



Green Audit Certificate

We take pleasure in Certifying that we have conducted Green Audit of
PONDICHERRY UNIVERSITY

Covering Sustainability, Environment, Water, Waste and Energy Management

IN line with National Building Code 2016-Part 11 and as per directives of NAAC & NABCB

During 14th to 16th May 2024

It indicates **92.11%** compliance as per our scoring method

"Detailed report No. CIC/GAR/003 Dated 2nd June 2024 is attached"

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Certificate No: CIC/ GARC/0003 Dt-02/06/2024



Pondicherry University Green Audit Report by



Competent Inspectorate and Consultants Pvt Ltd

104,203 - Park View, Plot Nos 5&6,

Pushpak Cooperative Housing Society

Prashanthi Nagar Industrial Estate, Kukatpally, Hyderabad – 500072

Green Audit Report

Report Number:	CIC/GAR/003	Date of Issue	3 rd June 2024
Name of the University/ Institute		Pondicherry University	
Areas Covered (Departments/ Buildings/ Facilities)		Pondicherry University	
Audit Period		14th to 16th May 2024	
Name of Lead Auditor		Dr Ajaya Shankar Gupta	
Names of Auditors		Dr. Rama Dasu Pittala Mr Raghu Veera Tadvada	
Report Prepared by:		Reviewed and Approved by	
 Director Systems & Training Dr Ajaya Shankar Gupta		 Dr Rama Dasu Pittala	



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1. Executive Summary:

Pondicherry University was audited during 14th to 16th May 2024 for Green Audit Criteria covering Sustainability, Environment, Water, Waste and Energy Management in line with National Building Code 2016 Part 11 and as per the directives of NAAC & NABCB. The auditors were **Dr. Rama Dasu Pittala, Dr. Ajaya Shankar Gupta, and Mr. Raghu Veera Tadvada**.

The audit covered 12 major clauses covering Sustainability, Environment, Water, Waste and Energy Management as shown in the Table 1:

Table 1: NBC Part 11 Clauses Grouping		
Sl	NBC Part 11 Clause No	Major Focus
1	3 APPROACH TO SUSTAINABILITY	Sustainability, Environment, Water, Waste & Energy
2	4 APPLICABILITY OF THIS PART	Sustainability
3	5 IMPLEMENTATION OF THIS PART	Sustainability
4	6 SITING, FORM AND DESIGN	Environmental
5	7 EXTERNAL DEVELOPMENT AND LANDSCAPE	Environmental
6	8 ENVELOPE OPTIMIZATION	Environmental
7	9 MATERIALS	Sustainability
8	10 WATER AND WASTE MANAGEMENT	Water & Waste
9	11 BUILDING SERVICES OPTIMIZATION	Energy efficiency
10	12 CONSTRUCTIONAL PRACTICES	Sustainability
11	13 COMMISSIONING, OPERATION, MAINTENANCE AND BUILDING PERFORMANCE TRACKING	Energy efficiency
12	14 STATUTORY AND LEGAL COMPLIANCES	Regulatory

Also, the Check Points cover many of the requirements (around 31 Points) in NAAC's Self-Assessment Criteria as detailed in Annexure 1.

During audit the Checklist approved by NABCB has been used which has 150 check points and the auditors marked as NA if any clause is not applicable and then checked their Records, practices/ documents, physical verification, etc. against each check point. If the records/practice/ documents / Physical verification are meeting major requirement listed as Compliant, if not the observations are classified as below:

Major Nonconformity (NC)

Nonconformity that shows a NBC 11 clause or other requirement has not been implemented at all, or has been implemented in such a way that the requirements are not met at all.

Minor Nonconformity (NC)

Single instance, or small set of single instances, that show a requirement has not been met. At the Lead Auditor's discretion, a large number of related Minor Nonconformities may instead be filed as a single Major Nonconformity.

Opportunity for Improvement OFI:

Opportunity for Improvement is Not a nonConformity. It is a cause for a potential non conformity and or for further improvement

The summary of audit findings is as below:

Table 2: Summary of Audit Findings

PU Audit Summary (After FollowUp Audit on 20th May 2024)								
S. No.	NBC Part11 Clause	Total Check Points	Not Appl Points	Net Appl Points	Compliant points	OFIs	Minor NCs	Major NCs
1	3 APPROACH TO SUSTAINABILITY	19	1	18	15	2	1	0
2	4 APPLICABILITY OF THIS PART	1		1	0	1		
3	5 IMPLEMENTATION OF THIS PART	1		1	0	1		
4	6 SITING, FORM AND DESIGN	11		11	11	0		
5	7 EXTERNAL DEVELOPMENT AND LANDSCAPE	13	1	12	9	3		
6	8 ENVELOPE OPTIMIZATION	3		3	2	0	1	
7	9 MATERIALS	6		6	2	1	2	1
8	10 WATER AND WASTE MANAGEMENT	31	3	28	27	0	1	
9	11 BUILDING SERVICES OPTIMIZATION	28	9	19	8	10	1	
10	12 CONSTRUCTIONAL PRACTICES	16	2	14	9	4	1	
11	13 COMMISSIONING, OPERATION, MAINTENANCE AND BUILDING PERFORMANCE TRACKING	11		11	9	2		
12	Legal Compliances	10	1	9	9	0		
	Total	150	17	133	101	24	7	1
						122.5		
						92.11		

By giving a weightage of 1 to compliant, 0.75 to OFI, 0.5 to Minor NC and 0 to Major NC the total points against 133 applicable are 122.5 i.e. equal to 92.11%

THE MAJOR STRENGTHS/ GOOD PRACTICES:

- Comprehensive Green Protocol:** The university adheres to a well-defined green protocol for construction and demolition waste management, enhancing sustainability practices.
- Renewable Energy Utilization:** Significant use of solar photovoltaic systems connected to the grid demonstrates commitment to renewable energy. Solar energy is effectively harnessed to meet a substantial portion of the campus's energy needs, with an installed capacity of 3MW.



3. **Energy Efficient Installations:** Installation of LED fixtures in new buildings, the replacement of 50% of old building lights with LEDs improve energy efficiency and starting of sensor based lighting in verandas.
4. **Sustainable Water Management:** The campus features a Sewage Treatment Plant (STP) with a capacity of 7 lakh liters per day for B Block, exceeding current water consumption needs and designed for future expansion.
5. **Sustainable Rain Water Management:** The university has also submitted a paper to the National Water Mission. Rainwater recharge efforts have resulted in 7,87,062.1 m³ per year, with a total water usage of 2,35,608 m³ per year, raising the groundwater level by approximately 2.0 meters after implementing recharge pits, borehole recharge structures, and rooftop rainwater harvesting structures.
6. **Support for Differently Abled:** Louis Braille Centre, A state-of-the-art facility for visually impaired / differently abled students, scholars and faculty is located at the ground floor of the Library Annex Building. The computing facility with assistive technologies enabled them with their learning and research processes.
7. **Passive Cooling Systems:** Utilization of passive cooling systems, such as cavity walls and extensive greenery, reduces reliance on mechanical cooling.
8. **Training Programs:** The SDG Compliance Plan for 13.3 Environmental Education Measures includes environmental education measures, with various activities conducted, such as awareness on the triple planetary crisis at Sri Aishwaryam Apartments and environmental awareness in Rose Apartments, totaling around 20 activities in 2024.
9. **Landscape and External Development:** Effective landscaping contributes to stormwater management, groundwater recharge, and thermal comfort. The campus maintains extensive green cover, with only around 5% of the area occupied by buildings and the rest as green area.
10. **Material Reuse and Recycling:** The university procures cement supplied in paper bags and reuses paver blocks for parking lots opposite the admin block near the bus stop shelter.
11. **Construction Waste Management:** Construction debris is utilized for filling pits and levelling ground below the HT line, and construction waste is spread for parking cars opposite the School of Management.
12. **Electric Vehicle Usage:** Electric vehicles are used for the movement of staff, promoting sustainable transportation on campus. Also provided Electric Vehicle Charging points in the campus
13. **Natural Lighting Utilization:** The university has made significant use of natural lighting in buildings such as the administration building, library, and chemistry building, reducing the need for artificial lighting and enhancing energy efficiency.
14. **Collaborative Approach:** The University collaborates with various government departments, industries, NGOs, education and research institutes for campus sustainability and outreach.

These practices highlight Pondicherry University's commitment to sustainability and environmental stewardship, aligning with their broader green protocols and energy conservation measures.



MAJOR AREAS FOR IMPROVEMENT:

- I. **Monitoring and Control Mechanisms:** Central Public Works Department (CPWD) Guidelines for Sustainable Habitat and Comprehensive Green Protocol are guiding documents for Sustainability Management. However, there is a lack of structured monitoring mechanisms, development and regular monitoring of benchmarks are essential for assessing and managing environmental factors associated with energy consumption, water utilization, waste generation, and reuse of waste throughout the construction and operation phases
- II. **Digital Models for Construction:** The use of digital models like BIM (Building Information Modeling) may be started, which could enhance planning and execution of construction projects.
- III. **Material Selection Based on Sustainability Criteria:** There is no evidence of using sustainable criteria such as embodied energy, GHG emissions, environmental impact, recyclability, and local availability in the selection of building materials.
- IV. **Water Consumption Monitoring:** Water consumption monitoring is not conducted for individual buildings, which could help in better managing and conserving water resources.
- V. **Energy Management Systems:** The absence of a centralized Energy Management and Control System (EMCS) for tracking energy performance across different building systems.
- VI. **Use of Biofuels:** The exploration and use of biofuels are still in the planning stages and need further development.
- VII. **Cycle Tracks for Sustainable Transportation:** While there are pedestrian pathways and restricted automobile entry, designated cycle tracks are not available, which could further promote sustainable transportation options.
- VIII. **Tests and Air Quality Monitoring:** Periodical measurements of Illumination Levels, Noise levels, Humidity, Temperatures in Classrooms, Ambient air quality monitoring etc need to be done.
- IX. **Neutralization Pits in Chemistry Labs:** The absence of neutralization pits in chemistry labs for managing chemical waste may impact the environment and water quality through contamination.
- X. **Embodied Energy Data Monitoring:** Lack of monitoring embodied energy (EE) data while designing new buildings.
- XI. **Maintenance Plan for Disaster Resistance Features:** No separate maintenance plan for disaster resistance features.
- XII. **Envelope Optimization Methods:** No specific envelope optimization methods used to enhance energy efficiency.



- XIII. **Risk Assessment:** Conducted for the Girls' Hostel construction but not prepared for all other construction sites, including dismantling.
- XIV. **Emergency and Way Finding Signages:** Need further improvement to ensure clarity and coverage.
- XV. **Specific Waste Management Guidelines:** In waste management PU may develop and implement specific guidelines for PU Campus under the Comprehensive Green Protocol. Create a compiled document showing different waste types, quantities, and disposal methods. Expedite the initiation of waste to energy projects for example integrated bio-methanation plant with spent slurry management and application and other upcycling projects. Establish neutralization structures in chemistry and other research labs for toxic waste management
- XVI. **Water Management During Construction:** Not adequately addressed during the construction stage.
- XVII. **Air Conditioning Units:** Transition from old A/C units using R22 to new A/C units with eco-friendly refrigerant such as R32, R134A, and R410, but the change needs speedy implementation strategies.
- XVIII. **Building-Wise Monitoring:** While electricity consumption is monitored building-wise, water consumption monitoring needs to be implemented for different buildings.

By addressing these areas, Pondicherry University can further strengthen its commitment to sustainability and improve its environmental performance.



2. Introduction:

Pondicherry University, accredited with an “A” Grade by NAAC, is one of the most sought after campuses amongst students from across the nation as a destination for Higher Education and Research. Pondicherry University was the first in the country to implement a “Choice Based Credit System” (CBCS) which is now being followed by many other Universities. The University has 15 Schools, 38 Departments, 11 Centers, and 1 Chair offering over 144 PG, PG Diploma/ Certificate & Research programs with a student strength of 8000 plus including foreign students.

For conducting Green Audits CICPL has followed the prescribed methodology outlined in NABCB's policy (Ref. No.: NABCB/P001/09/2022/V.1). This methodology incorporates the relevant clauses of the National Building Code, 2016, Part11, as applicable to the audit process. CICPL obtained approval from NABCB to carry out the audit, ensuring compliance with the necessary standards.

ABOUT PONDICHERRY UNIVERSITY:

Pondicherry University, established in 1985, is a central university located in Puducherry, India. The university is known for its high academic standards, extensive research facilities, and vibrant campus life. Here are some key aspects of Pondicherry University:

Pondicherry University offers a wide range of undergraduate, postgraduate, and doctoral programs across various disciplines, including humanities, science, engineering, management, and social sciences. It has several schools and departments, each dedicated to specific fields of study.

The university places a strong emphasis on research and innovation. It hosts numerous research projects funded by national and international agencies. The university's research activities span various fields, including science, technology, social sciences, and humanities, contributing significantly to academic and applied research.

The main campus is located in Kalapet, Puducherry, and spans over 780 acres. It is equipped with modern facilities such as libraries, laboratories, hostels, sports complexes, and health centers. The university also promotes a **green and sustainable campus environment**.

The university is committed to inclusive education and offers various scholarships and support programs for students from diverse backgrounds, including economically disadvantaged groups and **differently abled students**.

The university promotes a vibrant cultural and extracurricular life. It hosts various cultural festivals, seminars, workshops, and student clubs that provide students with opportunities to engage in creative and intellectual activities outside the classroom.

The university operates under the governance of the University Grants Commission (UGC) and the Ministry of Education, Government of India. It is managed by a team of administrators, including the Vice-Chancellor, who oversees the academic and administrative functions of the institution.



VISION

To serve as an enabler of societal transformation through state-of-the-art higher education and research that match global benchmarks by providing access, resources and opportunities.

To become an institution of global eminence.

Adapting to everchanging needs of the society and industries.

MISSION STATEMENT

To deploy globally competent resources in terms of people, infrastructure and partners through development of trained human resources, who will serve as agents of value based societal transformation in various spheres of life enriched with technology – assisted education, research, training and cultural integration.

CORE VALUES:

The Core Values of our Institution are:

- Promoting excellence in the learning process.
- Expanding the horizon of knowledge through creative research.
- Maintaining high ethical standard in teaching, research, and administration.
- Catering to diverse needs of multicultural, multilingual strata of society.
- Providing good academic ambience in pursuit of excellence in education.
- Ecofriendly campus as a substratum of multidisciplinary courses.
- State-of-the-art infrastructure to support the students' participatory means of seeking knowledge.
- Encouraging awareness about social responsibility and accountability.
- Promotion of equity through continuous improvement and sustainable growth.

ABOUT COMPETENT INSPECTORATE AND CONSULTANTS PVT LTD (CICPL):

Competent Inspectorate and Consultants Pvt Ltd is formed in 2022 by converting Competent Inspectorate and Consultants LLP which was established in 2015 by merging Sun Mann Engineers & Consultants (Serving Industry Since 2009) to provide highly competitive specialized Third Party Inspection and Field Services to support companies in building and managing their assets, ensure quality and compliance, improve reliability, performance and avoid the occurrence of incidents

CICPL performs third party inspections, which include the examination of materials, products, installations, plants, processes, work procedures or services, and the determination of their conformity with requirements and the subsequent reporting of results of these activities to the clients.

3. Audit Scope:

Audit is Covering Sustainability, Environment, Water, Waste and Energy Management in line with National Building Code 2016 Part 11 and as per directives of NAAC & NABCB.

4. References:

- NABCB Policy on Green Audit by Inspection Bodies
- NAAC's advisory ref No.F.No.1429/2022 Dated 26.05.2022
- National Building Code of India 2016 Vol 2 Part 11 Approach to Sustainability
- ISO 17020 Manual and SOPs of CICPL
- National Lighting Code 2010 edition

5. Audit Plan, Opening and Closing Meetings:

Audit plan is attached as Annexure 1

Audit was performed during 14th to 16th May. Follow up audit was conducted on 21st May after receiving action plan on NCR Report.


Opening meeting and closing meeting photos, attendance sheet are given below.



Photo 1: Opening Meeting on 14th May 2024



Photo 2: Closing Meeting on 16th May 2024










Photo 3: Attendance Sheets

6. Areas Covered (Departments/ Buildings/ Facilities)

The physical area covered during audit were as detailed below:



Photo 4: Master Plan of Areas covered during Green Audit

7. NBC Code Section 11 Clause wise Observations

CLAUSE 3 APPROACH TO SUSTAINABILITY

The objective of this clause is to see overall commitment of management towards Sustainability and their approach /system of planning from concept, design, construction, commissioning, operation and maintenance, and also decommissioning and disposal at the end of useful life of structure. Also focuses on Energy Efficient Design and Processes.

In recent years, the University has undertaken a concerted effort to build a green campus that reflects its commitment to sustainability and responsible environmental resource management. To this end, the University has developed a comprehensive vision, mission, and scope for its **Green Campus Initiative** addressing the triple planetary crisis: climate change, loss of biodiversity, and waste & pollution, and to speed up the implementation of Sustainable Development Goals at all levels.

Vision of Green Campus:

At Pondicherry University, our vision for the Office of Green Campus is to create a model campus that not only embraces sustainability and environmental responsibility but also serves as a beacon of hope and inspiration for future generations of environmental leaders to address the urgent challenges posed by the triple planetary crises of climate change, biodiversity loss, and pollution in tandem with the Sustainable Development Goals. Our ultimate goal is to contribute to the preservation of our planet's ecosystems and the wellbeing of all its inhabitants.

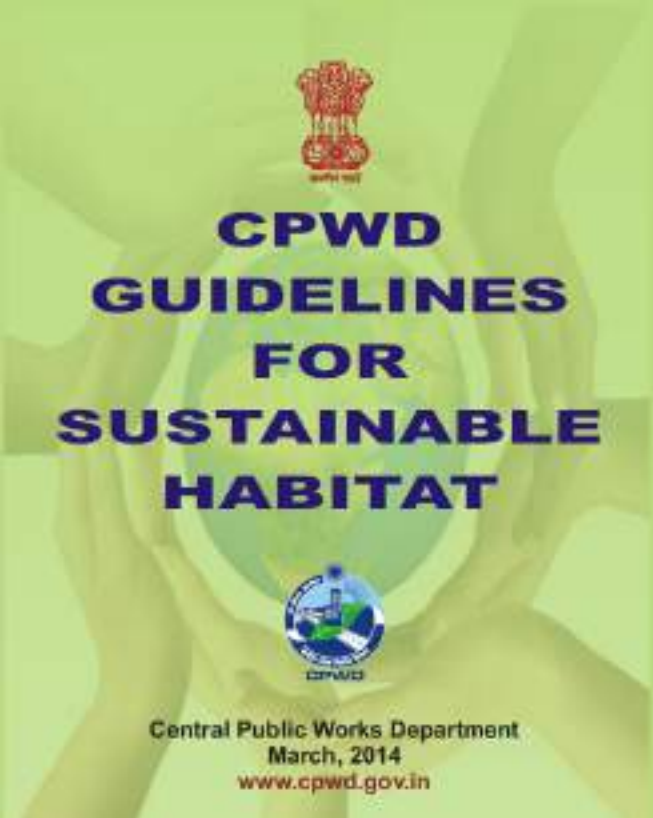

Photo 5: Office of Green Campus displayed on the University






For construction of Buildings and infrastructure development PU follows Central Public Works Department (CPWD) Guidelines for Sustainable Habitat dated March 2014 and Comprehensive Green

Protocol for the educational institutions, Industries' etc. of UT of Puducherry (developed with active participation of PU Team).

The commitment of PU by establishing Green Campus Initiatives and following CPWD Guidelines and Green Protocol indicate it's drive for Sustainability. However, there is no monitoring mechanism is found. Structured Checklist/KPIs, Benchmarks etc. for monitoring may be developed.

 <p>Figure 7-1: Central Public Works Department (CPWD) Guidelines for Sustainable Habitat</p>	 <p>Figure 7-2: Comprehensive Green Protocol for the educational institutions, Industries' etc of UT of Puducherry</p>
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Pondicherry University have provided plumbing services as desired to meet the needs of persons with disabilities and for different age groups in washrooms, ramps, and other facilities like lifts for easy access to classrooms

		
<p>Photo 6: Louis Braille Centre, A state-of-the-art facility for visually impaired</p>	<p>Photo 7: Ramps for Wheelchair Movement</p>	<p>Photo 8: Washrooms for Differently Abled</p>

Louis Braille Centre, A state of the art facility for visually impaired / differently abled students, scholars and faculty is located at the ground floor of the Library Annex Building. The computing facility with assistive technologies enabled them with their learning and research processes.

To have a system of planning from concept, design, construction, commissioning, operation and maintenance, and also decommissioning and disposal at the end of useful life of structure, Pondicherry University follows Comprehensive Green Protocol for the Educational Institutions. It addresses Construction and Demolition Waste Management on page 13. Also, different committees are available for monitoring:

- Finance Committee
- Planning Committee
- CPP – Tendering process
- Building Committee
- GEM portal
- E-Auction committee

To address the possible reuse and recycling of materials, components, structures, or parts thereof, and to ideally close the loop (cradle to grave) regarding the originally used resources, Pondicherry University follows the Comprehensive Green Protocol for educational institutions. This protocol specifically covers construction and demolition waste management, as detailed on page 13.

To encourage and harness building materials from agricultural, industrial, and biowastes, which have significant potential for regeneration, Pondicherry University follows the guidelines outlined by the

CPWD (Central Public Works Department). As per CPWD Guidelines Point No. K, traditional techniques are included and promoted in these practices.

Pondicherry University encourages the use of traditional materials, technologies, vernacular design, and construction practices in its building projects. According to the CPWD Guidelines Point No. K, the university has effectively utilized several traditional techniques for thermal insulation and other construction purposes. These include:

- Brick bat Koba (Brick Koba, DSR Item No. 22.7) for waterproofing and thermal insulation.
- Mud Phuska (Mud Phuska, DSR Item Nos. 12.16, 12.17) for traditional insulation and cooling.
- Broken ceramic mosaic tiles (in flooring, DSR Item No. 11.44) for sustainable and aesthetic flooring solutions.
- Cavity wall insulation (Cavity Wall, DSR Item No. 6.6) for improved thermal efficiency.

These practices not only enhance the sustainability of the buildings but also preserve and promote traditional construction techniques.

To address the tapping of renewable energy sources for lighting, heating, cooling, and ventilation needs, Pondicherry University has implemented several initiatives. These initiatives include installing solar panels to harness solar energy efficiently.

To improve the daylight factor and reduce the need for artificial lighting during the day, strategic changes have been made. For example, the university has switched to using transparent sheets instead of nontransparent ones in certain buildings. This change allows more natural light to enter, thereby reducing the reliance on artificial lighting.



Photo 9: Lighting by Transparent Sheets



Photo 10: Solar Panels

These efforts reflect the university's commitment to sustainability and energy efficiency, aligning with their broader green protocols and energy conservation measures.

Pondicherry University has undertaken calculations for embodied energy (EE) for several newly constructed facilities, including the Boys Hostel, Girls Hostel, and the Chemistry Department building. These calculations are detailed in Annex 3 of their documentation. However, the embodied energy and greenhouse gas (GHG) emissions per square foot or square meter have not been calculated.

The per capita water consumption at Pondicherry University has been as follows:

Total Water Consumption: 545,000 liters per day

Total Occupants: Approximately 10,000 (with 90% being residents)



This results in an average water consumption of about 55 liters per person per day. This consumption rate is within the acceptable range of 35 to 60 liters per person per day, which is typical for boarding schools (*Ref Water consumption in public schools: A case study Article in Journal of Water, Sanitation and Hygiene for Development · January 2019,DOI: 10.2166/washdev.2019.074*)

Pondicherry University has implemented an integrated and sustainable water management system focused on minimizing anthropogenic water discharge from human activities. A key component of this system is the Sewage Treatment Plant (STP) designated for B Block.

An ecofriendly wetland type Sewage Treatment Plant (STP) is part of this strategy. The STP is funded by the Ministry of Human Resource Development (MHRD) under the Higher Education Financing Agency (HEFA) and is being implemented in three phases at various locations. The treated water from this plant is used for horticultural activities, which helps reduce water usage within the university premises. STP Capacity: 7 lakh liters per day. The STP is designed to handle the present water consumption and also accommodate future requirements. This approach ensures that the treated water can be safely reused for various purposes, significantly reducing the amount of untreated water discharge and promoting sustainable water management on the campus.

Under SDG 6 Goal-Specific Policy was developed which addresses Water Conservation, water accounting etc. Also, PU has submitted a paper National Water Mission, which can be accessed through link below

https://nwm.gov.in/sites/default/files/Pondicherry_UniversityCTR2020.pdf

The total rainwater recharges attempted presently were found to be (7,87,062.1 m³ year⁻¹) and the total water usage calculated were (2, 35,608 m³ year⁻¹). About 2.0 m raise in groundwater level has been observed after the erection of recharge pits, borehole recharge structures and roof top harvesting structures.

Pondicherry University is actively engaging with stakeholders, including top management, to promote sustainable development. Environmental education measures, such as awareness sessions on the triple planetary crisis and environmental awareness activities in various residential complexes, are conducted which is essential for fostering a culture of sustainability.

These efforts extend beyond the campus environment to include surrounding residential areas like Sri Aishwaryam Apartments, Rose Apartments etc. With around 20 activities documented in the Annual Report for SDG 13 in 2024, it's evident that Pondicherry University is actively pursuing its commitment to environmental education and sustainable development.

Environmental impact assessment carried out for buildings under construction as shown below

Table 7: EH&SMS – Concrete Column Erection											Annexure: 6	
Sl. No.	Impact	Aspect	Type	DA/LA	N/A/E	(A)	(B)	(C)	(D)	(E)	Score	Control Measures (Workless, Public, and Environment Safety)
I.	Air Pollution	Generation of Dust & Vehicular Exhaust gases	DA	N		1	2	1	1	1	2	a – Barricaded to limit public intervention b – Working under daylight with wind direction c – Cordons off the area
II.	Water Pollution	Worker self-cleaning & tools washing	DA	N		1	2	1	1	1	2	a – Will be done in a demarcated zone b – The system diverted to the wastewater and parking lot
III.	Land Pollution	Concrete leakage	DA	N		1	2	1	1	1	2	a – A demarcated walkway and machinery lane will be used b – Metal sheets shall be provided to collect spillage
IV.	Soil Erosion	Vehicular movement on the soil	DA	N		1	2	1	1	1	2	
V.	Noise Pollution	-	-	-	-	-	-	-	-	-	-	
VI.	Energy Consumption	Concrete mixing	DA	N		1	2	1	1	1	2	a – Working during the day avoiding electrical lighting b – Preventing the idling of the concrete machine/vehicle
VII.	Impact on Natural Heritage	-	-	-	-	-	-	-	-	-	-	
VIII.	Habitat Disturbance	-	-	-	-	-	-	-	-	-	-	
IX.	Degradation of Natural Resources	-	-	-	-	-	-	-	-	-	-	
X.	Waste Generation	Concrete bags, excess concrete, dust/dirt	DA	N		1	1	1	1	1	1	a – Current bags collected separately and disposed of b – Excess & spillage concrete will be used in parking lot
XI.	Odor	Concrete smell	DA	N		1	1	1	1	1	1	a – Barricaded to limit public intervention b – Mask use c – Small allergic worker will not be involved

Score – (A+B+C+D+E)/5										
Frequency (A)	Occurrence (B)	Impact Severity (C)	Legislation (D)	Detection (E)	Situation: Operation					
Negligible	1	Once in a month/ Less frequent	1	Negligible Impact visual pollution	1	Complying with legislative requirements	1	Immediate	1	DA – Direct activity controlled by the authority
Low	2	Once in a week/ several times in a month	2	Minor disturbance nuisance	2		2	More than 1 hour	2	LA – Indirect activity influenced by the authority
Moderate	3	Once in a day	3	Resource consumption/water pollution air pollution	3		3	More than 1 shift	3	N – Normal situation
High	4	Several times a day	4	Chronic Human health effect/ Local contamination	4		4	More than 24 hours	4	A – Abnormal situation
Extreme	5	Continuous	5	Fatal to Human Health	5	Not Complying	5	More than a week	5	E – Emergency situation

Environmental Health and Safety Management System (EH&SMS)
Identification and Evaluation of Environmental Aspects, Inventory Form, Office of Green Campus, Pondicherry University, 2023

11

Figure 7-3: Environmental Risk Assessment Sample

University has prepared Disaster Risk Assessment and mitigation plan comprising identification of risks

MINUTES OF THE MEETING ON VETTING THE DRAFTED DISASTER MANAGEMENT AND EMERGENCY PREPAREDNESS PLAN ON 17.05.2024 AT 4.00 PM IN THE BOARD ROOMA, ADJECENT TO THE DIRECTOR (SEI&RR) ADMINISTRATIVE BUILDING, PONDICHERRY UNIVERSITY, PUDUCHERRY.		
The following members were present:		
Sl. No.	Name and Designation	Status
1.	Prof. K. Anbalagan Dean, School of Physical, chemical & Applied Sciences	Chairman
2.	Dr. S. Balaji Prof. & Head, Dept. of Coastal Disaster Management	Member
3.	Dr. P. Thambidurai Assistant Professor, Dept. of Coastal Disaster Management	Member
4.	Er. V. Mourougavelou Head, Electrical/Civil	Member
5.	Dr. S. Humayun Nodal Officer (NSS / NCC)	Member
6.	Dr. R. Vishnu Vardhan Deputy Coordinator (IQAC)	Coordinator
7.	Dr. M. Nandhivarman, Coordinator, Office of the Green Campus Initiatives	Special Invitee

Figure 7-4: Disaster Management Plan Approval Meeting

during construction, risks during occupancy stages/operations and decommissioning. Training on Snake Bite was conducted for all students 4/10/2023, Speaker Satyam Gupta. Fire Safety Training was conducted on 20th April 2023, Notice PU/ELW/2324/42 verified. Preventive Measures in Connection with cyclone "NIVAR" seen.

Campus is in coastal and cyclonic proximity area. Whenever there are warnings by Meteorological dept, a Circular is issued. Sample PU/ELW/2223/1598 dtd 08/12/2022 seen.



CLAUSE 4 APPLICABILITY OF THIS PART

The evaluation of existing buildings or parts thereof under the provisions of the Code and its application to development projects are critical aspects of ensuring adherence to construction standards and promoting sustainable practices. While CPWD Guidelines and the Green Protocol serve as valuable resources in this endeavor, there exists a notable gap in their effective implementation.

CLAUSE 5 IMPLEMENTATION OF THIS PART

Regarding material selection, design methodology, construction techniques, operation, and maintenance for ensuring the safety, efficiency, and sustainability of construction projects, CPWD Guidelines and the Green Protocol serve as comprehensive resources for guiding these processes, their effective implementation requires improvement.

To enhance oversight and ensure compliance with these standards, the development of structured checklists, Key Performance Indicators (KPIs), benchmarks, and monitoring mechanisms is required.



CLAUSE 6 SITING, FORM AND DESIGN

The objective of this clause is to see if passive design strategies for every building as a means to reducing overall energy demand before pursuing active and mechanical means in an effort to not only save energy but also to minimize the overall negative impact on the environment (energy conservation, water conservation and reduced greenhouse gas emissions.)

The consideration of passive design strategies represents a fundamental step in promoting energy efficiency and environmental sustainability in building construction. By prioritizing passive design measures, such as proper orientation, shading, natural ventilation, and insulation, buildings can significantly reduce their overall energy demand and minimize reliance on active and mechanical systems.

It is observed that orientation markings on the drawing for the Science Block add-on Building for the Computer Science Department indicates a proactive approach to incorporating passive design principles. Additionally, the review of test reports dated 14.2.2022 for fly ash bricks underscores a commitment to utilizing sustainable building materials, further aligning with the goal of reducing environmental impact.

A responsible design professional, engaged by PMC M/s UPRNL, conducted a thorough assessment of onsite natural resources and pre-site conditions, as per the stipulated requirements. Geo technical Report dt 31.05.2021 also verified.

The development plan incorporates thoughtful design strategies to ensure energy efficiency, occupant comfort, and environmental sustainability. By providing external shading during summer, vertical shading to mitigate glare, optimal building orientation based on sunpath analysis, and protection against thermal losses and natural elements, such as wind and rainwater, the plan addresses key considerations comprehensively. Additionally, the inclusion of tree blanketing further enhances shading and microclimate regulation.

The review of the thermal massing calculation for the Girl's Hostel indicates a proactive approach to assessing and optimizing the thermal performance of the building. However, it is essential to ensure that this calculation is accompanied by a comprehensive report that includes the justification for the proposed wall material and design approach.

The requirement specifies that at least 30 percent of open spaces should be maintained as softscapes, which are permeable surfaces on the ground and in areas where the calculated softscape area is less than 10 percent of the total plot area, a minimum of 10 percent softscape area is mandated. In PU only around 5 percent of the area is occupied and the rest is forest, the softscape area requirement is already being met.

The institute has indeed considered strategies to reduce building volume by adjusting floor to floor and floor to ceiling heights while ensuring no compromise to the utility and functional efficiency of the buildings. A standard ceiling height of 11.8 feet has been maintained across all buildings, which is conducive to creating spacious and comfortable indoor environments. Additionally, in airconditioned rooms, the ceiling height has been optimized to 9 feet, balancing energy efficiency with occupant comfort. Random measurements in two buildings have confirmed the adherence to these height

specifications, demonstrating a deliberate effort to optimize building volume without compromising functionality or usability.

The use of landscaping and green massing to enhance thermal comfort in classrooms aligns with the objective of maximizing natural ventilation and cooling based on adaptive thermal comfort criteria. The incorporation of landscaping and greenery serves as a practical implementation of natural ventilation strategies. By strategically placing vegetation around the building, particularly near classroom areas, it leverages the cooling effects of vegetation and promotes airflow, thereby contributing to a more comfortable indoor environment.

The measured daylight factor of 5.22 in the Department of Pollution Control exceeds the minimum requirement specified in the building standards, which mandates that at least 25 percent of regularly occupied areas achieve sufficient daylighting with a minimum daylight factor of 2 percent. This indicates that the department's indoor spaces are well illuminated by natural light, surpassing the stipulated standards for daylighting.

			
Outside Illumination: 1400 Lumex Indoor illumination: 260 Lumex DF = 266 / 1406 100 DF = 18.92%		Outside Illumination: 1400 Lumex Indoor illumination: 292 Lumex DF = 292 / 3680 100 DF = 8.00%	
Photo 11: Day Light Factor Measurements			

CPWD maintenance manual has considered building service life planning in conjunction with design and construction documents. But, it is not having a comprehensive building service life plan.

The Embodied Energy and GHG Calculations given by PU shows the summary as below:

Table 3: EE Sample Data					
Building	GHG Total	SqM	GHG KgCO ₂ e/SqM	EE Total in Mj	EE Gj/SqM
Girls Hostel	6548926.40	14191.22	461.48	7551997.33	0.53
Boys Hostel	5779334.98	7500.00	770.58	4885861.26	0.65
Chemistry Building	6210217.91	3260.00	1904.97	10694884.00	3.28

Though it shows Low Specific EE & GHG Per SqM, Calculations need to be rechecked

CLAUSE 7 EXTERNAL DEVELOPMENT AND LANDSCAPE

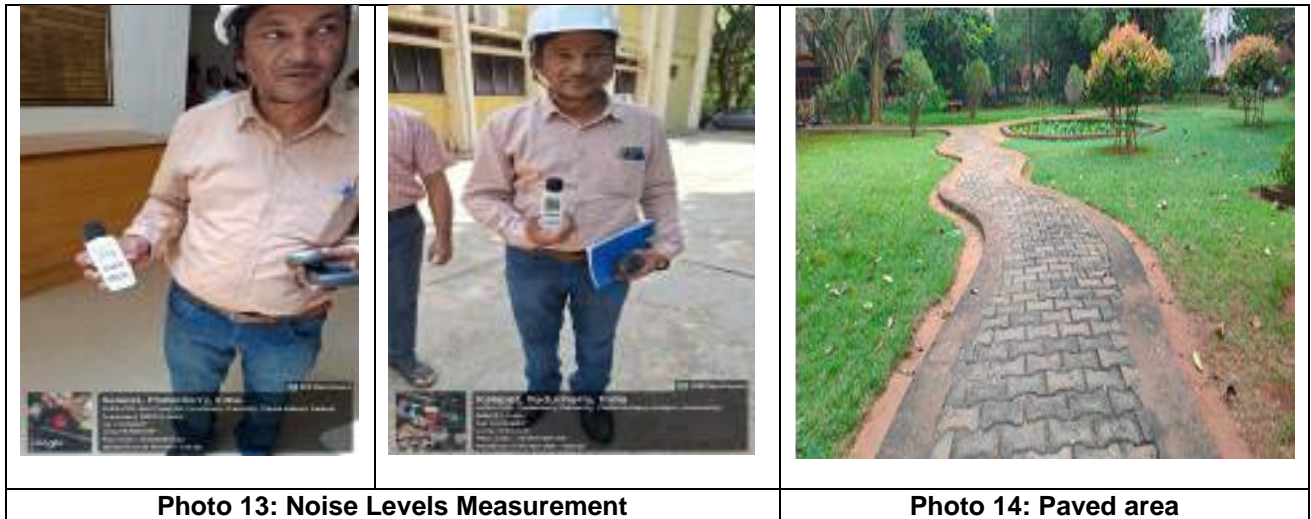
This clause focusses on Landscape planning and design, because effective landscaping plays a vital role in preserving the natural capacity of a site for stormwater management, groundwater recharge, soil structure maintenance, and filtration, leading to the growth of soil organic matter and erosion prevention. Furthermore, it helps to regulate the microclimate by facilitating evaporation, transpiration, and the absorption and storage of carbon by trees and other vegetation.

Landscape planning and design records for Girls Hostel verified. Architect : M/s NJR Constructions Pvt Ltd, Hyderabad. Photos shown below



Additionally, the design of the external landscapes has been thoughtfully integrated with the shading patterns of the buildings. The landscaping plan for the Girls Hostel Building has been verified, showing a building to landscaping distance of 20 feet. This consideration of shading patterns ensures that the landscaping not only enhances the aesthetic appeal but also contributes to the thermal comfort of the building

The institute has taken appropriate measures to assess and address noise reduction at the site. All buildings are situated far from the road, effectively mitigating noise pollution. Random noise



measurements were taken and recorded, with photos indicating that noise levels are within acceptable limits.

The Girls Hostel Building has successfully maximized the perviousness in the paved areas of the site. The calculated pervious area is 54.0%, with the total percolation area being 7002 sqm out of the total site area. (Fencing area 12966 sqm, Road area 2400 sqm, Building area 3564 sqm, Total percolation area 7002 sqm, Percentage 54%).

Additionally, a comprehensive site maintenance plan for landscaping has been developed. The garden maintenance work for the PU Main Campus has been verified and found to be satisfactory. This plan ensures the ongoing care and sustainability of the landscape, contributing to the overall environmental quality and aesthetics of the campus. Landscape maintenance is carried out by the Horticulture team. the entire campus is divided into zones for precise maintenance.

The university has adopted a comprehensive water management strategy that includes both storing rainwater for direct use and recharging groundwater. This is achieved through the construction of two borehole recharge structures near the girls hostel and the Madanjeet School of Green Energy Technology. These structures tap into shallow aquifers and collect rainwater from building rooftops, which is then diverted to recharge pits.

In addition to these structures, the campus features rooftop rainwater harvesting structures and additional recharge structures at the Green Energy building. A total of 12 recharge pits have been strategically placed across the premises, adding a groundwater recharge capacity of approximately 14,328.425 cubic meters per year.



To prevent rooftop rainwater contamination, PU avoided overhanging trees to prevent leaves and bird droppings from falling onto the roof. Additionally, PU diverted the initial rainfall, which often carries airborne dirt and debris, away from the collection tank. The water entering the tank under go filtration, and both the filter and tank receive regular cleaning to uphold water quality.

The site maintenance plan currently includes various maintenance activities and utilizes checklists and an online complaints system for managing tasks. The electrical checklist for Sub Station X, dated 15.5.2024, has been reviewed. However, the plan lacks a schedule for preventive maintenance and does not specifically address the maintenance procedures and checklists for water features as required by Clause 7.3.1 of NBC Part 11.

The institute has implemented measures to reuse water resources effectively. Specifically, treated water from the Sewage Treatment Plant (STP) is partially used for gardening, contributing to sustainable irrigation practices. However, excess treated water is released into the drainage system.

The campus has successfully met the sustainability requirements for paved areas. With green cover present throughout the entire campus, it exceeds compliance with the prescribed standards.

The extensive green cover on campus not only meets these requirements but also enhances the aesthetic and environmental quality of the campus, contributing to reduced heat island effect, improved stormwater management, and a more pleasant campus environment.

The practice of preserving topsoil during construction has been effectively implemented at the site. For the new construction at the Physics Department, topsoil has been carefully stacked on one side for

future use. This measure helps in maintaining soil health and ensures that the topsoil can be reused for landscaping or other purposes once construction is completed. Photo is shown below:



Photo 16: Top Soil

The campus has taken steps towards promoting sustainable transportation and pedestrian access. Pedestrian pathways are available, and there are restrictions on automobile entry, encouraging the use of bicycles and battery powered vehicles. However, designated cycle tracks are not yet available, indicating an area for potential improvement to further support sustainable transport options.

Develop Designated Cycle Tracks: Introduce designated cycle tracks to promote the use of bicycles, enhancing safety and convenience for cyclists.

Regarding external lighting and signage, compliance with clause 7.5 of NBC Part 11 requires attention. While there are signages for emergency and wayfinding, these need to be improved to fully meet the



Photo 17: Signages

standards. Enhancing the clarity, visibility, and coverage of emergency and wayfinding signage will ensure better navigation and safety across the campus.

CLAUSE 8 ENVELOPE OPTIMIZATION

The interface between indoor and external climatic conditions is maintained by the building envelope, which has the potential to regulate the building's climatic response. It is essential that the building envelope be designed to significantly conserve energy. An effectively designed building envelope optimizes daylight, provides access to natural ventilation for fresh air, offers views to the exterior, and enables modulation of solar heat gain while also controlling or reducing noise.

The building envelope has been designed with considerations for energy conservation, maximizing daylight, natural ventilation, and views to the exterior. Additionally, it enables modulation of solar heat gain and noise control. Systems for rainwater harvesting have been integrated into the building envelope, contributing to sustainable water management practices.

Daylight Factor, Ventilation, Rainwater Harvesting: Verified and found satisfactory.



Envelope Optimization:

No specific envelope optimization methods have been deployed for energy efficiency. Explore strategies such as improved insulation, high performance glazing, and reflective coatings to enhance thermal performance and energy efficiency

Humidity levels were measured and found to be higher due to location near sea and rain.

	
<p>Department of Statistics Temperature: 33.3 degree centigrade Humidity: 95 %</p>	<p>Park opposite Library Annexe Temperature: 32.5 degree centigrade Humidity: 77%</p>

Photo 19: Temperature and Humidity Measurements

Integration of Renewable Energy:

The buildings have integrated renewable energy systems, with an installed solar power capacity of 3MW. In April 2024, solar power generated accounted for 48.39% of the total units consumed.





Photo 20: Solar Panels and Solar Power Plant

While the current solar power system is robust, it is recommended to consider increasing the capacity or efficiency of the solar installations and explore other renewable energy sources for further energy diversification and sustainability.

Instruments Calibration certificates



Photo 21: Instruments Calibration certificates



CLAUSE 9 MATERIALS

The selection of building materials is crucial in sustainable design due to the farreaching chain of events involved in producing a material, including extraction, processing, and transportation. Furthermore, these activities can have negative environmental impacts on the air, soil, and water, as well as harm natural habitats and deplete natural resources, not only during building construction but also in the long run.

Sustainable Building Materials:

The selection of building materials does not demonstrate adherence to sustainability criteria, such as environmental impact, recyclability, and use of renewable resources. There is no evidence of analysis or consideration of energy efficiency and greenhouse gas emissions in material selection. Furthermore, no Life Cycle Assessment (LCA) has been conducted for building materials.

There is no indication of the use of alternative materials or techniques to reduce energy consumption and CO2 emissions in construction.

Material Handling and Storage:

The facility has proper material handling and storage procedures in place, as evidenced by the use of construction site stores at the Department of Performing Arts and Food Science Department and the maintenance of stock registers. However, there is no mention of a first in first out policy for material withdrawal.

While the audit did not specifically address moisture sensitive material storage, it is recommended to ensure proper storage conditions for materials like cement, gypsum, steel, and plywood to prevent moisture related damage.

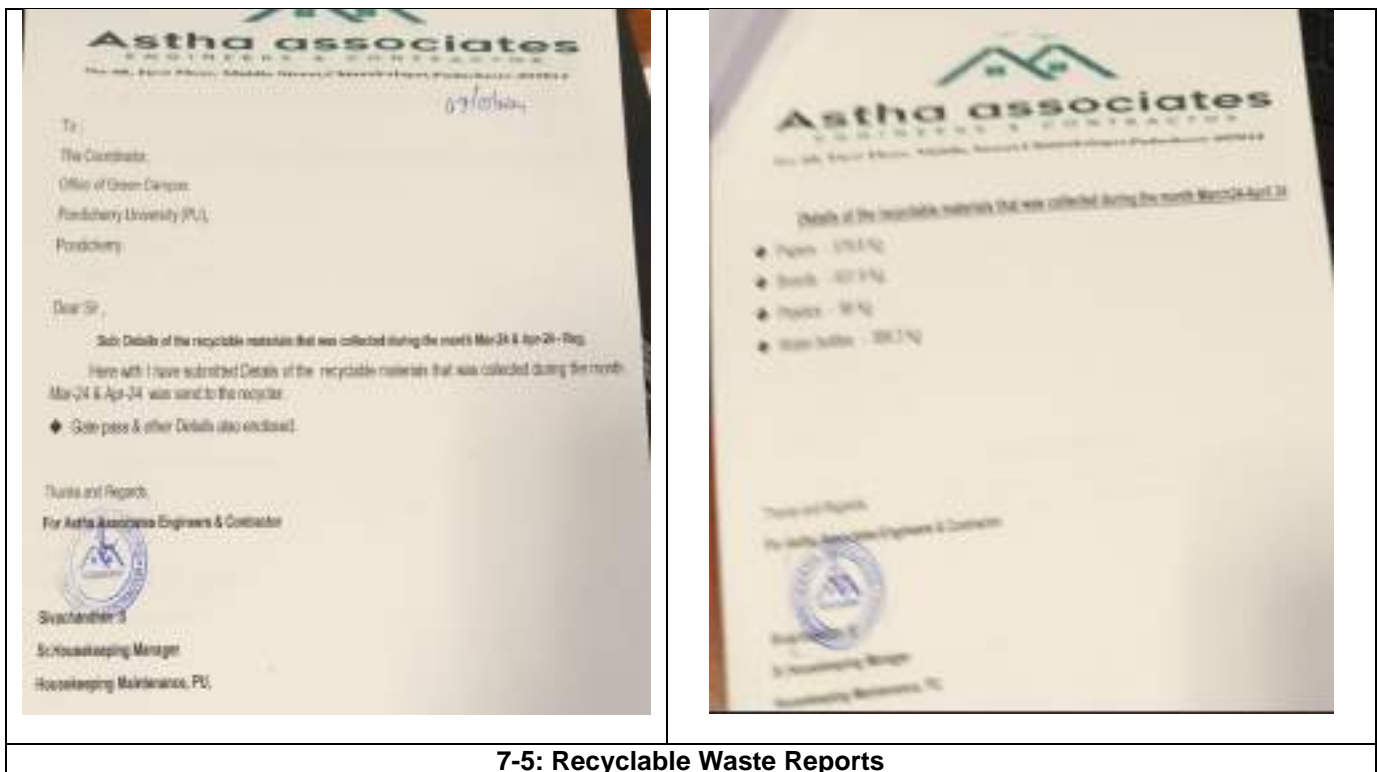
CLAUSE 10 WATER AND WASTE MANAGEMENT

With the increasing population, industrial activity and pollution, surface and groundwater resources have been overexploited and severely polluted during the past few decades. As a result, the country is faced with immense water scarcity. Significant liquid and solid waste generation is witnessed and recorded in the urban areas of the country. Sustainable approach to water and waste management requires planning and design of building functions to integrate issues of water and waste management system at the early stages of design.

a) Conceptualization, Planning, and Design Stage

Waste Management: Addressed in the Comprehensive Green Protocol document (Chapter 5).

Recyclable Waste Collection is Managed by Astha Associates. The report for April 2024 (dated



7-5: Recyclable Waste Reports

07/05/2024) was reviewed.

Monthly Inventory: The detailed report (dated 07/05/2024) from Astha Associates covers hostelwise bin details and includes photos.

b) Construction Stage

Waste Management: Addressed in the Comprehensive Green Protocol document (Chapter 5). However, no specific guidelines for PU Campus are available.

Water Management: Not addressed during the construction stage.

Policies: Goalspecific policies for Sustainable Development Goals (SDGs) 9 & 11 have been developed and approved by the University Governing bodies. These policies will be implemented in fasttrack mode.

c) Performance During Use and Corrective Action

Water Consumption Monitoring: No benchmark data is available. However, specific water consumption is within norms, indicating adequate monitoring and control of water use.

Monitoring Water Consumption: There are no benchmark data available; however, specific water consumption is within norms. Horticulture uses approximately 3,16,800 LPD, while potable water consumption is around 6,00,000 LPD.

Water Balance Chart: Not provided in the audit. Develop and maintain a comprehensive water balance chart that includes all supplyside resources and the integration of recycled water

No largescale water heating systems are used. Electric heaters/geysers are planned with solar power compensation.

Water Efficiency Strategies

Recycled Water Use: STP water is used for gardening; excess water is released into the drainage system. Rainwater harvesting and recharge systems are in place.

PU has submitted a paper to the National Water Mission, accessible (https://nwm.gov.in/sites/default/files/Pondicherry_UniversityCTR2020.pdf).

Grey Water Treatment and Reuse: A wetland type water treatment system is in place near Gate . Photos of the treatment system have been provided.



Composting and Manure Use: A composting area is developed, with photos provided below. Studies were conducted in small scale, large scale system is being planned to establish composting/ biogas plant.



Water and Waste Management During Construction:

Water Sourcing: During construction, water is sourced by the contractor through new borewells. Postconstruction, water management is handed over to the university. Establish benchmark data for water consumption to facilitate precise monitoring and corrective action.

Waste Management: Addressed in a comprehensive waste management plan.

Solid Waste Management and Additional Aspects

1. Burden Reduction on Municipal Waste Disposal:

Waste Management Plan: Addressed in Chapter 5 of the Comprehensive Green Protocol document, and standard operating procedure for plastic/solid waste is in place for PU Campus.

Recyclable Waste Collection: Astha Associates engaged for recyclable waste collection. Reports for April 2024 reviewed, covering papers, boards, plastics, and water bottles.

2. Functional Area Studies and User Responsibilities:

Inventory Reports: Monthly inventory of bins details by Astha Associates for April 2024 reviewed, including hostelwise bin details. However, there is no compiled document showing different waste types, quantities, or disposal methods.

User Roles and Responsibilities: Not specifically addressed in available documents.

3. Strategic Approach Documentation:

Comprehensive Green Protocol: Waste Management is addressed and standard operating procedure with multiple inventory forms for plastic/solid waste are available.

4. Planning and Design for Waste Management:

Waste Collection Zones Map, Waste collection bins are provided (photos given below).

Facilities for Waste Collection Personnel: Ventilation, washing, isolation, and provision for rest areas and uniforms are available.

Containers for Waste: Appropriate containers are provided (photos given below).

Transportation: Tractors are used for waste movement

Segregation Spaces: ATR submitted to Commissioner Oulgaret Municipality in compliance with SWM Rules & Bye Laws (photos given below).

	 <p>Kalpet, Pudukkottai, India 20°43'04"N, 78°04'00"E, Pudukkottai University, Kalpet, Pudukkottai, India EUT TO 00000000 Luma PUDUKKOTAI 18/06/24 04:38 PM GMT +05:30</p>
<p>Photo 24: Waste Collection Zones</p>	<p>Photo 25: E Waste</p>
	
<p>Waste Collection Bins at different collection centres</p> <p>Photo 26: Waste Collection Zones and Bins</p>	

5. Waste-to-Energy: Not yet initiated. Biogas plant negotiations are ongoing with the Association for Promoting Sustainability in Campuses and Communities.

6. Biomedical Waste Management:

Vendor: Authorized vendor M/S PSMPL. Agreement documentation available (photos provided).



Departmental Visits: Departments generating biomedical waste were visited by the CPCB team, with a list available (photos provided).

7. Radioactive Waste Management:

Central Instrumentation Department: Uses gamma irradiation chamber. End of life materials are handed over to AERB. Dosimeters are used for safety (details provided).

8. Toxic and Chemical Waste Management:

Neutralization Pits: Not available in chemistry and other research labs across disciplines.

9. Inflammable and Combustible Waste Management:

Storage: No inflammable wastes are stored, and diesel is not stored.

10. Electronic Waste Management:

Collection and Auction: E-waste are collected and auctioned through MSTC portal (photos provided).

Battery Management: Buyback contract in place with M/S PowerOne Micro Systems Pvt Ltd Bangalore (contract copy dated 11/05/2023 available).

11. Integrated Approach to Water Management:

SDG 6 Policy: Developed, addressing water conservation and water accounting.

National Water Mission: Paper submitted by PU,

(https://nwm.gov.in/sites/default/files/Pondicherry_UniversityCTR2020.pdf).

12. Construction and Demolition Waste Management:

Usage: Currently used for ground leveling for vehicle movement and leveling below HT electrical line.

For sustainable waste management, PU can develop and implement specific guidelines for PU Campus under the Comprehensive Green Protocol. Create a compiled document showing different waste types, quantities, and disposal methods. Expedite the initiation of waste to energy projects. Establish neutralization pits in chemistry labs for toxic waste management.

CLAUSE 11 BUILDING SERVICES OPTIMIZATION

The main objective of this clause is optimization of electromechanical services towards achieving a sustainable building. Reduction in heating, cooling, and lighting loads through climate responsive designs and conservation practices can enhance the energy efficiency of a building.

For optimization of electromechanical services towards achieving a sustainable building by reducing heating, cooling, and lighting loads through climate responsive designs and conservation practices, PU follows CPWD guidelines, which are as follows:

3. Energy Efficient Design and Processes

3.1: Adopt passive architectural design strategies to create climate sensitive buildings with higher thermal comfort and lower energy consumption. In addition to achieving the optimum energy performance, the building should also provide desirable thermal and visual comfort to its occupants, etc.

However, there is no evidence of verifying these requirements before the approval of the design.

PU has incorporated solar passive techniques like landscaping, optimum building orientation, and surface to volume ratio in building designs to optimize building performance. This is verified by design documents showing areas for landscaping (Drawing of Students Amenities Center developed by RM Architects).

For doing a thorough assessment of natural versus mechanical ventilation strategy to minimize the need for artificial cooling, CPWD guidelines address the following:

4.3: A well planned and optimally oriented building relates well to its site and the climate. This maximizes opportunities for:

4.3.1: Passive solar heating when heating is needed.

4.3.2: Solar heat gain during winters.

4.3.3: Natural ventilation as needed.

4.3.4: High quality daylighting throughout the year.

However, there is no evidence of designing considering these guidelines.

Pondicherry University has implemented several sustainable practices and technologies in its building and infrastructure projects:

Passive Cooling Systems: New buildings, such as the Library Annexe constructed by RITES, utilize cavity walls for passive cooling without relying on electrical energy. Additionally, natural cooling is achieved through the extensive use of greenery and trees on the campus, eliminating the need for precooling of ventilation air.



Low Energy Mechanical Cooling Techniques: The university is transitioning from earlier 3star air conditioners to more energy efficient inverter type air conditioners. The shift includes the adoption of refrigerants with zero Ozone Depleting Potential (ODP) and low Global Warming Potential (GWP), moving from R22 to R32, R134A, and R410 refrigerants.

Energy Efficient Electrical Installations: To enhance energy efficiency, LED fixtures have been installed in all new buildings, and approximately 50% of lighting in old buildings has been replaced with LED fixtures. This effort also focuses on providing a high quality visual environment with an emphasis on energy efficiency.

Optimal Use of Daylight: New classrooms and verandas are equipped with sensor lights to optimize the use of natural daylight and reduce the dependency on electric lighting systems.

Monitoring Energy Consumption: All buildings are equipped with multifunction meters to monitor power consumption, and all substations can be monitored from a central desktop, ensuring effective energy management.

Recyclable and NonHazardous Lift Materials: CPWD approved lifts are used, although there are no specific conditions mentioned regarding the materials and energy consumption for these lifts.

Pondicherry University has made efforts to utilize renewable energy in its buildings through various applications. Here are the specific details:

Solar Energy Utilization: The university harnesses solar energy, including the use of solar photovoltaic systems, which are connected to the grid.

Solar Photovoltaic Systems: Implemented, with energy wheeling to the grid.

Solid Waste Utilization: Composting tests have been completed, and largescale implementation is being planned.

BioFuels: The use of biodiesel or biofuels, which are obtained from plant species and not from fossil based sources like crude oil, is being explored. Diesel generator (DG) sets may use a blend of biodiesel and diesel or operate on 100% biodiesel.

Other Renewable Energy Sources: The possibility of exploiting other renewable energy sources, such as geothermal heating and cooling systems, Wind Energy, Waste Heat utilization etc currently not applicable.



CLAUSE 12 CONSTRUCTIONAL PRACTICES

The purpose of this clause is to ensure that sustainable construction is taken into account, which entails developing a design proposal that is not only functionally efficient but also includes meticulous planning to optimize the use of materials and construction technologies throughout the building process. To facilitate this, architectural design should be detailed in advance to enable planning of materials and technologies. Furthermore, feasibility reports should incorporate the necessary considerations for sustainable construction. It is also recommended to use digital models to develop construction methodologies, allowing for simulations of physical developments under working conditions onsite

Pondicherry University has incorporated several sustainable construction practices as part of its infrastructure projects:

Preconstruction Prerequisites and Planning: The university follows CPWD guidelines for sustainable construction, which include planning for sustainable construction and preparation of a sustainable construction management plan. However, there is no system of PU monitoring and control of environmental descriptors comprehensively.

Effective Use of Water: Addressed in tender conditions, ensuring water conservation practices are followed by contractors during construction stage.

Construction Waste Management: There are procedures for managing construction waste. Green Protocol PDF outlines specific procedures such as reusing paver blocks for parking lots and utilizing construction debris for filling pits and leveling grounds.

There is no practice of Monitoring of air quality and noise levels during construction stage, PU has to carried out these studies.

Architectural Design and Materials: The university uses CPWD recommended materials, though selection is not based on thermal massing and embodied energy. The design proposals are approved by the Building Committee, ensuring efficient use of resources and technologies.

PU has to develop list of materials selected based on thermal massing and embodied energy.

Construction Methodology: The execution of works starts only after the construction methodology is established and reviewed for reliability. However, digital models like BIM are not currently used, though exploring their use is recommended.

Environmental Risk Assessments: Environmental risk assessments have been conducted for specific sites, such as the construction site of the Girls Hostel, though not for all sites. There is an Environmental Impact Assessment (EIA) report for these sites, recommending mitigation measures.

Social Impacts: There are no villages or settlers at the construction sites, so social impact issues are not applicable.



Soil and Water Quality Monitoring: Soil testing and water quality monitoring are conducted, with reports from analytical laboratories available for review.

Construction Waste Management Procedures: Detailed in the Green Protocol, including the reuse, recycling, and disposal of waste materials.

Heritage Buildings: No heritage buildings are in close vicinity to the construction sites, so specific architectural compliance is not applicable.

Disaster Risk Mitigation: Disaster risk mitigation is covered in the DRA document, ensuring preparedness and safety during construction activities.

Development and regular monitoring of benchmarks are essential for assessing and managing environmental factors associated with energy consumption, water utilization, waste generation, and reuse of waste throughout the construction and operation phases.

PU may do analysis/ potability tests of Drinking Water Quality from Approved Labs and also Ambient Air Quality monitoring may be done once in a year.



13 COMMISSIONING, OPERATION, MAINTENANCE AND BUILDING PERFORMANCE TRACKING

The objective of implementing a structured Commissioning and handover process for building services encompasses a range of elements including but not limited to natural ventilation, renewable energy systems, metering installation, plumbing, lifts, and HVAC systems commissioning. During the Commissioning phase, it is imperative to document the energy consumption of various systems, water usage etc. These records can be used to analyse and enhance the performance of these systems to optimize their efficiency. Furthermore, Operation and Maintenance (O&M) programs are designed to improve the energy efficiency of building systems without incurring significant capital investments.

Pondicherry University has established various guidelines and systems for commissioning, operation, maintenance, and building performance tracking as follows:

Guidelines for Commissioning and Handing Over: The university follows the CPWD maintenance manual on building and services (Volume 1 and 2), which includes checklists and formats for civil and partial electrical systems.

Energy and Water Consumption Recording: Work is performed according to approved drawings, with procedures in place for confirmation and preparation of each item, including the building handover procedure.

Staff Participation in O&M: Participation is mandated by office orders PU/ESTT/NT4/20122013/158 dated 05/09/2012 and PU/P&S/PPP/202021/201 dated 23/12/2020, ensuring involvement from operations, maintenance, engineering, training, and administration staff.

O&M Plan: An operation and maintenance shift chart for May 2024 has been reviewed, and the O&M document is periodically revised based on new experiences and technologies.

Monitoring Technical and Energy Performance: Building wise electricity consumption is monitored, though water consumption monitoring is not currently performed for different buildings. This monitoring could be expanded to include water usage.

Measurement and Verification (M&V): Ongoing monitoring of energy systems is conducted, but not for water systems across different buildings

Energy Metering Applications: Specific applications have separate energy meters, such as plant AC, building wise meters, shopping complex meters, commercial establishment meters, and auditorium AC plant meters.

Occupant Surveys: Surveys for quarters, hostels, guest houses, and transit hostels are conducted to monitor occupancy annually.

Energy Management and Control Systems (EMCS): There is no centralized system, but separate meters are used for each building to track energy performance.



Training for Operators and Maintenance Personnel: Training programs in electrical safety, O&M of ACs, solar plants, and electrical panels have been conducted. The Central Electricity Authority has also provided training, with photographs available as evidence.

Post Commissioning Maintenance of Control Systems: Maintenance records for plant AC, water purifier systems, and other equipment are maintained. Presently, SCADA is implemented for monitoring, and future plans include extending SCADA for electrical equipment and water supply operations.

These practices indicate the university's efforts towards efficient operation, maintenance, and sustainable building management.

STATUTORY AND LEGAL COMPLIANCES:


As part of Green Audit CICPL also verified applicable Key Legal Compliances and their summary is given below:

Statutory/ Requirement	Legal	Documents Verified	Conclusion
Building Approval/ Permission		CPWD and Works Advisory Board approves building design	compliant
STP Approvals		Designed by Prof Nadeem Khalil Lead India Coordinator - PAVITR, AMU, Aligarh	compliant
Fire Safety Approval		Fire service department approval dtd 20/12/2023 for new buildings seen	compliant
MOUs for E Waste		MOU with Power One Micros for Buy-Back of Batteries All Computers and accessories are Auctioned by MSTC	compliant
FOOD SAFETY BY FSSAI		Sri Sai Hospitality Services FSSAI licence no 13522001000436 seen	compliant
Canteen Licences		NA in the University, it is managed by Food Safety Committee headed by Food Science Department	compliant
Permission document for connecting to the grid from the Government/ Electricity authority		Net-Metering Agreement with Supdt Engineer Cum HOD of Electricity dept Puducherry dtd 30th Dec 2021 seen. Valid for 25 Years	compliant
BioMedical Waste Authorisation		PPCC - DSTE Grant of Authorisation for Bio Medical Waste handling. Ref No Form III 9212/PPCC/BMW/Autho/JSA(PPCC)/2020/287 dtd 19th June 2020	compliant
Forest Department Clearance for Buildings		No. 03/DF&WL/AO/2021-22/249 dtd 26/5/2021 seen	compliant

8. Annexure 1: Audit Plan

		Green Audit Schedule	CIC/GA/01 31.01.2023 Issue 00, Page 01
AUDIT PLAN			
Auditee Organization:	Pondicherry University		Institute Type University
Office Location:	Main Office	Pondicherry University	
	Location Assessed	R.V. Nagar, 605006 Pondicherry	Main Branch /
Address:	R.V. Nagar, 605006 Pondicherry		
Scope of Audit:	Combined Scope	Green Audit	
	Location Assessed	Pondicherry	
Audit Criteria (Applicable Standard / Requirements & Documents):	Green Audit covering Sustainability, Energy and Environmental Management requirements as per NBC Part 11, as per advisory of <u>NABCB</u> & guidelines of NABCB		
Audit Date(s):	14 th May to 16 th May 2024		
Audit Team:	Dr. Rama Dasu Pittala Dr. Ajaya Shankar Gupta Ainspur Mr. Raghu Veera Tadiyada		

Audit Plan Activity (Day 1)		
Time	Activity	Responsibility
11:30	Arrival of the Audit Team	
11:40	Opening Meeting: Introduction, purpose, scope, criteria, methodology of Audit and review of Audit plan	Audit Team VCU Principal
12:30	Presentation by the Auditee: Details of the institute covering Campus location, campus area, number of buildings, organization chart / number of departments, Labs (Physics, Chemistry, Civil Engineering, Computer Lab etc), Generators, Sewage Treatment Facilities etc. Other campus facilities Deciding the people to be audited for different clauses	VCU Principal PU Green Audit Team
12:30-12:40	Audit Team Campus visit covering different departments, Labs, Facilities etc.	PU GA Team
12:40	Lunch	
14:30 to 17:00	Audit for requirements against NBC Part 11: Clause 5 APPROACH TO SUSTAINABILITY Clause 6 APPLICABILITY OF THIS PART Clause 8.1 PRESENTATION OF THIS PART Audit for requirements against NBC Part 11: Clause 6 SITING, FORM AND DESIGN Clause 7 EXTERNAL DEVELOPMENT AND LANDSCAPE	Auditor: Dr. Gupta Auditee: PU GA Team Dr. Rama Dasu Mr. Raghu Veera
17:30 to 18:15	Audit Team discussion and preparing for briefing	Dr. Gupta Dr. Rama Dasu Mr. Raghu Veera

		Green Audit Schedule	CIC/GA/01 31.01.2023 Issue 00, Page 01
Audit Plan Activity (Day 1)			
Time	Activity	Responsibility	
17:15 to 17:30	Day-end briefing to Auditee Team	Dr. Gupta, Mr. Raghu Veera & Dr. Rama Dasu	

Audit Plan Activity (Day 2)		
Time	Activity	Responsibility
9:30-12:00	Audit for requirements against NBC Part 11: Clause 9 ENVIRONMENTAL OPTIMIZATION Clause 9 MATERIALS	Dr. Rama Dasu Mr. Raghu Veera
9:30-12:00	Audit for requirements against NBC Part 11: Clause 10 WATER AND WASTE MANAGEMENT Clause 11 BUILDING SERVICES OPTIMIZATION LIGHT	Dr. Gupta
12:30	LUNCH	
13:40 to 16:45	Audit for requirements against NBC Part 11: Clause 12 CONSTRUCTIONAL PRACTICES	Dr. Gupta
12:40 to 16:45	Audit for requirements against NBC Part 11: Clause 13 COMMISSIONING, OPERATION, MAINTENANCE AND BUILDING PERFORMANCE TRACKING	Dr. Rama Dasu Mr. Raghu Veera
16:45 to 17:00	Audit Team discussion and preparing for briefing	Dr. Gupta Dr. Rama Dasu Mr. Raghu Veera
17:30 to 17:45	Day-end briefing to Auditee Team	Dr. Gupta, Dr. Rama Dasu, Mr. Raghu Veera

Audit Plan Activity (Day 3)		
Time	Activity	Responsibility
9:30 to 12:30	Comparison Audit CHECKS, Preparation of NCR upon	Dr. Gupta & Mr. Raghu Veera
12:30-12:40	Closing Meeting explaining all NCRs & CPOs	All
12:30	LUNCH	
14:00	Review of work corrective Action Plan prepared by Auditee	All
16:10	Close of Audit	
Ramona	1. Take arrangements for Dining Room for Auditors 2. All relevant documents & records should be made available during audit. 3. All relevant / day personnel should be available during audit. 4. Timings are flexible and subject to change based on actual situation during audit.	
Date	05-05-2023	Lead Auditor
		Dr. Ajaya Shankar Gupta, Ainspur



9. Annexure 2: Linkage to 31 Points in NAAC's Self-Assessment Criteria as detailed below:

Green Audit covers these points

Metric No.	NAAC Requirement Metric	Weightage	Where addressed in NBC 11
Environmental Consciousness and Sustainability			
7.1.2 QnM	<p><i>The Institution has facilities for alternate sources of energy and energy conservation measures</i></p> <ul style="list-style-type: none"> 1. Solar energy 2. Biogas plant 3. Wheeling to the Grid 4. Sensor-based energy conservation 5. Use of LED bulbs/ power efficient equipment 6. Wind mill or any other clean green energy Options: <ul style="list-style-type: none"> A. Any 4 or more of the above B. Any 3 of the above C. Any 2 of the above D. Any 1 of the above E. None of the above <p>Upload the specific document as per description given below</p>	6	<p>8.3 Renewable Energy Integration in Envelop 8.3.1 Integration of Solar Thermal Technologies 11.4 Passive Heating Techniques 11.10.1 Daylighting and Controls 11.16 Renewable Energy Solar Energy Wind Energy Bio-fuels Waste heat utilization</p>
<p>Geo-tagged photographs of the facilities.</p> <p>□ Bills for the purchase of equipment's for the facilities created under this metric.</p> <p>□ Permission document for connecting to the grid from the Government/ Electricity authority</p> <p>Apart from the above:</p> <p>Provide Links for any other relevant document to support the claim (if any)</p>			<p>Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Pages 30 -32, 39-41</p>



Metric No.	NAAC Requirement Metric	Weightage	Where addressed in NBC 11
Environmental Consciousness and Sustainability			
7.1.3 QIM	<p><i>Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)</i></p> <ul style="list-style-type: none"> ▯ Solid waste management ▯ Liquid waste management ▯ Biomedical waste management ▯ e-Waste management ▯ Waste recycling system ▯ Hazardous chemicals and radioactive waste management <p>Provide web link to</p> <ul style="list-style-type: none"> ▯ Relevant documents like agreements/MoUs with Government and other approved agencies ▯ Geo-tagged photographs of the facilities ▯ Any other relevant information 	6	<p>10 WATER AND WASTE MANAGEMENT</p> <p>10.6 Planning and Design of Solid Waste Management System</p> <p>10.6.1 Documentation of Nature of Waste and Quantification</p> <p>10.6.2 Identification of Strategies for Solid Waste Management</p> <p>10.6.3 Solid Waste System Planning</p> <p>10.6.5 Provisions for Waste(s) Requiring Special Management</p> <ul style="list-style-type: none"> - Biomedical waste - e- Waste - Management of radioactive waste <p>10. Zero anthropogenic waste design solution</p> <p>10.1.2 Liquid Waste Management</p> <p>10.1.3 Sustainable approach to water and waste management</p> <p>3.7 Integrated Water Management</p> <p>water conserving fixtures, landscaping, rainwater harvesting, aquifer recharging and waste water recycling</p> <p>P Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Pages 16-21,34-39</p>
7.1.4 QnM	<p><i>Water conservation facilities available in the Institution:</i></p> <ol style="list-style-type: none"> 1. Rain water harvesting 2. Borewell /Open well recharge 3. Construction of tanks and bunds 4. Waste water recycling 5. Maintenance of water bodies and distribution system in the campus <p>Options:</p>	5	<p>3.7 Integrated Water Management</p> <p>water conserving fixtures, landscaping, rainwater harvesting, aquifer recharging and waste water recycling</p> <p>7.2 Rainwater Harvesting</p> <p>7.3.1 Design and Post Occupancy Maintenance of Water Features- The site maintenance plan</p> <p>7.3.2 Water Conservation and Irrigation Practices</p>



Metric No.	NAAC Requirement Metric	Weightage	Where addressed in NBC 11
Environmental Consciousness and Sustainability			
	<p>A. Any 4 or more of the above B. Any 3 of the above C. Any 2 of the above D. Any 1 of the above E. None of the above</p> <p>Upload the specific document as per description given below</p> <ul style="list-style-type: none"> Geo-tagged photographs of the facilities. Bills for the purchase of equipment's for the facilities created under this metric. Green audit reports on water conservation by recognised bodies 		<p>7.4.1 Reduced Environmental Impacts from Parking Facilities</p> <p>10.0 zero anthropogenic waste design solution 10.2.1 Planning and Design of Water Supply System 10.2.4 Strategies for Water Efficiency 10.2.5 Strategies for Water Conservation 10.3 Planning and Design of Waste Water System 10.4 Water and Waste Management During Construction?</p> <p>Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Pages 16-21, 26-30, 34-38</p>
<p>Apart from the above: Provide Links for any other relevant document to support the claim (if any)</p>			
7.1.5 QIM	<p>Green campus initiatives include Describe the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles , Pedestrian Friendly pathways , Ban on use of Plastic, landscaping with trees and plants etc in 500 words</p> <p>Upload the specific document as per description given below</p> <ul style="list-style-type: none"> Policy document on the green campus/plastic free campus. Geo-tagged photographs/videos of the facilities. Circulars and report of activities for the implementation of the initiatives document <p>Apart from the above: Provide Links for any other relevant document to support the claim (if any)</p>	4	<p>7 EXTERNAL DEVELOPMENT AND LANDSCAPE 7.4.3 Landscape planning and design 7.4.3 Bicycle Lanes and Pedestrian Access 9.2.1.6 Plastics Use of plastics should be limited as far as possible or preference given to plastic products made with recycled content or renewable resources 11.2 Concept Development - solar passive techniques like Landscaping</p> <p>Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Pages 26-29,33, 39-40</p>



Metric No.	NAAC Requirement Metric	Weightage	Where addressed in NBC 11
Environmental Consciousness and Sustainability			
7.1.6 QnM	<p>Quality audits on environment and energy are regularly undertaken by the institution</p> <p>7.1.6.1.The institutional environment and energy initiatives are confirmed through the following</p> <ol style="list-style-type: none"> 1. Green audit / Environmental audit 2. Energy audit 3.Clean and green campus recognitions/awards 4. Beyond the campus environmental promotion and sustainability activities <p>Options:</p> <ol style="list-style-type: none"> A. All of the above B. Any 3 of the above C. Any 2 of the above D. Any 1of the above E. None of the above <p>Upload the specific document as per description given below</p> <ul style="list-style-type: none"> □ Institutional data in the prescribed format (data template) □ Policy document on environment and energy usage Certificate from the auditing agency. □ Certificates of the awards received from recognized agency (if any). □ Report on environmental promotion and sustainability activities conducted beyond the campus with geo-tagged photographs with 	5	<p>Total Green Audit addresses this</p> <p>3 APPROACH TO SUSTAINABILITY: Sustainability</p> <p>4 APPLICABILITY OF THIS PART :Sustainability</p> <p>5 IMPLEMENTATION OF THIS PART:Sustainability</p> <p>6 SITING, FORM AND DESIGN : Environmental</p> <p>7 EXTERNAL DEVELOPMENT AND LANDSCAPE: Environmental</p> <p>8 ENVELOPE OPTIMIZATION : Environmental</p> <p>9 MATERIALS : Sustainability</p> <p>10 WATER AND WASTE MANAGEMENT: Environmental</p> <p>11 BUILDING SERVICES OPTIMIZATION :Energy Efficiency</p> <p>12 CONSTRUCTIONAL PRACTICES :Sustainability</p> <p>13 COMMISSIONING, OPERATION, MAINTENANCE AND BUILDING PERFORMANCE TRACKING: Energy Efficiency</p> <p>Pages: Total report</p>
<p>caption and date.</p> <p>□ Green audit/environmental audit report from recognized bodies</p> <p>Apart from the above:</p> <p>Provide Links for any other relevant document to support the claim (if any)</p>			Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Audit Report



Metric No.	NAAC Requirement Metric	Weightage	Where addressed in NBC 11
Environmental Consciousness and Sustainability			
7.1.7 QIM	<p><i>The Institution has Differently-abled (Divyangjan) friendly, barrier free environment</i> <i>Write description covering the various components of barrier free environment in your institution in maximum of 500 words</i></p> <ul style="list-style-type: none"> ▯ Ramps/lifts for easy access to classrooms ▯ Divyangjan friendly washrooms ▯ Signage including tactile path, lights, display boards and signposts ▯ Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment ▯ Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading <p>File Description</p> <ul style="list-style-type: none"> ▯ Provide the link for additional information ▯ Upload any additional information 	5	<p>3.2 Elements of Sustainability c) -- needs of persons with disabilities and of different age groups, 7.5.2 External Signage Design</p> <p>Refer Third party Audit Report by NABCB Approved Inspection Body CICPL Pages 16-21,26-29</p>



10. Annexure 3: NCRs Report Excel File Attached separately

Tax Invoice

COMPETENT INSPECTORATE AND CONSULTANTS PVT. LTD.
 104, 203, Park View, Pushpak Co-Op. Housing Society
 Prashantinagar Industrial Estate, Kukaptally,
 Hyderabad-500072, Telangana, India.
 GSTIN/UTIN: 36AAKCC2010P1ZM
 State Name : Telangana, Code : 36
 CIN: U74995TG2022PTC161136
 E-Mail : accounts@cicpl.co

Consignee (Ship to)

Pondicherry University

II-Floor, Dr B.R. Ambedkar Administrative
 Building, R.V. Nagar, Kalapet Puducherry 605014
 State Name : Tamil Nadu, Code : 33

Buyer (Bill to)

Pondicherry University

II-Floor, Dr B.R. Ambedkar Administrative
 Building, R.V. Nagar, Kalapet Puducherry 605014
 State Name : Tamil Nadu, Code : 33

Invoice No.

78

Dated

5-Jun-24

Delivery Note

Mode/Terms of Payment

Reference No. & Date.

Other References

Buyer's Order No.

PU/IQAC/Green Audit/2024/63

Dated

14-Mar-24

Dispatch Doc No.

Delivery Note Date

Dispatched through

Destination

Terms of Delivery

SI No.	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	Conduct of Green Audit at Pondicherry University Adhering to the NABCB Guidelines	998347	1	3,77,542.00		3,77,542.00
	Output-IGST				18 %	67,957.56
Total			1			₹ 4,45,499.56

Amount Chargeable (in words)

E. & O.E

INR Four Lakh Forty Five Thousand Four Hundred Ninety Nine and Fifty Six paise Only

HSN/SAC	Taxable Value	IGST		Total Tax Amount
		Rate	Amount	
998347	3,77,542.00	18%	67,957.56	67,957.56
Total	3,77,542.00		67,957.56	67,957.56

Tax Amount (in words) : **INR Sixty Seven Thousand Nine Hundred Fifty Seven and Fifty Six paise Only**

Company's Bank Details

Bank Name : **Yes Bank-CA-018363700001091**

A/c No. : **018363700001091**

Branch & IFS Code : **Madhapur & YESB0000183**

for **COMPETENT INSPECTORATE AND CONSULTANTS PVT. LTD.**

Company's PAN

: **AAKCC2010P**

Authorised Signatory



COMPETENT INSPECTORATE
AND CONSULTANTS PVT LTD

Formerly Competent Inspectorate and Consultants Pvt Ltd
CICPL/00000000000000000000

Work Completion Certificate and General Feedback

CICPL/GA/CUST/01

Rev: 01, 08-07-2024

GREEN AUDITS FOR EDUCATIONAL INSTITUTES

IN line with National Building Code 2016-Part 11 and as per directives of NAAC & NABCB

Name of Institute/ University	PONDICHERRY UNIVERSITY
Name	Prof. K. THARANIKKARASU
Position/Role:	Director (SEI&RR) & Coordinator (IQAC)
Email	iqac@pondiuni.edu.in
Phone Number	0413 - 2654 557, 597
Date:	05.08.2024

Work Completion Certificate and General Feedback

Work Order No: PU/IQAC/Green Audit/2024/41 Dated.13.02.2024

Work Order Value: Rs. 4,45,500/-

Date of Start : 29.02.2024

Date of Completion: 28.05.2024

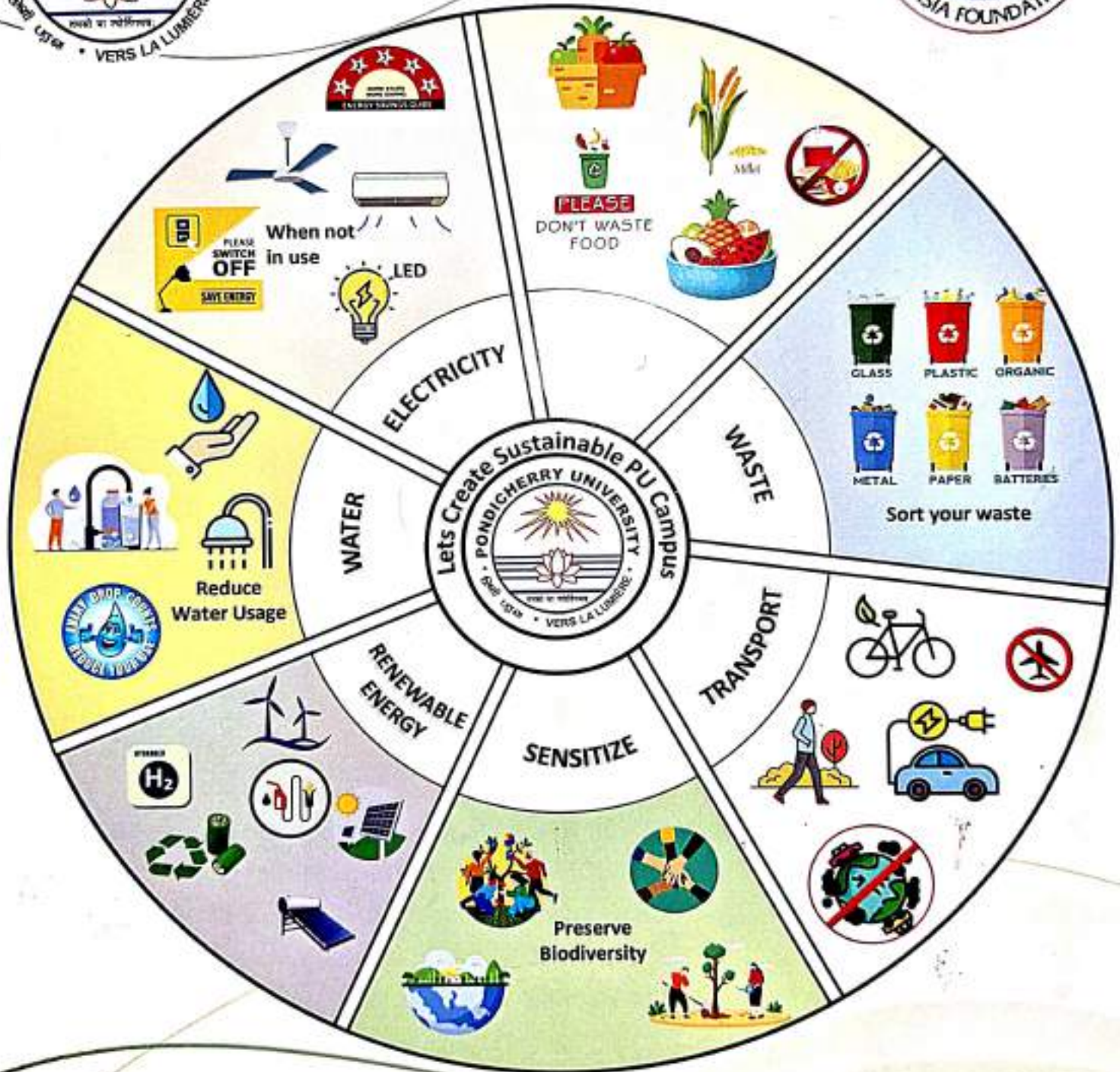
Feedback on 5 point Scale : 1 to 5 (1 being very dissatisfied and 5 being very satisfied)

S.No	Question/ Attribute	Rating (on 5-point Scale)	Remarks if any
1	How do you rate our Training Sessions conducted to explain Green Audit Checklist	5	Training sessions helped the staff of University to prepare the checklist
2	How do you rate us in clarifying your doubts on Green Audit Requirements	5	The members of Green Audit at Pondicherry University were very much satisfied with the support extended by the team of M/s. C IC Pvt. Ltd., Hyderabad.
3	Did you find the audit team knowledgeable and professional?	5	Well trained, knowledgeable in making out the understanding on various points in the checklist.
4	Were the Auditors Impartial and Unbiased?	5	The Audit team was meticulous in auditing by following all the guidelines.
5	How do you rate our Green Audit Process (Including Opening Meeting, Interaction with your team, closing meeting etc.)	5	A well-organized execution and time bounded cum fruit-full interactions.
6	How do you rate our Green Audit Report	5	The report was exhaustive by covering major strengths, OFI, Major and Minor compliances.
7	Is our Green Audit report covered Sustainability, Environment, Energy, Water Management and Waste Management as per NBC Part 11 and NAAC Requirements	5	Audit was adhering to NBC Part 11 and NAAC requirements.
8	Did we give our feedback in an Impartial Way or not?	5	The feedback from Green Audit was open-minded and objective focused.
9	Did we gave you the Linkages details to NAAC Criteria?	5	Yes
10	What aspects of our green audit process do you think can be improved?	5	In person training session and demonstration in covering checklist.

Any other Comment/ Suggestion: In total, the interactions, trainings and auditing was quite helpful and learning. This helped us a lot to look our University in a well - planned executable manner.

Prof. K. Tharanikkarasu
Signature (with seal)
Prof. K. THARANIKKARASU
Co-ordinator
Internal Quality Assurance Cell (IQAC)
Pondicherry University
Puducherry - 605 014

DEPARTMENT OF GREEN ENERGY TECHNOLOGY
Madanjeet School of Green Energy Technologies
Pondicherry University



MAKE PONDICHERY UNIVERSITY A SUSTAINABLE CAMPUS
#SustainablePU

Training and Capacity Building Fostering Lab-to-Land Environmental Education

Refocusing environmental education towards sustainability requires action-oriented learning across formal and informal settings at all societal levels, necessitating a 'lab-to-land' approach. This approach ensures that environmental and climate education permeates all layers of society, addressing the wide range of issues highlighted in the United Nations Agendas. Lab-to-land environmental education emphasizes the conservation of natural resources and the promotion of environmental, economic, and social sustainability through awareness, motivation, on-ground implementation, action research, and experiential learning.



The 'Activity Report (Pictorial)' of the same was released by the Hon'ble Vice-Chancellor Gurmeet Singh, in the presence of Thiru P. Dhanabal, Chief Judge & Chairman, District Legal Services Authority, Puducherry; Thiru L. Robert Kennedy Ramesh, Principal Sub-Judge & Secretary, District Legal Services Authority, Puducherry; Prof K.V. Devi Prasad, Pondicherry University; Aravazhi Irissappane, Director; Eminent Professors Dr. G. Krishnamoorthy, San Diego State University, California, USA & Dr. Stephanos Stephanides, University of Cyprus, along with the Convener – Dr. Golda A. Edwin Executive Director, APSCC and Dr. M. Nandhivarman, Coordinator, Office of Green Campus, PU.

As part of climate education, Pondicherry University in Collaboration with various other stakeholders provided intensive hands-on training and capacity building to postgraduate and school students representing France and India. This training covered the main areas of focus like water, food, energy, biodiversity, resource recovery, conservation, and entrepreneurship, complementing regenerative agriculture. This initiative aligns with the multiple global goals precisely SDG 2, SDG 4, SDG 5, SDG 11, SDG 12, SDG 13, and SDG 17,

and also complements the UN Decade on Ecosystem Restoration (2021-2030) and the UN Decade on Family Farming (2019-2028).

The objectives of this initiative are:

- To raise awareness of climate change and build capacity for adaptation.
- To offer comprehensive training covering water, food, energy, ecosystems, and resources.
- To foster environmentally conscious behavior.
- To provide platforms for ecopreneurs.
- To document, store, and disseminate knowledge.

Key partners and initiators include local authorities, scientists, professionals, stakeholders from central universities, multiple state government departments, and experts. The pilot project was launched in Puducherry, India, using a multipronged approach that integrates various stakeholders from both formal and non-formal sectors, with potential applicability to a global audience.

The three primary activities are:

- Implementing small-scale actions
- Monitoring, documenting, and reporting
- Dissemination

These activities were conducted over three months during the 2019-20 academic year and have been ongoing since 2019.

The main outcomes include:

- Students gained enhanced knowledge of small-scale climate adaptation actions.
- The lab-to-land environmental education approach catalyzed changing attitudes.

References:

- ✓ Training-and-capacity-building-for-the-compliance-of-green-protocol (2020)
<https://www.apscglobal.org/2020/01/01/training-and-capacity-building-for-the-compliance-of-green-protocol/>
- ✓ Lab-to-Land Environment Education and Action Research (2021)
<https://www.apscglobal.org/programs-l2l/>

International Climate Change Adaptation & Resilience Program

To tackle the critical challenges of the planetary crisis-climate change and global warming, nature and biodiversity loss, and pollution and waste an International Climate Change Adaptation & Resilience Program (ICCARP) was initiated with the support of alumni of Pondicherry University. This program drives several thematic, nature-positive campaigns with multiple alliances and networks. These initiatives form part of a Sustainable Transformation Agenda focused on Responsible Nation-building, Community Empowerment and Development, and Ecosystem Restoration.



The primary goal is to foster an ‘attitude change’ towards sustainability in both institutions and their surrounding communities, while also supporting multiple Sustainable Development Goals under the following themes:

1. Green Campus Initiative at Higher Educational Institutions
2. Lab-to-Land Environment Education and Action Research @ Schools
3. Regenerative Agriculture - Topsoil Pollution Prevention, Ecosystems Restoration and Organic Food Production
4. Conserving Fauna of Concern
5. Cooperation for Wetlands, Aquifer, and Oceans Restoration and Conservation
6. Industrial Symbiosis & Revitalizing Village Industries for Sustenance

In alignment with the UN Decade on Ecosystem Restoration (2021-2030), the Association for Promoting Sustainability in Campuses and Communities has launched the ‘International Climate Change Adaptation & Resilience Program (ICCARP),’ which is endorsed by the United Nations Framework Convention on Climate Change.

As part of this effort, local, national, and international community learning centers and adult education institutions will be established in partnership with universities, NGOs, and international organizations. Additionally, this program will support interventions that promote agro-food products, regenerative farming practices, village and cottage industries (country-specific handicrafts), livelihood security, and ecosystem restoration initiatives, working together with diverse stakeholders worldwide. Further, this will provide climate education, training, capacity building, rural women upliftment, sustainable agriculture practices, local and international collaborations, technology transfer, platforms to showcase the regional produce, and other country-specific and need-based measures.

Operating on an international scale, the program accelerates the implementation of restoration initiatives, engaging students, researchers, scientists, local authorities,

policymakers, bureaucrats, professionals, citizens, and others-ensuring that no one is left behind.

The program, launched in 2021, focuses on implementing region-specific restoration activities worldwide and will continue throughout the decade and beyond, aligning with the UN Decade on Ecosystem Restoration and the Sustainable Development Goals (SDGs). Funded by governments, donations, philanthropists, and fundraising efforts.

The program aims to reduce pollution levels, sustain natural resources, shift attitudes, and encourage collective participation while supporting various United Nations Decades and Programs.

References

United Nations Framework Convention on Climate Change #NWP Knowledge Portal:
<https://bit.ly/4d1aDvT>

International Day against Drug Abuse and Illicit Trafficking on June 26th, 2024 at the Chevalier Sellane Government Higher Secondary School, Kalapet,

The Department of Social Work, School of Social Sciences and International Studies, Pondicherry University marked the International Day against Drug Abuse and Illicit Trafficking on June 26th, 2024 at the Chevalier Sellane Government Higher Secondary School, Kalapet, Puducherry from 2:00 PM to 4:00 PM. under the initiative of “Nasha Mukh Bharat Abhiyaan,”. It aimed at educating school going adolescents about the dangers of substance abuse and the importance of prevention.

Prof. K. Anbu, Head of the Department of Social Work, Pondicherry University, in his welcome address, emphasized the vital role of education in preventing substance abuse and fostering a healthy, informed community and explained the relevance of this programme. Prof. A. Shahin Sulthana, the Outreach Program Coordinator, delivered the opening remarks, stressing the importance of investing in preventive measures to combat substance abuse. Mr. Velayutham, Vice Principal of the School addressed the students, underscoring the school's dedication to students' well-being and the critical need for collaborative efforts between educational institutions and broader community. The resource person Mr. Melbin Baby, Psychiatric Social Worker from the Department of Psychiatry, PIMS Hospital, Puducherry provided inputs on the health and mental health aspects of substance abuse and ways to combat it. The programme concluded with a vote of thanks by Mr. Martin, Headmaster of the School, who shared about the role of the school in the overall development and well-being of the children. He also thanked the Dept. of Social Work, Pondicherry University for organising such a valuable programme for the adolescent children. The programme concluded with the distribution of certificates to the participants.



CENTRAL PRISON VISIT

**PONDICHERRY APRIL 30,
2024**



As a part of the Student Outreach activity, the School of Law organized a field trip to the **Central Prison, Puducherry** on **April 30, 2024** for the students of LL.M. (Criminal Justice and Human Rights), PG Diploma (Criminology and Forensic Science), and MA SEAL (Integrated Five Year Program). The event was Coordinated by **Dr. Shyamtanu Pal**, Assistant Professor, School of Law. The visit aimed to provide students with firsthand insight into the functioning of the criminal justice system.

Located 7.5 km away from the University in Kalapet, the Central Prison of Puducherry is renowned as a model correctional facility. During the visit, **Mr. Bhaskar**, the **Prison Superintendent**, guided the students through various aspects of prison life, including the inmates' backgrounds, rehabilitation programs, and operational challenges. They witnessed

firsthand the agricultural initiatives, including the cultivation of fruits, vegetables, and medicinal plants, as well as poultry farming. Profits from these endeavors are channeled towards supporting the welfare and education of inmates' families. The prison boasts a medical facility staffed by a physician for two hours each day and a workshop area sponsored by NGOs like the Aurobindo Society, where inmates engage in productive activities such as spinning and weaving, aimed at their rehabilitation. Additionally, a jail bakery, supported by the Sri Aurobindo Society, has been operational for six months, providing snacks and juices to inmates.

Students were granted access to the various sections of the prison, including separate cells for convicted and undertrial prisoners, a library known as the Human Library, and facilities such as a tailoring station, radio station, and gym. They also learned about the dedicated female ward as well. The visit provided students with a unique opportunity to gain practical insights into the functioning of a correctional facility and the challenges faced by both inmates and prison authorities. It was an enriching experience that deepened their understanding of the criminal justice system and its complexities.

“Centre for Women’s Studies, celebrated International Women’s Day 2023”

The Centre for Women’s Studies, Pondicherry University, celebrated International Women’s Day at the J N Auditorium. Prof. Gurmeet Singh, Honorable Vice-Chancellor of Pondicherry University, graced the occasion with his presence and inaugurated the function.

Dr. Aashita, Head (i/c) of the Centre for Women’s Studies, welcomed the gathering and briefed about the importance of women’s day celebrations in Indian Society. She mentioned that Women’s Day is one occasion where we can rejoice and celebrate woman and womanhood. It also needs time to dismantle the deep-seated patriarchal constructs that still restrict women from living the lives they want. She also mentioned that as a part of the celebrations, the Centre for Women Studies organized various competitions for the faculty, non-teaching staff, research scholars, students, and sanitation workers of Pondicherry University.

During his inaugural address, Honorable Vice-Chancellor Prof. Gurmeet Singh wished everyone a delighted Women’s Day and emphasized the need to create a society and culture where all women of the world are given their due rights. His speech primarily focused on the importance of bringing up a child with values. He insisted on educating the boys and making them more gender sensitive. He congratulated the team of the Centre for Women’s Studies for organizing a series of events on the occasion of Women’s Day.

In his talk, Prof. K Tharanikkarasu, Director (i/c), Studies Educational Innovation & Rural Reconstruction (SEI&RR), insisted that women would be happier if men celebrated this day. He stressed how womanhood must be observed daily and how their everyday contributions require more acknowledgment and appreciation.

During the felicitation address, Prof. Rajneesh Bhutani, Registrar (i/c), Pondicherry University, stressed the importance of women empowerment and gender equity for a sustainable society.

Professor B.B. Mohanty, the Dean of the School of Social Sciences and International Studies, congratulated the Centre for conducting such events. He emphasized how treating women and girls the right way can lead to a prosperous and happy society.

Some of the senior Faculty members, like Prof. Nalini J Thampi, Prof. Mumtaz Begum and Dr. Regina Sharmila Dass, shared their views on being a woman and how they witnessed progress in Society when it comes to the advancement of women in Society.

The cultural highlight of the event was an outstanding dance performance by Mrs. Shruti Myvannan Chokshi on the theme “Raksheeka – the Protector.” A short documentary titled “Celebrating Womanhood,” filmed by the Centre for Women’s Studies Post-Graduation students, was screened and received well by the audience. As a social experiment, the students went around the campus asking questions to the students and staff and made a beautiful compilation of what comes to each mind when they take a moment to think about womanhood.

It was followed by the distribution of prizes for the various literary events and sports, and fun activities that were conducted in the first week of March for the women sanitation workers, research scholars, students, and teaching and non-teaching staff of the University. The events’ coordinators were also honoured with tokens of appreciation for supporting the Centre in making the celebration a success.

This week-long International Women’s Day celebration by the Centre for Women’s Studies of Pondicherry University was a big success. A vote of thanks by Dr. Kalaiselvi K. T. concluded the function.

Two special film screenings organised as a part of International Women's Day 2023 on 10th March 2023 conducted by Dept. of Electronic Media and Mass Communication.





“Centre for Women’s Studies organized a three days Sensitization Programme on “Youth Leadership Development & Social Justice” in collaboration with RGNIYD”

The Centre for Women’s Studies, Pondicherry University, the NSS unit of Pondicherry University, Puducherry organized a Sensitization Programme in collaboration with **Rajiv Gandhi National Institute of Youth Development (RGNIYD)**, Sriperumbudur on “Youth Leadership Development & Social Justice” from Pondicherry University.

Dr. Aashita, Head (i/c), Centre For Women's Studies, Pondicherry University welcomed the gathering. Prof. B. B. Mohanty, Dean of School of Social Sciences and International Studies, delivered the inaugural address wherein he emphasised on the need of such programmes for the betterment of youth who are the real agents of positive change in society. It was followed by felicitation address by Mr. Sathish Kumar, State NSS Nodal Officer, Puducherry.

Mrs. Sargunam, Consultant, Life Skills Management, Chennai who spoke on various aspects of life skill management including effective communication, time management, problem solving among others. The second session on "Constitutional Rights for Marginalized" was expertly handled by Dr. Gurminder Kaur, Head(i/c), School of law, Pondicherry University, where in she talked about the importance of law, its proper implementation, challenges to proper implementation, the various loopholes, strategies to employ to efficiently take use of the laws and policies. The afternoon session began with the speaker Dr. Aashita, Head (i/c), Centre for Women's Studies, Pondicherry University who spoke on the topic 'Youth as Agents of Gender Equality'. She discussed about gender roles, gender stereotypes, influences of gender socialization and how youth continue to remain one of the most influential agents of bringing in gender equality in the society. The next speaker was Prof. D. Sultana, Dept. of Physical Education & Sports, Pondicherry University. Who discussed about 'Yoga & Meditation' for youth with a practical session on yoga.

Prof. G Palanithurai (Rtd.), Department of Political Science and Development Administration, Gandhigram Rural Institute, Dindigul. He spoke on the importance of decentralization of

power, ways to achieve economic growth for India among other relevant themes. It was followed by ideas shared by other resource persons such as Mr. Arul Rajesh, Panchayat president, Muthukapatti village who spoke on 'Developing Role models in Panchayati Raj Institution'. The next speaker was Mr. Varadharaj, Panchayat vice president, Muthukapatti village who spoke about the challenges faced while doing his job and how he overcame it. Mr. Selvaraj, Youth Volunteer, Kambur village stated that by involving the youth in Gram Sabha, we can bring a positive change to our society. Mr Sivarasu, Panchayat President, Prathampuram village was the next speaker who focused on 'Developing role models in Panchayati Raj Institutions'. The next speaker was Prof. G. Palanithurai who shared his views on youth volunteerism in democratizing the community through local governance. The last session of the second day was by Prof A. Shahin Sultana from the Department of Social Work, Pondicherry University who spoke on 'Positive Youth Development'.

Mr. Sathish Kumar, State NSS Nodal Officer who told the young participants about the social responsibility of the NSS. This was followed by the talk by Prof. Latha Abel, Principal, Nursing College for Women along with Mr. Jayakumar, District Coordinator, ICDM, Villupuram who shared their ideas on role of youth in disaster management and also the various gender issues arising in disaster situations. Prof. R. Nalini, Department of Social Work, Pondicherry University was the last speaker of the day. She along with her colleague Dr. Iftekhar Alam who emphasised on the usage of community based peer led interventions and the role of youth in the same.

The Valedictory Session began with the University Anthem. The Welcome Address was by Dr. Santhosh Mathew, Programme Officer, NSS, Pondicherry University. Prof. K. Tharanikkarasu, Director (i/c), SEI&RR, Pondicherry University delivered the Valedictory address in which he mentioned about leadership qualities, importance of education and he concluded with the message that we need to bring positive change in the mind-set of the youth. Dr. Aashita, Head (i/c) of Centre for Women's Studies read the report of three days sensitization programme which was followed by honouring Vimala and Arjunan, social workers. The Vote of thanks was delivered by Dr. C. Satheesh Kumar, Programme Coordinator, NSS, Pondicherry University. The session ended with the National Anthem and distribution of participation certificates to the eligible participants. The sensitization programme was a huge success.



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“World Oral Health Day

Department of Management at Pondicherry University Community College (PUCC) in collaboration with other national programs NTCP, RSSK, colleges and organizations partnered with National Oral Health Programme – the NOHP Cell Puducherry to celebrate the **“World Oral Health Day”** with a **“Walkathon” – Be proud of your mouth**. The “Walkathon” was flagged off by **Dr. O. Kavipriya**, State Nodal Officer for the National Oral Health Programme, Puducherry from Gandhi Statue & the walkathon went via Bussy Street, M.G. Street, J.N.Street, Mission Street, St. Ange Street & ended at Gandhi Statue on the Beach Road.

Twenty five students from the Department of Management (PUCC) accompanied by faculty members Dr.A.Bharathy & Dr.R.Venkatajalapathy participated in the “Walkathon”. The aim

was to spread the message for the year 2023 **“Focus on the importance of caring for your mouth at every stage of life”**. The students participated with full energy and enthusiasm carrying placards with the messages to spread awareness on the event of the **“World Oral Health Day”**.



“GENDER SENSITIZATION PROGRAMME” – March 28, 2023

The Department of Management at Pondicherry University Community College organized a Gender Sensitization Programme with a special address on the topic **“Youth, Crimes, Law & need to be Self Disciplined by Dr. Vidya Raamkumar, Chairperson of Dowry Prohibition Advisory Board, Government of Pondicherry. Prof. Lalitha Ramakrishnan Principal (i/c), Pondicherry University Community College** presided over the Programme. The aim was to sensitize young boys and girls on crimes & law relating to gender inequality, women, especially cybercrimes that is increasing at an alarming rate among youth in the society.

The guest speaker highlighted during her lecture the various types of cybercrimes, sexual harassment, problems faced by youth, domestic violence, laws for the affected, role of institutions like Child welfare Committee, Juvenile Justice Board and how young minds should develop courage to discuss issues with the right person for remedy and restitution. She also mentioned about Helpline numbers like 1031, 1091, 1098 as most important that everyone needs to be aware off.

Prizes were awarded to winners of essay and poster competition that was organized in this connection. Vote of Thanks was proposed by **Dr. A.Bharathy** Assistant professor & Head(i/c) of Department of Management and the event was coordinated by the faculty members in the department – **Dr. C. Arjunan, Dr. R.Sathiyamoorthy and Dr. Venkatajalapathy.**



Blood Donation Camp

A blood donation camp was organised by the Directorate of Distance Education of Pondicherry University, in collaboration with Indira Gandhi Government General Hospital and Postgraduate Institute. This event saw almost 300 people come forward to donate blood on campus. This included students, faculty and even the most security personnel of the university. This event had begun in the morning and went on almost till afternoon.

The OSD of Culture and Cultural Relations, Prof. Rajeev Jain, inaugurated the camp and said "Blood donation is the best gift one can give to the mankind. It should help the younger generation to develop their social values." Dr Diana Sharmila, Chief Medical Officer, Department of Transfusion Medicine of Indira Gandhi Government General Hospital who was instrumental in this collaboration said that "there was a good response by the officials, teaching staff and students of the university to donate blood and a large number of blood bags were collected in the camp. The interested donors were physically examined before donation. It is a great initiatives taken by Pondicherry University".

"It is a hectic task to organise the event however it gives me great satisfaction that I can do something for the society. Every person who is fit and well to do should donate blood. I feel great that I am able to contribute for this noble cause," said Dr Arvind Gupta, the Director of the DDE of Pondicherry university.

The students after the donation of blood were treated with juice, biscuits and Donors Certificates were advised to consume fluids in order to make up for the loss of fluids from their body.

We were overwhelmed to see the response of the students and the other members of the university for this camp," said the doctors from the blood bank. Understanding the moral and social responsibility of the institution in view of the huge demand for life saving blood in the city, the vice chancellor of Pondicherry University, Prof Gurmeet Singh took the initiative of conducting this blood donation camp, said Dr Gupta. He further said "We are hoping that by

conducting these camps students will be aware of the benefits of blood donation and how a unit of blood can save four lives."



A Three day National Workshop on Leading Healthy Lifestyle and Improving Self: Physical & Mental in its campus at Lawspet between 8th March and 10 March, 2023

The Department of Physical Education and Yoga, Pondicherry University Community College had conducted A Three day National Workshop on Leading Healthy Lifestyle and Improving Self: Physical & Mental in its campus at Lawspet between 8th March and 10 March, 2023. This workshop was collaborated and funded by the Rajiv Gandhi National Institute of Youth Development (RGNYD), Sriperumbudur. This workshop is creating awareness on essential to promote and correct lifestyle in order to maintain and promote health. The activity is promoting health and providing public health of the most important bases for the development of youth communities. The inaugural was presided over by the Principal of Pondicherry University Community College, **Prof. Lalitha Ramakrishnan**. The workshop inaugurated by **Prof. Shibnath Deb**, Director, Rajiv Gandhi National Institute of Youth Development Guest of honour **Smt. Padma Jaiswal**, IAS, Secretary to E-Governance and ICT, Government of Puducherry and Special Guest **Dr. B. N. Padmaja Priyadharshini**, Entrepreneur and Managing Director of HomePlanGuru Pvt. Ltd. Welcome Address Delivered by **Dr. R. Murugesan**, Assistant Professor & Head (I/c) Dept. of Physical Education & Yoga and the Scope of the workshop was delivered by the Programme Co-ordinator **Dr. S. Jagadeeswari**, Assistant Professor, Dept. of Physical Education & Yoga, PUCC. The programme had started with 130 participants from different colleges Puducherry and Tamilnadu.

Prof. Shibnath Deb, Director, Rajiv Gandhi National Institute of Youth Development, Sriperumbudur delivered a Chief Guest Address and he overwhelmed the importance of youth's physical & metal health for the future India.

Smt. Padma Jaiswal, IAS, Secretary to E-Governance and ICT, Government of Puducherry, delivered a Guest of honour's Address and she talked about the importance of leading healthy

lifestyle through mental health. She interacted with the participants about need and urge of healthy life being and wellness. And she discussed the importance of physical activity and yoga.

Dr. S. Jagadeeswari, Assistant Professor, Dept. of Physical Education & Yoga, PUCC has delivered a vote of thanks.



One day Career Visioning event “Udyog Utsav, 2023” (Seventh Edition) for underprivileged Girl Children studying in Government Schools of Puducherry.

The Dept of Social Work, Pondicherry University and Project Puthri organized a One day Career Visioning event “Udyog Utsav, 2023” (Seventh Edition) for underprivileged Girl Children studying in Government Schools of Puducherry. The programme was organized at the Auditorium, Convention Cum Cultural Centre, Pondicherry University. The Welcome Address was delivered by Dr. K. Anbu, Head (i/c), Dept of Social Work where he formally welcomed the dignitaries and thanked the Vice Chancellor Prof Gurmeet Singh for gracing the occasion and Dr. Saundarya Rajesh, Managing Trustee, Avtar Human Capital Trust for collaborating with the Dept. He thanked the Programme Coordinator Prof. A. Shahin Sultana for coordinating this programme and all faculty, all participants for gracing the occasion.

Dr. Saundarya Rajesh delivered the Opening remarks by thanking the Hon’ble Vice Chancellor for supporting the event and gracing the event with his presence, then explained the objectives of the programme and thanked the Dept, Program Coordinator, the schools, teachers, children and all the collaborators for this event. Prof Gurmeet Singh appreciated the Dept of Social Work and Puthri for coming together and coordinating such an event. He emphasized the importance of the Mother tongue and how learning in the mother tongue has many advantages and appreciated the programme for attending to the needs of the school children and in addition the girl children which is very pivotal at this juncture. He thanked both the event organisers and expected that more such events would come in the near future and assured full support to such events. He appreciated the way the programme is being coordinated with more than 300 school children from government schools in Puducherry.

Then the Educational Institutions were honoured for their commendable support and achievements followed by awarding the Puthris with scholarships. This was followed by the concluding remarks by the Program Coordinator Prof A. Shahin Sultana, Professor, Dept. of Social Work who explained how this programme was worked out with Puthri team and the

Dept of Social Work and how the career visioning for the school children was necessary at this juncture and how resource persons were brought in from different streams to create awareness for the schoolgirls. She thanked the Dept, Puthri, the delegates and participants and schools for being a part of this programme. With this, the Inaugural Programme came to end. The Sessions were then rolled out to action by the resource persons accordingly. The programme was successfully concluded.



A Five-day Training of Trainers program for “Child Protection & Child Rights in Disasters and Emergencies” at Cultural Cum Convention Centre, Pondicherry University.

The Department of Social Work, Pondicherry University and National Institute of Disaster Management, Ministry of Home Affairs, Government of India is organizing a Five-day Training of Trainers program for “Child Protection & Child Rights in Disasters and Emergencies” at Cultural Cum Convention Centre, Pondicherry University. Dr. K Anbu, Head (i/c), Department of Social Work welcomed the gathering and thanked the dignitaries and NIDM for collaborating with the Dept.

This was followed by Dr.Kumar Raka, Senior Programme Officer, CCDRR, NIDM, who delivered the opening remarks. He explained the need for the training programme and appreciated the University, Department of Social Work and the Project Coordinator, Training Program for coordinating this program. This was followed by Professor B.B Mohanty, Dean, SSSIS who appreciated the Dept. of Social Work and the team for organising this timely initiative and many others from time to time.

Then the Director (SEI& RR) Prof. K Tharanikkarasu explained the need for this programme. He appreciated all the government departments for having sent their representatives to attend and learn from the resource persons who have expertise in this subject which is very important. Shri Ranjan Kumar from CCDRR, NIDM spelled out the objectives of the programme. This was followed by Prof. A Shahin Sultana, Project Coordinator, Training Programme who thanked the Vice Chancellor, Director, and all other dignitaries, participants, staff and scholars for the successful coordination of this programme. This five day programme has officials and representatives from Department of Health and Family Welfare, School Education, Fire Service, Revenue and Disaster Management, Women and Child Development, Labour, Aapda Mitra, Adi Dravidar Welfare Department and many more. Around 70 to 75 participants participated in the five day Trainers of Training programme.



A two day sensitization workshop on “Girls Lead Girls- A holistic self-defence program” organized by the Department of Biochemistry, Pondicherry University Community college

The Department of Biochemistry, PUCC in collaboration with Trust for youth and child leadership (TYCL) organized a two day woman sensitization workshop on “Girls Lead Girls- A holistic self-defence program” in commemoration of International women’s day 2023 to girl’s students of science. The awareness programme was started with University Anthem followed by Welcome Address by Dr. D. Varalakshmi, Assistant Professor, Department of Biochemistry, PUCC. The Presidential address was delivered by Prof. Lalitha Ramakrishnan, Principal (i/c) of this college. Ms. Yuvayazhini, Associate Director, TYCL and her team members enlightened the women’s fundamental rights, safety and self-defences viz. Physical, Emotional, Sexual, Online, Intellectual, Economical, Socio-Legal and Socio-Cultural self-defences. The students were asked to fill the questionnaire given by TYCL after the end of the session thereby pre and post interactive session addressed the queries of students and clarified their doubts pertaining to self-defence. The notion of this sensitization program is to empower the girls as it is the need of the hour and they are the backbone of developing society. The programme was fully sponsored by TYCL. Certificates were distributed to the participants by TYCL. Dr. M.Tharaheswari, Head (i/c), Department of Biochemistry proposed vote of thanks. The workshop ended with National anthem.



Drug Free Puducherry Campaign Community Based Initiatives of Student Peer Educators on Substance Abuse Prevention



Department of Social Work
Pondicherry University
&
Ministry of Social Justice and Empowerment
Drug Free Puducherry
Campaign

COMMUNITY BASED INITIATIVES OF STUDENT
PEER EDUCATORS ON SUBSTANCE ABUSE
PREVENTION

Location	Date	Programmes
Gudalur	18.11.2022	Rangoli Competition
Governments	15.11.2022	Rangoli Competition Awareness programmes
Velamangal	04.01.2023	School awareness programme Thematic competitions
Salemangal	05.01.2023	School awareness programme Thematic competitions
Salemangal	09.01.2023	School awareness programme Thematic competitions
Beddendukuchi	04.01.2023	Rangoli Competition Awareness programmes
Neelambakkam	07.11.2022	Rangoli Competition
Neelambakkam	08.01.2023	School Awareness programme Thematic competitions

KAP survey, identification of positive student leaders: ongoing since 18/11/2022 on holidays

Prof. R. Nalin
 Principal Investigator

Dr. Bhaskar Alam
 Co-Principal Investigator



Leading our generation to a healthy, peaceful, and happy Drug Free - Puducherry

Posted On: 06 JUN 2023 1:48PM by PE Channel

The community-based student peer educators' sentiments for a healthy Puducherry echo the objectives of the project "Towards a Drug Free Puducherry District" – a community-based project jointly undertaken by the Department of Social Work, Pondicherry University and Ministry of Social Justice and Empowerment (MoSJE), Government of India under Nasha Mukti Bharat Abhiyaan. Launched on 6th April 2022, over a period of 12 months, the project sensitised faculty and students from higher educational institutions in Puducherry against substance abuse and alcoholism in Puducherry District. As part of the project, students from 10 higher educational institutions in Puducherry were trained as peer educators to mobilise women, youth, and at-risk groups in local communities to address the substance use-related issues faced by community members and to aid them in accessing psychosocial support services.

The villages of Priyakalapet, Solainagar, Keshupanikalpattu, Kottaimedu, Melthirukanthi, Svaranthagan, and Kerkloor were selected for peer-led interventions in this phase of the project. Between December 2022 and April 2023, the students organized a series of activities in these communities such as awareness programmes, focus-group discussions with women, youth and self-help group (SHG) members, health awareness sessions, sports and rangoli competitions, and household KAP (knowledge, attitude, and practice) surveys.

The student peer-educators were felicitated by Prof. Gurmeet Singh, Hon. Vice-Chancellor of Pondicherry University and Prof. B.B. Mohanty, Dean, School of Social Sciences and International Studies, Pondicherry University. Prof. R. Nalini, Principal Investigator provided a brief summary of the project's major achievements. Professor Gurmeet Singh, Hon. Vice-Chancellor, Pondicherry University delivered the presidential address and tabled the project report for the period April 2022-March 2023. Felicitations were offered by Professor B. B. Mohanty and Dr. K. Anbu, Head (i/c) Department of Social Work, Pondicherry University.

The dignitaries distributed the certificates and medals to the student peer educators in recognition of their work and achievements in their communities. Dr. Itelchar Alam, Assistant Professor and Co-Principal Investigator offered the vote of thanks. The felicitation programme was organized to recognize and commend the potential of youth in Puducherry under the Nasha Mukti Bharat Abhiyaan campaign towards reducing the demand for drugs, especially among children and youth for the creation of a healthy and youthful Puducherry.



<https://www.thehindu.com/news/cities/puducherry/student-peer-educators-in-project-against-drug-abuse-felicitated/article66938276.ece>

International Coastal Cleanup Day – 2023

The National Centre for Coastal Research under the Ministry of Earth Sciences, Government of India observed the International Coastal Cleanup Day on 16 September 2023 jointly with Pondicherry University, Oulgaret Municipality, and the Association for Promoting Sustainability in Campuses and Communities.

Prof. Tharanikkarasu, Director (SEI&RR) of Pondicherry University, and Shri. A. Sureshraj, Commissioner, Oulgaret Municipality, Government of Puducherry flagged the rally from Pondicherry University campus preceded by a pledge to save the coastal environment. The communities from the surrounding Kalapet region enthusiastically engaged in coastal cleanup along with the students, researchers, and faculties from Pondicherry University and other educational institutions.

Approximately 250 participants collected 500 kgs of waste on the coast stretching nearly half a kilometer with an estimated amount of 60% of plastic waste. The event raised good awareness among the public on the littering of waste.



Dr. K. Tharanikkarasu (Director, Pondicherry University), Thiru. A. Sureshraj (Commissioner, Oulgaret Municipality), flagged the rally and International Coastal Cleanup Day 2023 in the presence of Prof. D. Ramamoorthy, Prof. R. Arun Prasath, Dr. C. Satheesh Kumar (NSS coordinator), Dr. M. Nandhivarman (Coordinator, Green Campus), Shri. Jaishankar (Municipal Health Officer), Thiru. S. Sudalai, with Executives from the Association for Promoting Sustainability in Campuses & Communities.

PONDICHERRY UNIVERSITY CELEBRATES AN INTERNATIONAL ZERO WASTE DAY

The Department of Management Studies (DMS) organized “**Pledge cum Rally**” – Pre-Synapse event to promote the Synapse theme of 2023 “**Transition to Net Zero Economy**”. This theme also coincides with United Nations “Zero Waste Day” observed. Synapse is the flagship institute industry interface event of DMS where in CEOs, entrepreneurs and leaders are invited to interact with young and inspiring minds to discuss the top contemporary topics in the business world.

The pledge was administered and rally was flagged off by the Honorable Vice-Chancellor **Prof. Gurmeet Singh**. This event created awareness among the student community to reduce carbon emission and to move towards carbon neutral world. Speeches were given by faculty members and students on Sustainable Development Goals to create sustainable and green campus. While addressing the gathering, Prof. Gurmeet Singh highlighted the need for sustainable life, reducing carbon emission and striking balance between human and nature for a better happy future. Mr. A. Shriram, Student Chairperson, spoke on Transition to Net Zero economy and suggested to take “Bhutan” as a model for carbon negative country and India should take steps towards creating net zero economy.

The Dean School of Management, the HOD of DMS, faculty coordinator, green campus coordinator, faculty members, MBA students and scholars took the pledge and participated in the rally. The event was sponsored by an NGO, Association for Promoting Sustainability in Campuses and Communities (APSCC).



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A Two-Day National Conference on "Indian Agriculture @75"

Department of Economics, Pondicherry University organized a Two-Day National Conference on "Indian Agriculture @75". Prof. Gurmeet Singh, the Honourable Vice Chancellor of Pondicherry University inaugurated the seminar, and Prof. L. Venkatachalam, Director, Madras institute of Development Studies gave the key not address. In his inaugural address, the vice chancellor gave a brief account of agricultural planning and how our country achieved the targets well in advance than the actual plan, how has the country progressed from being dependent on other countries for food and becoming self-sufficient. He also highlighted the fact that food production in India has increased to an extent that our country is able to extend support to other countries whenever there is a crisis or calamity,etc. Prof Venkatachalam spoke about different theoretical approaches, and highlighted upon the issues concerning agriculture such as over exploitation of ground water, use of chemical pesticides and fertilizers, lack of post-harvest facilities etc. A number of faculty members, scientists and research scholars are presenting papers on various themes relating to agriculture. Dr. R. Sendhil, a reputed agricultural economist, and Dr. V. Sivasankar, are the convenor and co-convenors of the seminar.



One Week High End Workshop (Karyashala) on “Awareness on Sustainable Energy Management & Harvesting Techniques” in Pondicherry University.

The Department of Green Energy Technology of Pondicherry University in association with the Science and Engineering Research Board (SERB-DST) organised a One Week High End Workshop (Karyashala) on “Awareness on Sustainable Energy Management & Harvesting Techniques” in Pondicherry University. Prof. K. Tharanikkarasu, Director(SEI&RR) inaugurated the workshop and emphasized the fact that energy was essential for sustainable development of any country and resources from fossil fuel were unsustainable and responsible for global warming. He also discussed the use of renewable energy sources to fulfil the energy needs of the country. The life of commercial energy sources like oil, coal and gas was likely to be exhausted by 2040 at the present rate of consumption, which was 10 times less than developed countries. Nearly 400 million people in India did not have access to electricity, and 80% population in rural areas used biomass to meet their cooking needs, he added. He concluded positively saying that we should focus towards an energy independent India by 2040.

During the workshop, a series of lectures and hands-on training sessions covered diverse and advanced fields of research—materials for sustainable energy harvesting techniques, current status and challenges of solar cells, hydrogen production, application of AI in smart grid integration, vibration energy harvesting, wind energy as well as hybrid engines.

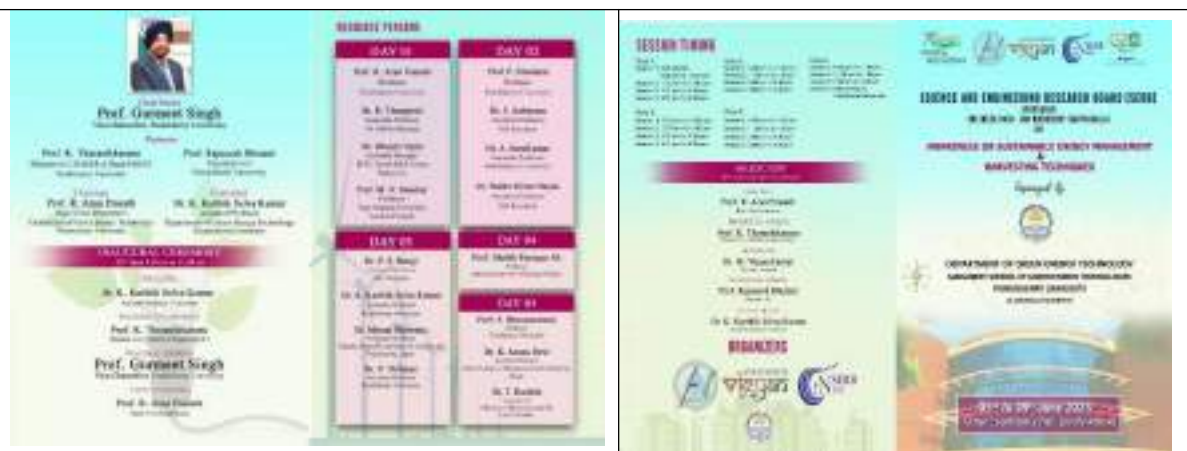
The idea of this Karyashala is to explore ways to promote the development and use of sustainable energy without disrupting the environmental and social fabric of our nation. Putting the focus on green technologies specifically designed for developing nations like India is the best investment for the sustainable future”, said Dr. K. Karthik Selva Kumar, Assistant Professor & Convenor of the Karyashala.

In his valedictory address, Prof Rajneesh Bhutani, Registrar, stated that “the efficiency of renewable energy may be impacted by climate change in the Indo-Gangetic plains. The Karyashala emphasises the importance of being prepared for scenarios of this kind and addressing it. Felicitating the event, Dr. M.Vijayakumar, University Librarian said

that “renewable energy technologies have become increasingly important as the world faces the challenge of mitigating the negative impacts of climate change and reducing the dependence on finite and polluting fossil fuels. The use of renewable energy sources has been recognized as a key factor in promoting sustainable development, which aims to meet the needs of the present generation without compromising the future. These types of workshops will explore the role of renewable energy technologies in sustainable development and their potential to contribute to a more sustainable future.” Dr. R Arun Prasad, Head, Department of Green Energy Technology, welcomed the gathering.

Over 20 international and national resource persons from 8 states across India and 2 countries delivered talks and participants included researchers from higher education institutes like IITs, NITs, Central and State funded universities in the field of material science, renewable energy and green technologies.

The workshop served as a bridge between the academic community (faculty and research students), practitioners and policymakers.



Invitation – Launching of Programme “Nasha Mukh Bharat Abhiyaan” – Department of Social Work

Pondicherry university, school of social sciences and international studies, department of social work in association with ministry of social justice and empowerment government of india Launches Nasha Mukta Bharat Abhiyaan towards a Drug Free Puducherry District: Preventive Education, Outreach and Support among Higher Educational Institution Personnel and At-Risk Communities in Puducherry District, Puducherry UT.





The Department of Social Work, Pondicherry University in association with the Ministry of Social Justice and Empowerment (MoSJE), Government of India invites the press to the launch of “Towards a Drug Free Puducherry District” on Wednesday, 6th April 2022 between 10:30 A.M and 1:00 P.M via Google Meet. The project will be launched under the Ministry of Social Justice and Empowerment’s flagship Nasha Mukta Bharat Abhiyaan or ‘Drugs-Free India Campaign’ and will be implemented by the Department of Social Work, Pondicherry University. It aims to address and prevent substance use among children, youth and at-risk communities in Puducherry District through a series of education, capacity building, and community outreach programmes for students, faculty and staff of higher education institutions and community workers. Ms. Radhika Chakravarthy, Joint Secretary, Department of Social Justice and Empowerment and Director (Drugs Prevention), MoSJE, Government of India will formally launch the Nasha Mukta Bharat Abhiyaan project. Prof. Gurmeet Singh, Honourable Vice-Chancellor of Pondicherry University has kindly consented to deliver the presidential address. The inaugural programme will be addressed by Thiru. C. Udaya Kumar, I.A.S., Secretary to the Government of Puducherry (Social Welfare), Prof. B. B. Mohanty, Dean, School of Social Sciences and International Studies, Pondicherry University and Prof. Basant Kumar Tiwary, Dean (Research), Pondicherry University. Sponsored by the Ministry of Social Justice and Empowerment, the 12-month Nasha Mukta Bharat Abhiyaan project will address the problems of alcoholism and drug addiction, particularly among the youth. It will map local communities, build community workers’ capacities for substance use prevention, and provide support services to affected individuals and their families. The Department of Social Work, Pondicherry University will also collaborate with higher education institutions, local non-governmental organizations, and healthcare facilities to provide psychosocial support services

for substance users. Through the project, a directory of de-addiction and rehabilitation service providers will be developed to meet the urgent need for community-based services to address alcoholism and substance use in Puducherry district.

Three Day Online Training Programme on Engaging Youth & Adolescents in Disaster Risk Management – Department of Social Work



Prof. Gurmeet Singh, VC released a book titled “Engaging Youth & Adolescents in Disaster Risk Reduction (DRR) and Climate Change Adaptation” edited by Prof. Shahin Sultana, Prof. Santosh Kumar, Dr. Kumar Raka and Dr. Balu.

The Department of Social Work, School of Social Sciences and International Studies, Pondicherry University and National Institute of Disaster Management (NIDM), Ministry of Home Affairs, government of India, Delhi jointly organise a five day Training of Trainers Programme on Engaging Youth and Adolescents in Disaster Risk Management and Climate Change Adaption from 19-23 December 2022.

The program is organised in the seminar hall, convention cum cultural centre, Pondicherry University.

Dr. K. Anbu, Associate Professor and Head (i/c), Department of Social Work, Pondicherry University delivered the welcome address and appreciated the support

provided by National Institute of Disaster Management and the encouragement given by the Vice-Chancellor of Pondicherry University in all the endeavours of the department. Then Dr. Kumar Reka, Programme Officer, CCDRR, National Institute of Disaster Management explained the objective of the programme and appreciated the effort taken by the department and the University during covid and afterwards as well.

Hon'ble Lt. Governor of Puducherry and Chief Rector of Pondicherry University Dr. (Smt) TAMILISAI Soundararajan graced the occasion and appreciated the Vice-Chancellor Prof. Gurmeet Singh for these initiatives as part of Pondicherry University and the department. She also thanked the National Institute of Disaster Management for their support and collaboration and other volunteers who attended this programme.

Prof. Gurmeet Singh, Vice-Chancellor, Pondicherry University congratulated the department for taking such initiatives, appreciated National Institute of Disaster Management for regularly coordinating with the University. He also appreciated all the participants who have come from NSS, NCC Bharat Scouts and Guides, Civil Defence, Volunteers, Indian Red Cross Society, Junior Red Cross Society, Nehru Yuvakendra Sangata were attended this training programme.

Dr. Balu and Shri Rajan Kumar from National Institute of Disaster Management also addressed the gathering. Prof. Shahin Sultana who is the coordinator of this research consultancy project thanked the Vice-Chancellor, National Institute of Disaster Management and all other dignitaries and volunteers for their participation.

<https://www.youtube.com/watch?v=qEQ5jwkOsrE>

A One-Day Workshop on *Role of Youth in Substance Abuse Prevention* at Pondicherry University Community College



Department of Social Work, Pondicherry University, Pondicherry University Community College & Sports Authority of India jointly organized a One-Day Workshop for the students on **Role of Youth in Substance Abuse Prevention** on 23rd August 2022. It was sponsored by The Ministry of Social Justice and Empowerment, Govt of India (Under Nasha Mukta Bharat Abhiyaan). As a part of the Project undertaken by the Dept. of Social Work, Pondicherry University titled 'Towards Drug Free Puducherry District: Preventive Education, Outreach and Support among Higher Educational Institution Personnel and At-Risk communities in Puducherry District, Puducherry UT' funded by the Ministry of Social Justice and Empowerment, the workshop was conducted to create awareness among the youngsters about the hazards of drugs. The workshop began with the University Anthem followed by Welcome

Address by Prof. Lalitha Ramakrishnan, Principal (I/C), Pondicherry University Community College. Shri. K. Vital Kumar, Centre In-charge, Sports Authority of India, Puducherry in his

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Special Address highlighted importance of sports in the reduction of addiction towards drugs and alcohol.

Prof. R. Nalini, Principal Investigator of the Project, Dept. Social Work, Pondicherry University the facts about the precarious condition of nations with its youth population under the addiction of drugs. She highlighted that Puducherry the highest ratio of alcohol

consumptions in India and alcohol conception not as a habit but as a disease. Most of the youth who gets addicted to alcohol end as criminals. Moreover her examples from life incidents enabled students to understand the danger of drugs and alcohol. Mr. Ram Kumar, Research Scholar, Pondicherry University explained the process of addiction among the youngsters, motivated and guided students through his life experience to avoid it. Dr. Iftekhar Alam, Co-Principal Investigator of the Project, Dept. Social Work, Pondicherry University explained about the treatments given to the alcoholic patients. He inspired the students by conducting quiz and concluded the speech by highlighting the responsible role of the students in creating the drug free nation. Mr. Deepan, Secretary of Thirukaanjai Manvaasanai Narpanimandram inspired the students through his act of transforming the alcoholic addicted youngster into sportsperson.

After getting awareness about the health hazards and its risks amidst the youngsters, around twelve active participants among the students of Pondicherry University Community college and SAI volunteered for further community interventions. It was mentioned that those students would be involved in a survey and data processing for which they will be suitably remunerated. From these students 6-8 will be selected for further five day intense training on 'Substance Abuse Prevention' in the coming months. As youth is the pillar of the nation, the workshop targeted the youths in order to create awareness about the danger of drug consumption. The much needed topic of the hour was dealt in detail by the Resource persons. Students were inspired and got motivated by the talk. The program concluded with the Vote of Thanks delivered by Dr. Latha Parthiban, Associate Professor, Department of Computer Science. Around 400 students, faculty members of various departments and technical team of PUCC attended the program.

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Drug Free Puducherry Campaign Community Based Initiatives of Student Peer Educators on Substance Abuse Prevention

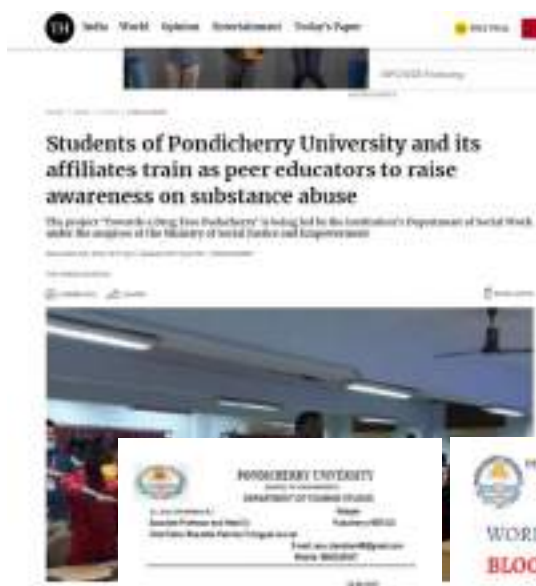


Pondicherry University's (PU) department of social work and the ministry of social justice and empowerment inaugurated a five-day training workshop as a part of their project 'towards a drug free Puducherry'.

Over 70 students from Pu and its affiliated colleges will participate in the workshop from November 1 to November 5, 2022. The aim of the workshop is to train students as peer educators to address the issues of substance abuse and addiction in their respective communities.

The students are drawn from colleges including Pondicherry University Community College, Kasturba College for Women, Indira Gandhi College of Arts and Science, Pondicherry Technological University, and Pondicherry University among others. The student peer educators will be working in their own respective home communities in Puducherry. The university held sensitisation sessions on the issues in selected colleges with 'The Role of Youth in Substance Abuse Prevention' programme between August and October 2022. Through this five-day workshop, the students supported by the faculty will be trained to raise awareness about the harmful side effects of substance abuse and addiction, mobilize community participation for drug demand reduction and prevention of substance use in the community.

The resource persons for the workshop include psychiatrists, psychiatric social workers, academicians, theatre artists, NGO heads and recovered substance abusers. The programme will be an activity-based training designed to train students through group discussions, debates, role-plays, case study analysis, peer counselling sessions, performance and street theatre etc. Pondicherry University president spoke about the dangers of addiction to drugs and alcohol and the need for youth to resist the negative influence of peers and the media regarding substance use. He noted that 'Drug-Free Puducherry is not just a goal, but it is a dream that the students must strive hard to realize.



World Tourism Day 2022 – Blood Donation

Camp

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Department of Tourism Studies

<https://www.pondiuni.edu.in/events/the-department-of-tourism-studies-organised-workshop-on-rethinking-tourism-launched-safar-tourism-innovation-and-incubation-centre-blood-donation-camp-jointly-with-jipmer-and-rotary-club-udaan/>

The Department of Tourism Studies organised Workshop on Rethinking Tourism, Launched SAFAR – Tourism Innovation and Incubation Centre, Blood Donation Camp jointly with JIPMER and Rotary Club, Udaan – Kite Fest, and Mazaa Cultural Fiesta to mark the World Tourism Day (September, 27, 2022).

Special lectures on ‘Sardar Vallabhbhai Patel and Run for Unity

As a celebration of ‘Unity Day’ to mark the birth anniversary of Sardar Vallabhbhai Patel, known for his supreme patriotism, iron will, and courage of conviction. His vital role in the Indian freedom struggle and unification of States earned him the title of 'Iron Man of India'. Unity, as a theme, forms part of the ‘Paanch Pran’, as declared by the Hon’ble Prime Minister on Independence Day, 2022. There is a weeklong celebration 2022 under the aegis of Azadi Ka Amrit Mahotsav with the active participation of all to honor the patriotism of Sardar Vallabhbhai Patel and to reinforce his teachings and values.

‘Run for Unity’ was organized at Pondicherry University Campus by the Office of the Dean, Students Welfare in collaboration with the Department of Physical Education & Sports. The Unity Run was started with flag-off by Y.Venakta Rao, Dean – Students Welfare in the Presence of Dr. G. Vasanthi, Professor & Head, Department of Physical Education & Sports and faculty and enlightened students the remarkable contribution of Sardar Vallabhbhai Patel

for the nation's unification and creation of supreme patriotism among the fellow Indians. The faculty and students of Pondicherry University, especially students of physical education have actively participated in the Unity runs across the University Campus with displaying placards. The placards had carried writeup about the Sardar Vallabhbhai Patel and his thoughts, philosophy of patriotism, courage and conviction in unifying our great nation. The Unity Run has spread message of National Unity Day to all the inmates of Campus Community.

Special lectures on 'Sardar Vallabhbhai Patel' were organized in collaboration with the Department of History at the Seminar Hall of School of Humanities. Prof. Gurmeet Singh, Vice Chancellor has emphasized the need learning courage and conviction from Sardar Vallabhbhai Patel in his presidential address. Prof. N.Rajendran, Former Vice Chancellor, Alagappa University and Prof. Venkata Raghotham, Rtd. Professor of History, Pondicherry University have delivered special lectures on Sardar Vallabhbhai Patel. Dr. Kanchi Venugopal Reddy, Head of History Department has offered vote of thank at the end of the programme.

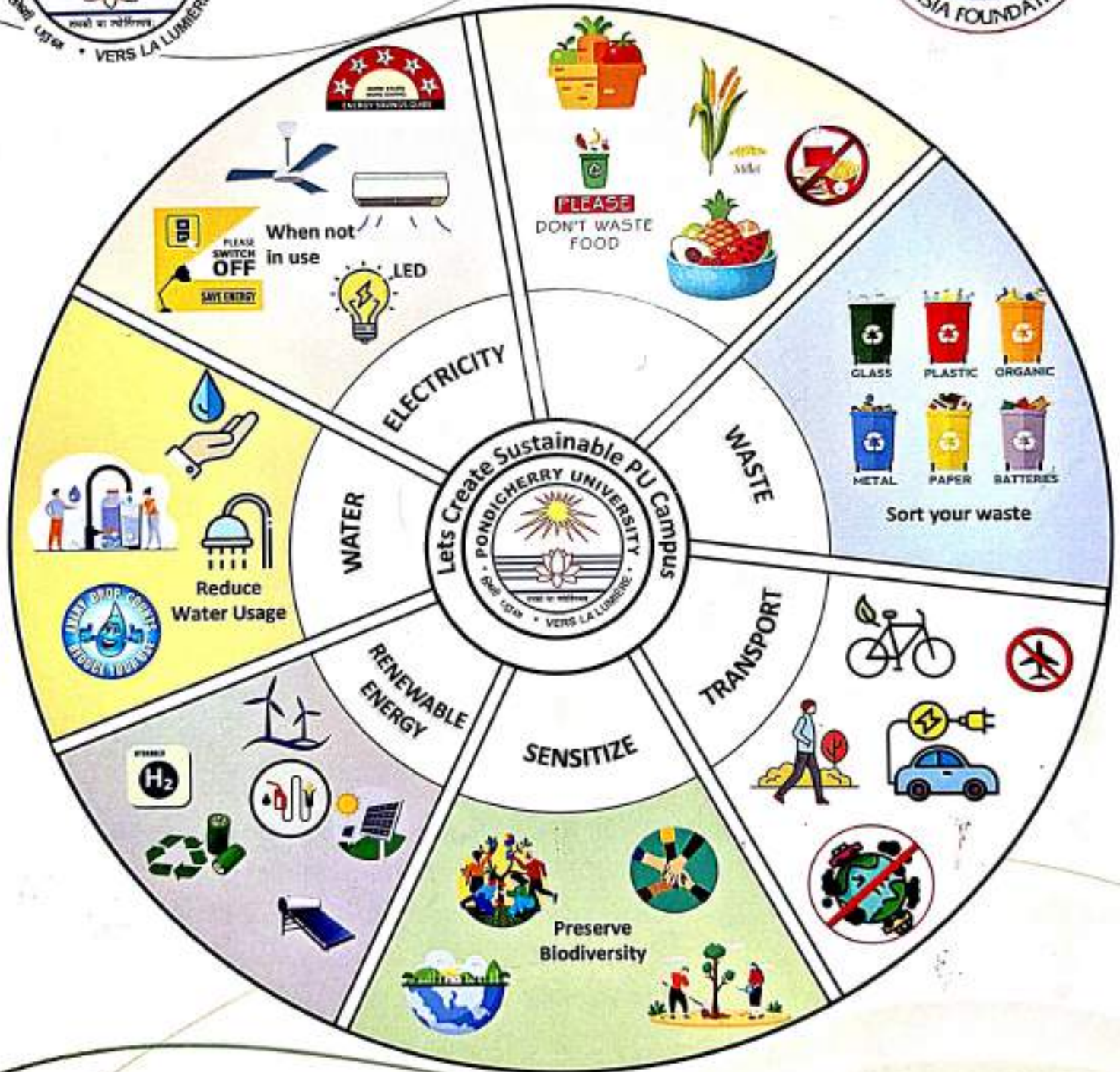


Pondicherry University Holds Workshop to Sensitize Community-Based Social Welfare Personnel and Police Authorities on Substance Abuse Prevention

A one-day workshop on 'Substance Abuse: Prevention Strategies and Psychosocial Support in the community' was organized by the Department of Social Work, Pondicherry University and Ministry of Social Justice and Empowerment. The workshop aimed at sensitizing community-based social welfare personnel and police authorities on the nature, extent and impact of substance use and abuse in the community. Around 76 participants including ANMs, ASHAs, AWWs, AW helpers, police officers, social activists, and NGO personnel drawn from ten communities in Puducherry District attended the Workshop. Dr. K. Anbu, Head (i/c), Department of Social Work, Pondicherry University, welcomed the participants. Prof. R. Nalini, Principal Investigator, 'Towards a Drug Free Puducherry' Project, briefed the participants that ten communities have been identified and community-based intervention programmes envisaged. In his inaugural address Prof. B. B. Mohanthy, Dean of Social Sciences and International Studies, emphasized the role of community-based interventions in preventing substance abuse. One of the resource persons, Dr. Partheeban, Psychiatrist, Mahatma Gandhi Medical College and Research Institute, Puducherry, deftly explained the increasing rate of substance abuse, especially among youth, and presented an impressive overview of SUD. Mr. Bharath Rathinam, Doctoral Fellow, Department of Psychiatric Social Work, NIMHANS, Bengaluru trained the participants on identification and support for at risk groups and families, Motivational Enhancement Counselling, Psychosocial support and Support System for persons with SUD in community. In her valedictory address, P. Padhmavathy, Director cum Under Secretary to the Government (Social Welfare) highlighted the Government initiatives to prevent substance abuse and distributed the certificates to the participants. Dr. Ifthekar Alam, Co-Principal Investigator of the Drug Free Puducherry Project, delivered the vote of thanks.



DEPARTMENT OF GREEN ENERGY TECHNOLOGY
Madanjeet School of Green Energy Technologies
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