



INDIAN INSTITUTE OF TROPICAL METEOROLOGY (IITM), PUNE
ENVIRONMENTAL INFORMATION, AWARENESS, CAPACITY BUILDING AND
LIVELIHOOD PROGRAMME (EIACP)
PROGRAMME CENTRE - RESOURCE PARTNER (PC-RP)
(Ministry of Environment, Forest & Climate Change, Govt. of India)

February 2025 Report:

Advancing Sustainability and Clean Energy:

IITM-EIACP Activities Report



1. Name of the EIACP Centre:

Indian Institute of Tropical Meteorology, Pune

2. EIACP Hub or Resource Partner: EIACP Resource Partner

3. Month for which report is being submitted: February-2025

4. Summary of achievement:

The IITM-EIACP Centre conducted a series of impactful activities in February 2025 under the Mission LiFE themes of sustainable living, clean energy, and environmental awareness. These initiatives aimed at enhancing skills, promoting renewable energy, and encouraging a healthy lifestyle among participants.

On February 3, 2025, a waste management session was conducted by Dr. Zigisha Mhaskar, focusing on waste segregation, composting techniques, and the 8R principles—Refuse, Reduce, Reuse, Repair, Refurbish, Recycle, Recover, and Rethink. Housekeeping workers were also felicitated with eco-friendly bags and caps, reinforcing the commitment to sustainable waste management.

Promoting health and well-being, a yoga session was organized on February 4, 2025, for GSDP Solar Enterprise Assistant Manager students. Led by Dr. Bhupendra Bahadur Singh, Scientist E at IITM, the session emphasized deep breathing, relaxation, and mindfulness, highlighting yoga's role in a healthy and balanced lifestyle.

On February 5, 2025, GSDP students showcased three innovative solar models—a solar off-grid agriculture system, an on-grid car garage and park, and a hybrid hilltop hotel with an EV charging station. These models demonstrated real-world applications of solar energy and emphasized the importance of clean energy solutions in different sectors.

Further strengthening practical learning, GSDP students began their 20-day On-Job Training (OJT) on February 10, 2025, at three leading solar firms—Agni Solar, Windsun Eco Systems, and Akshorja Alternate Energy LLP. This hands-on experience enabled them to work on solar system installation, maintenance, and design, aligning with India's clean energy goals.

These activities collectively reinforced Mission LiFE's vision of environmental sustainability, clean energy adoption, and skill development. Through workshops, training, and hands-on projects, IITM-EIACP continues to empower individuals with knowledge and practical experience to contribute to a greener and more sustainable future.

i. Activities under Environment Days/ Special days:

Sr. No.	Environment Days/ Special days	Description of event	Place/s of activity	Number of participants	Partners
1	National Science Day 2025	<p>IITM EIACP PC RP PUNE at Science Day Exhibition in Khodad, Maharashtra</p> <p>Pune, Maharashtra – Over 15,000 visitors gathered at the Giant Metrewave Telescope Observatory in Khodad, Pune district, on February 28 and March 1, 2025, for an engaging Science Day exhibition. The IITM EIACP PC RP Pune captivated a diverse audience of students, teachers, farmers, scientists, and local villagers with its innovative research projects and studies.</p> <p>A highlight of the event was the presentation of a model that demonstrates the urban canopy effect and its role in ventilating and mitigating air pollution. This project underscores IITM's commitment to addressing urban environmental challenges. Alongside live demonstrations, the team distributed a variety of informational materials aimed at educating the public and igniting interest in</p>	Khodad, Maharashtra	15,000	Giant Metrewave Telescope Observatory, Khodad, Maharashtra

science and technology.

Interactive sessions allowed students to explore career opportunities in meteorology and other scientific fields. Moreover, visitors were introduced to the seven Mission Life themes and were encouraged to take a Mission Life pledge, reinforcing their commitment to sustainable living and innovation.

The active participation of IITM EIACP PC RP not only showcased the institute's ongoing research efforts but also strengthened the vital link between scientific advancements and community outreach.

High resolution Geotagged Photos of all days celebrated.





Glimpses of National Science Day 2025

ii. Activities under plantation drive campaign “Ek Ped Maa ke Naam”

- a. **Description:** - Nil
- b. **Number of participants:** - Nil
- c. **Name of Location/s where activity was carried out:** - Nil
- d. **Partners:** - Nil
- e. **Geotagged Photos:** -

iii. Mission LiFE Activities:

- a. **Title:** Mission LiFE Awareness Session – Session on “Waste Management”

Description:

Under the Mission LiFE theme of "Reduce Waste" IITM-EIACP Centre organized a waste management session on February 3, 2025, with Dr. Zigisha Mhaskar, attended by 45 participants. The session emphasized waste segregation (wet, dry, e-waste, and medical waste) and the 8R principles—Refuse, Reduce, Reuse, Repair, Refurbish, Recycle, Recover, and Rethink—to promote responsible waste disposal.

Dr. Mhaskar introduced Pit & Windrow Composting, highlighting sustainable organic waste management, quality composting, and safety practices. These techniques align with Mission LiFE’s objective of reducing waste at the source and transforming waste into useful resources.

As a gesture of appreciation, housekeeping workers were felicitated with caps and eco-friendly bags, reinforcing the commitment to sustainable practices. The event encouraged participants to adopt mindful waste management habits, contributing to a cleaner and greener environment.

- b. **Number of participants:** 45 Students.
- c. **Partners:** -
- d. **Name of Location/s where activity was carried out:** IITM, Pune
- e. **Geotagged Photos:**



Glimpses from Mission LiFE awareness event on "Waste Management"

a. Title: Mission LiFE Awareness Session – “Yoga for a Healthy and Sustainable Life”

Description:

In line with the Mission LiFE theme of a healthy lifestyle, IITM-EIACP Centre organized a yoga session on February 4, 2025, for 20 GSDP course students (Solar Enterprise Assistant Manager). The session, led by Dr. Bhupendra Bahadur Singh, Scientist E, IITM, focused on fostering holistic well-being in a serene environment.

Dr. Singh guided participants through deep breathing techniques and "Om" chanting, creating a calming atmosphere that helped them connect with their bodies and minds. The session emphasized stress relief, relaxation, and revitalization, reinforcing the role of yoga in promoting sustainable and healthy living.

This initiative encouraged participants to integrate yoga into their daily routines, aligning with Mission LiFE’s vision of a healthier and more balanced lifestyle.

b. Number of participants: 20 students & teachers

c. Partners: -

d. Name of Location/s where activity was carried out: IITM, Pune

e. Geotagged Photos:



Glimpses from Mission LiFE awareness event on “Yoga for a Healthy and Sustainable Life”

iv. Centre specific thematic activities

- a. Title:** Nil
- b. Description:** Nil
- c. Number of participants:** Nil
- d. Partners:** Nil
- e. Name of Location/s where activity was carried out:** Nil
- f. Geotagged Photo:**

v. Awareness Campaigns /Events /Competition /Seminars/ Webinars/ Workshops

- a. Title:** National Science Day 2025 – “Solar Energy Models Demonstration”

- b. Description:**

On 28th February 2025, the EIACP Centre celebrated National Science Day at IITM, commemorating this important occasion with an open day event from 10 AM to 5 PM . The event was open to students, visitors, media personnel, and science enthusiasts from various backgrounds, providing them with a unique opportunity to explore the exciting world of science and discovery.

In line with the theme of innovation and technology, the event included a detailed explanation of the EIACP function, along with demonstrations of three types of energy-generating solar systems: on-grid, off-grid, and hybrid systems . These models offered valuable insights into how solar energy can be harnessed in different contexts. The demonstrations aimed to educate visitors on the potential of renewable energy solutions to meet the growing global demand for sustainable power.

Throughout the day, the event attracted approximately 450 visitors from institutions both near and far. The enthusiastic participation of students and professionals contributed to a vibrant atmosphere filled with engaging discussions and curiosity about the latest advancements in science and energy.

- c. Number of participants:** 450
- d. Partners:** IITM, Pune
- e. Name of Location/s where activity was carried out:** IITM, Pune
- f. Geotagged Photo:**



Glimpses of Model demonstration based on Solar Energy

vi. GSDP and Capacity Building courses

Ongoing GSDP course “Solar Enterprise Assistant Manager”:

IITM-EIACP PC-RP, Pune had started the GSDP course “Solar Enterprise Assistant Manager” on 23rd December 2024. This month along with regular lectures, IITM-EIACP conducted hands-on sessions to enhance the practical skills of GSDP Solar Enterprise Assistant Manager students. These sessions focused on solar system design, installation techniques, and software applications essential for the industry. Students worked on solar design software, Excel-based energy calculations, and real-world problem-solving exercises, reinforcing their theoretical knowledge with practical application.

Innovative Solar Models by GSDP Students

Under the Green Skill Development Program (GSDP), students showcased their creativity by developing three innovative solar models on February 5, 2025. The models included a solar off-grid agriculture system, an on-grid car garage and park, and a hybrid hilltop hotel with an EV charging station. These projects demonstrated practical applications of renewable energy for sustainable living.

The solar off-grid agriculture model focused on providing energy solutions for remote farms, ensuring uninterrupted power for irrigation and other agricultural needs. The on-grid car garage and park highlighted efficient solar power integration in urban infrastructure, promoting clean energy for vehicle charging and lighting. Meanwhile, the hybrid hilltop hotel with an EV charging station showcased sustainable hospitality solutions, ensuring energy self-sufficiency in hilly terrains.

This hands-on activity reinforced Mission LiFE’s vision of adopting clean energy solutions for a greener future. The models not only demonstrated technical proficiency but also encouraged students to think innovatively about sustainability and real-world energy challenges.





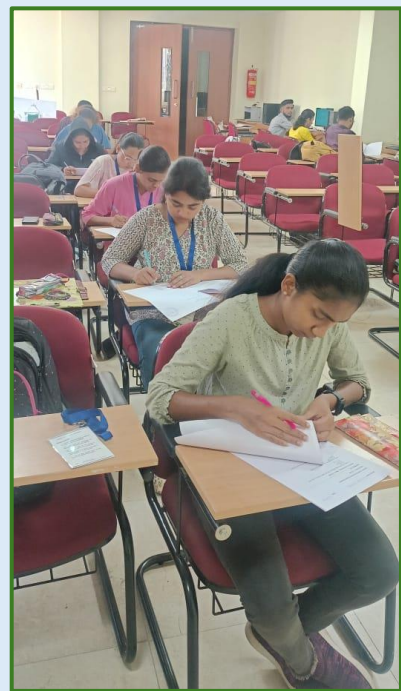
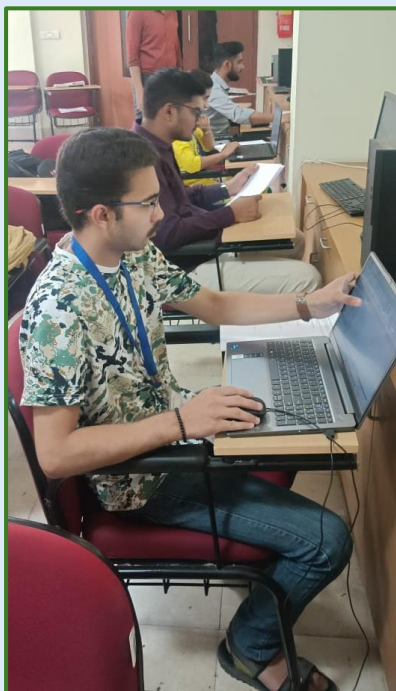
Glimpses of Innovative Solar Models by GSDP Students

Final Examination for GSDP Solar Course

On February 7, 2025, IITM-EIACP Centre conducted the final examination for the GSDP Solar Enterprise Assistant Manager course. The exam assessed students' knowledge and practical skills gained throughout the program, ensuring their readiness for the solar energy sector.

The examination included both theory and practical components. The theory exam covered all course modules, evaluating students on key concepts related to solar energy, system design, installation, and maintenance. The practical exam tested hands-on skills in solar design software, Excel-based calculations, and other essential tools used in the industry.

This comprehensive evaluation ensured that students were well-equipped with technical expertise and problem-solving abilities required in the renewable energy sector.



Glimpses of Final Examination of GSDP Solar course students

GSDP Solar Course Students Begin On-Job Training

As part of the Green Skill Development Program (GSDP) Solar Enterprise Assistant Manager course, students commenced their 20-day On-Job Training (OJT) on February 10, 2025, at three leading solar firms—Agni Solar, Windsun Eco Systems, and Akshorja Alternate Energy LLP. This hands-on training aims to provide students with practical industry experience in solar energy systems, installation, and management.

During the OJT, students will work on real-world solar projects, gaining expertise in system design, installation, maintenance, and troubleshooting. They will also learn about the latest advancements in solar technology, grid integration, and sustainable energy practices under the guidance of industry experts.

This initiative aligns with Mission LiFE's goal of promoting renewable energy adoption and developing skilled professionals for the green energy sector. By bridging the gap between theoretical knowledge and practical application, the training empowers students to contribute effectively to the growing solar energy industry and support India's clean energy transition.



Glimpses of GSDP Student's On-job training

vii. Knowledge products, if any, with link

- a. Description: Nil
- b. Photos:

viii. Development of Information Products and Mobile Apps: Nil

ix. Miscellaneous activities: Poster



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INTERNATIONAL POLAR BEAR DAY



International Polar Bear Day, observed on **February 27**, raises awareness about the environmental threats polar bears face due to climate change. As global temperatures rise, sea ice in the Arctic melts, reducing polar bears' habitat and food sources. This day highlights the need for stronger climate action to protect both polar bears and their environment. Conservation groups use the occasion to educate the public and promote efforts to combat global warming and preserve the Arctic ecosystem.

5. Recruitment or Change of EIACP Staff if any with contact numbers and qualification details: Nil

6. Updation of DRC Webpage with details: Nil