilities for Alternate sources of energy and energy conservation devices.</b>	<b>Page No.</b>
1.	Front Heading Page	1
2.	Solar Energy	2-3
3.	Wheeling to the grid	4-5
4.	Sensor based energy Conservation	6
5.	Use of LED bulbs/ Power efficient Equipment's	7



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## CHOITHRAM COLLEGE OF NURSING

### INTERNAL QUALITY ASSURANCE CELL

#### CRITERIA 7 – INSTITUTIONAL VALUES & BEST PRACTICES

##### 7.1 Institutional Values and Social Responsibilities

**7.1.3: The Institution has facilities for Alternate sources of energy and energy conservation devices.**

- Solar energy
- Wheeling to the Grid
- Sensor based energy conservation
- Use of LED bulbs/ power efficient equipment





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Choithram College of Nursing is conscious about conservation of energy. All switches of tube lights, fans are coded, so that only the needed ones will be switched on. Students are self-motivated to switch off lights and fans when not required. Solar energy used in the hostel for provision of hot water. Rain water harvesting is ensured in the college campus. LED lights for carbon neutrality are used in the college campus. College promotes e-waste management by practicing Buy back offers.

## 1. USE OF SOLAR ENERGY

In today's world, there is a growing emphasis on using green energy sources to minimize carbon footprints and ensure a sustainable future. The Indian government is supporting this transition through various subsidies. It's never too late to start protecting our environment by replacing fossil fuels with green energy. In this effort, Choithram College of Nursing is leading the way by harnessing of its energy from solar power, significantly reducing carbon emissions.

Choithram Management has installed Total 95 KWp on grid Rooftop Solar Power Plants to harness the solar since 2016. Solar panels are mounted on the rooftop of the hostel also, for warm water circulation for students use.

Choithram College of Nursing utilizes solar technologies to diversify energy sources, enhance efficiency, and reduce costs. The Choithram management employs both solar photovoltaic and concentrating solar power technologies to generate large-scale electricity for campus use. With a net metering connection, the Solar PV System is linked to the main electricity grid, enabling the sale of power generated by the solar panels.





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## 33KVA SUB STATION

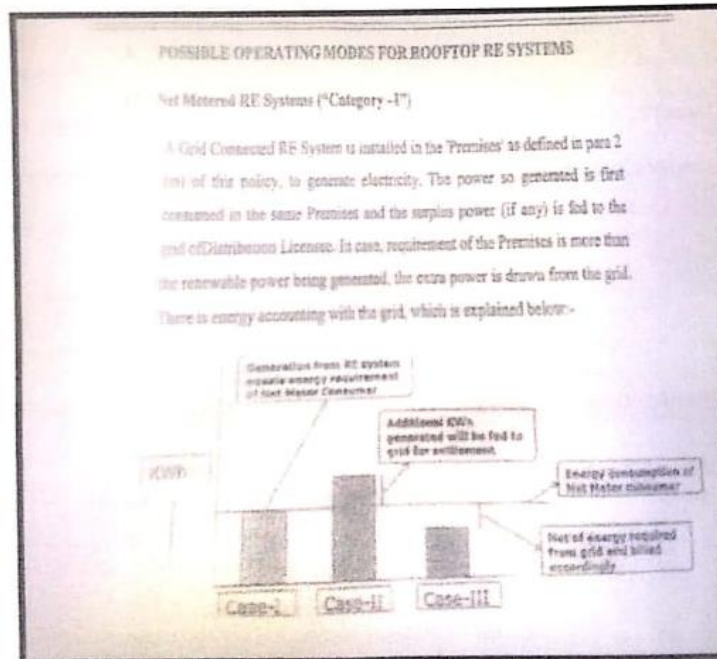




## 2. WHEELING OF GRID

### Net Metered RE System (Category-I)

**Net Metered RE system:** A grid connected RE system is installed in the premises to generate electricity. The power so generated is first consumed in the same premises and surplus power (if any) is fed to the grid of distribution licensee. In case, requirement of the premises is more than the renewable power being generated, the extra power is drawn from the grid.





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**33 KVA Sub -station**





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## 3. Sensor Based Energy

Choithram College of Nursing's adoption of motion sensor-based lights and biometric attendance systems reflects its commitment to leveraging technology for improved operational efficiency, enhanced safety, and sustainability. These innovations not only contribute to a modern educational environment but also support the college's broader goals of reducing environmental impact and ensuring accurate administrative processes. As technology continues to advance, Choithram College of Nursing remains dedicated to integrating solutions that foster an effective and secure learning experience.

Motion sensor-based lighting systems have been integrated into Choithram College of Nursing to optimize energy consumption and improve safety. These systems use infrared sensors to detect movement within a specified area and automatically adjust lighting accordingly.

Biometric attendance systems have been introduced to streamline and secure the process of monitoring student and staff attendance. These systems use unique biological characteristics, such as fingerprints or facial recognition, to verify identity and record attendance.





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## 4. USE OF LED BULBS/POWER EFFICIENT EQUIPMENTS

At Choithram College of Nursing, the adoption of LED (Light Emitting Diode) lights represents a significant step towards enhancing energy efficiency, sustainability, and overall operational effectiveness. LED technology has transformed the way lighting is implemented across various settings, and its integration into the college environment underscores the institution's commitment to modern, eco-friendly practices.

Institution has adopted energy efficient lighting including L.E.D. based, Bulbs and Tube lights etc. to promote energy efficiency. LED fittings with lower wattage, while maintaining the same luminous level, are used in street lights and other areas of the campus. Additionally, Energy Star certified products installed on campus include air conditioners, refrigerators, ceiling fans, and more.



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