

**Sir M. Visvesvaraya Institute of Technology  
Bangalore – 562 157**



**INDEX SHEET**

Report on Environmental promotional activities conducted beyond campus

**CRITERIA NO.: 7**

**SUBCRITERIA NO.: 7.12**

**ALTERNATE SOURCES OF ENERGY**



## SOLAR ENERGY

As a part of the green measures, the campus is equipped with solar panels and solar waterheaters at various locations. Solar panels are installed on the rooftop of the new block. The power rating of the solar power plant installed is 10kW. The power output of the panels is utilized by one of the electronics laboratory in the new block.

In addition, the campus has solar water heaters installed at various locations like men's hostel (Unit I- 18 kW, Unit II- 36 kW, V – 36 kW, mess (unit IV) – 9 kW and PG block (Unit III) – 18 kW), ladies hostel (Block II – 18 kW and III – 18 kW) with a total installed capacity of 153 kW.

The details of the power requirement for the entire campus are as follows:

Venue	Actual power required per month (kwh)	Solar Power generated per month (kwh)	Power drawn from KEB per month (kwh)	Total Power consumed (kwh)
College	40579	7200	33379	40579
Men's Hostel	98756	42120	56636	98756
Ladies Hostel	41653	12960	15733	28693

Venue	Actual power required annually (kwh)	Solar Power generated annually (kwh)	Power drawn from KEB annually (kwh)	Total Power consumed annually (kwh)
College	486948	86400	400548	486948
Men's Hostel	1185072	505440	679632	1185072
Ladies Hostel	499836	155520	188796	344316
Total annual Power	2171856	747360	1268976	2016336

Total annual power requirement = 21,71,856 kwh

Total power supplied from solar = 7,47,360 kwh

Total power drawn from KEB = 12,68,976 kwh

Total power requirement met by solar energy is **34.4 %** of the total load requirement.

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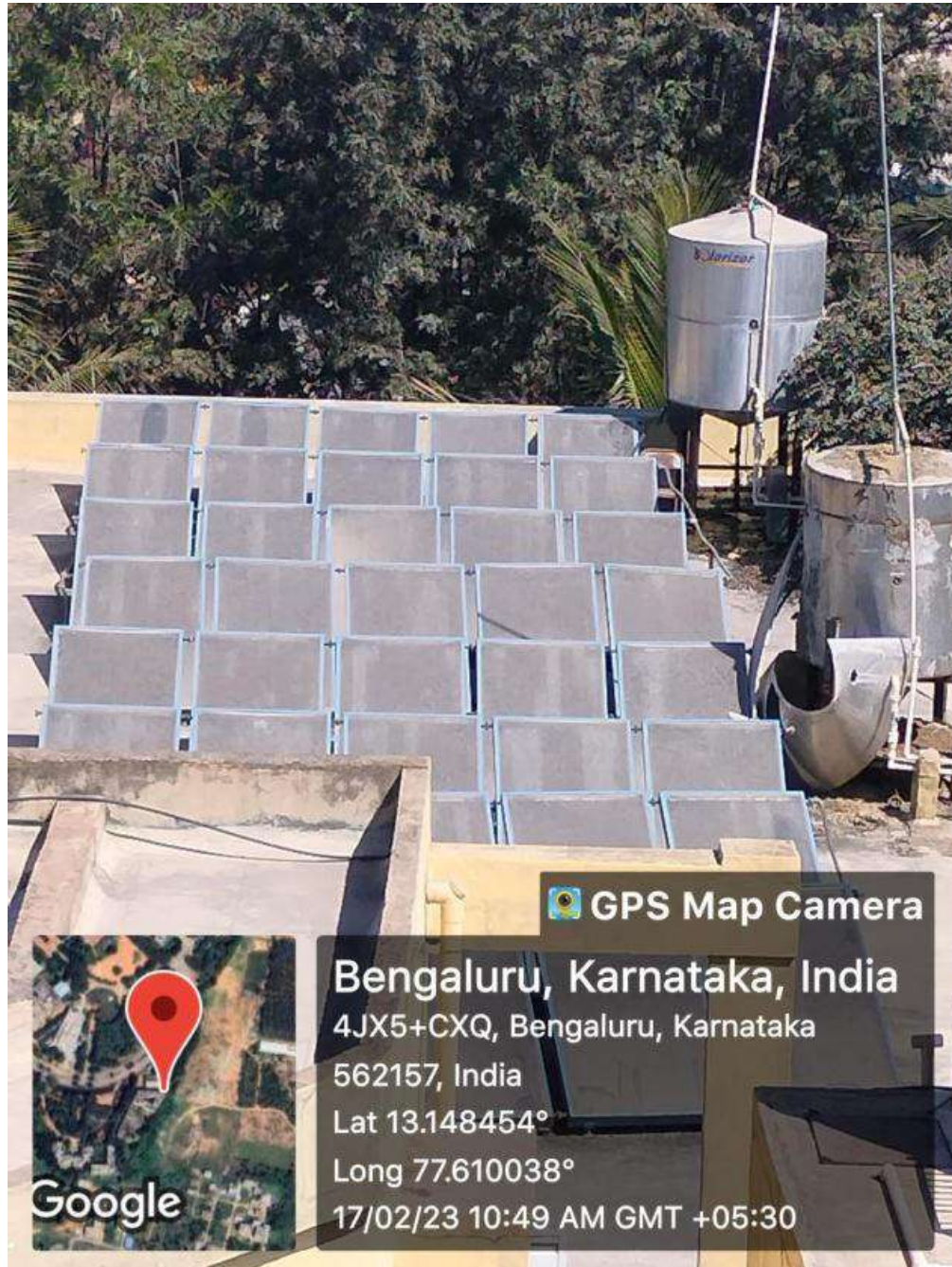
## SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

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### MEN'S HOSTEL UNIT I - SOLAR WATER HEATERS

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### MEN'S HOSTEL UNIT II - SOLAR WATER HEATERS

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GPS Map Camera

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562157, India

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17/02/23 10:50 AM GMT +05:30

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### MEN'S HOSTEL UNIT V - SOLAR WATER HEATERS

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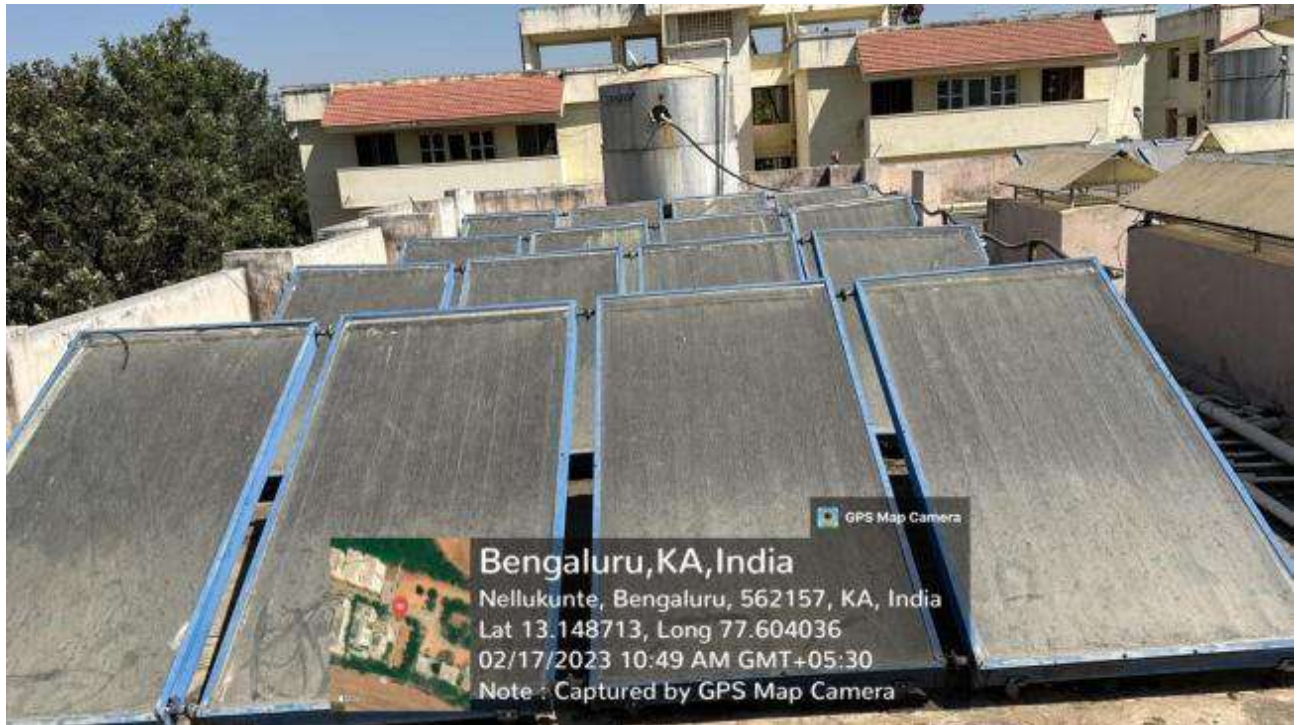
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### LADIES HOSTEL SOLAR WATER HEATERS

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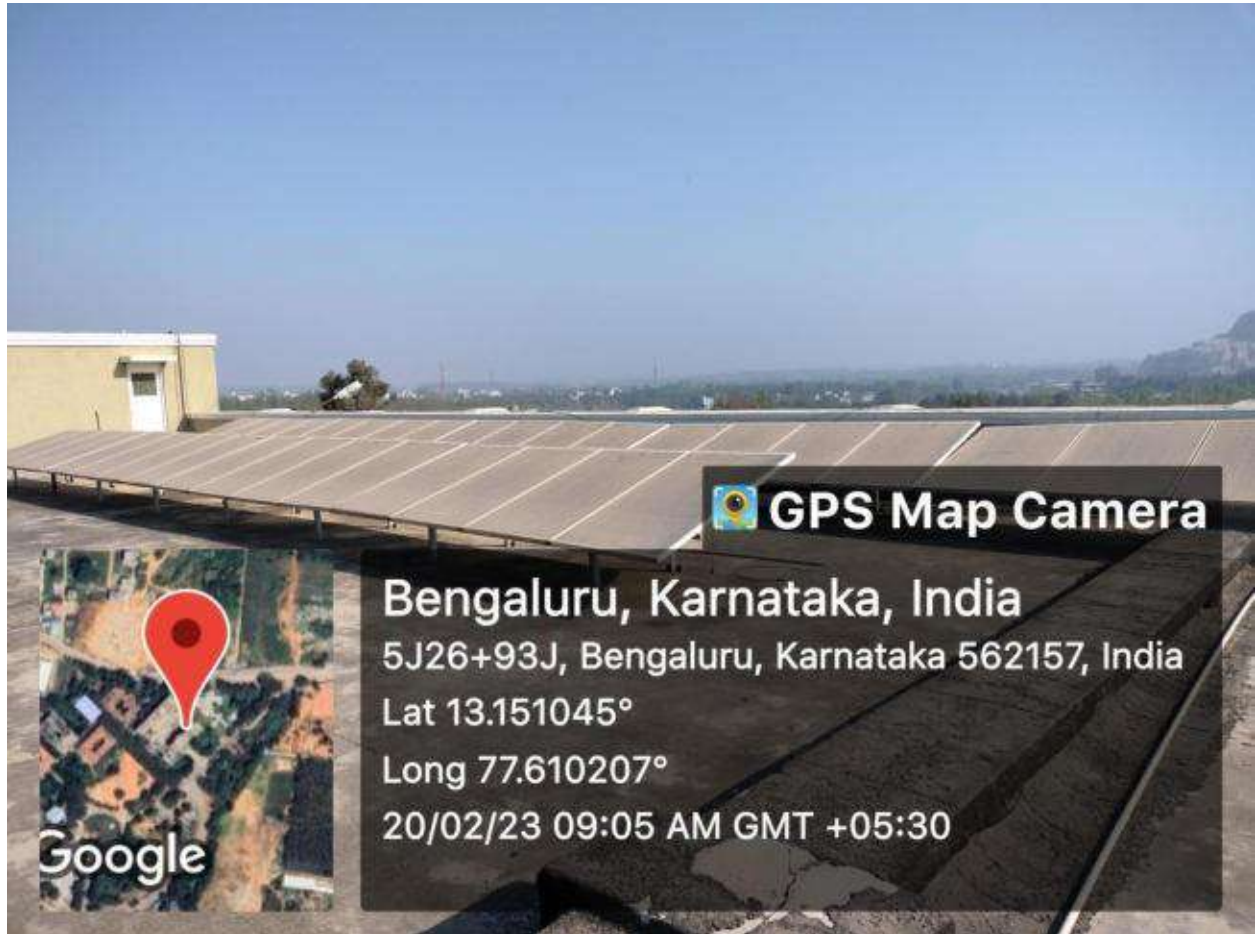
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### SOLAR PANELS INSTALLED AT NEW BLOCK

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