



National Education Society (R.)

Jawaharlal Nehru New College of Engineering, Shivamogga



(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC – 'B', UG programs: CE, ME, EEE, ECE, CSE, ISE, ETE
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INTERNAL QUALITY ASSURANCE CELL (IQAC)

1. Action and Achievement Report on Green Campus Initiatives

- 1) **400 KW Solar Electricity Plant:** JNNCE has invested about two crore rupees to install 400 KW solar PV system. TATA Power Solar Company, Bengaluru provided the equipment for it. 1250 solar panels, 9 inverters of 20/25/50 KW rating are installed on roof of all buildings of JNNCE. The installation and commissioning of the project was completed in March 2020. This solar plant is synchronized to grid for import as well as for export of electric power. By April 2023, total of 15,75,122 units of electrical energy is generated resulting in a revenue of Rs. 1,45,93,438 with reduced carbon emission of 1440 Tons in a span of 3 years.

Year	Generation (Units)	Consumption (Units)	Energy bill (Amount in Rs.)
June 2020 May 2021	5,23,823	2,69,066	4,75,776
June 2021 May 2022	5,14,119	5,25,344	20,25,754
June 2022 April 2023	5,37,180	6,04,230	20,07,755
Total	15,75,122	13,98,640	44,89,285

- 2) **Biofuel Plant:** Bio-Diesel is being produced by District Biofuel Research, Information, and Demonstration Center, JNNCE, Shivamogga from the nonedible oil seeds and fried cooking oil. Around 1500 liters of Bio-Diesel produced during every month can be blended with fossil fuel in diesel vehicles.
- 3) **Use of Lights and Fan:** Frugal use of lights and fans is facilitated by the highly ecofriendly structure of our building. Institute has energy conservation road map to move towards ecofriendly lighting like LED lights. This will help to reduce the energy consumption and lower emission of heat, reducing cooling requirements.




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- 4) **Solid Waste Management System:** Solid Waste Management System is installed and commissioned since 12th July 2017 for the treatment of organic waste which is generated in the college campus area. The organic wastes such as food wastes/vegetable wastes from Hostels and Canteen, Garden wastes of periodical cutting of lawn grass and fallen leaves as well as flowers from trees/vegetation are collected and treated to produce around 32 tons of compost per annum.
- 5) **Sewage Treatment Plant:** Sewage Treatment Plant (STP) of capacity 200 KLD has been constructed and commissioned within the JNNCE campus. The sewage from Hostels, College Mess, College Canteen, Office, as well as all utility buildings of college is being treated and the treated effluent is utilized for flourishing greenery within the campus.
- 6) **Roof Rainwater Harvesting:** The Institution has the facility of 10-million-liter capacity rain water collection, which collected from all the buildings in the campus. In addition to this, surface water collection (rain) in another pond.
- 7) **Phytoremediatin System:** 5 KLD Phytoremediatin system has been installed and working since June 2019. The system is a low-cost treatment unit employed for the purification of grey water where in some specific plants are involved to absorb, accumulate detoxify and remove contaminants from water through physical, chemical and biological process. Presently the system is in function as a pretreatment unit for existing Sewage Treatment Plant.




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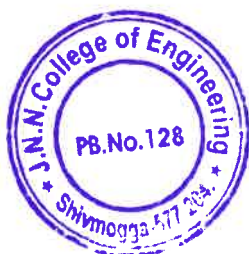
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1. Solar Energy




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2. Biofuel Plant



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3. Energy Conservation Measures- Use of LED Bulbs



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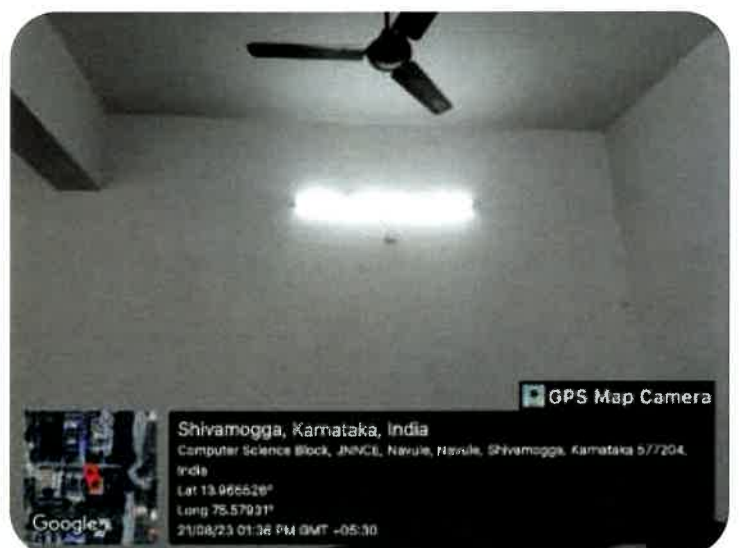


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4. Solid Waste Management



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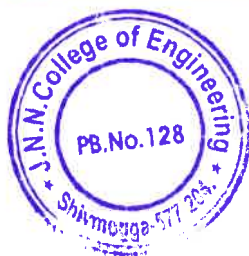
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5. Waste Recycling System-Sewage Treatment Plant (STP)



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6. Phyto-Remediation System



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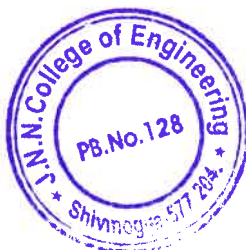
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7. Rain Water Harvesting



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8. Landscaping with Trees and Plants




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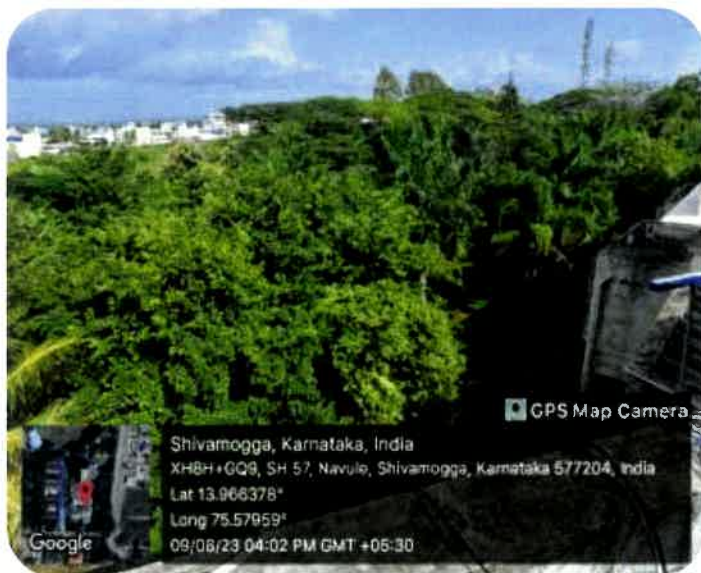


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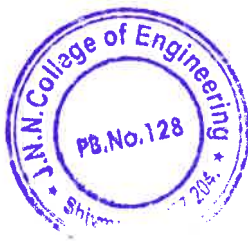


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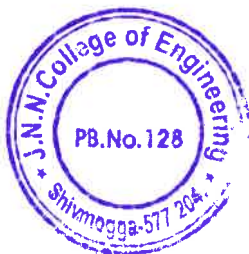


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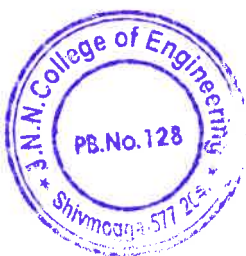


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