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TECHNOLOGIES FOR A BETTER TOMORROW

A CSR Bulletin by IIT Madras

India's first Centre of Excellence on Plant Cell Fermentation Technology



Producing plant-based health and wellness products sustainably remains a challenge due to limited scalable technologies. To address this, **IIT Madras**, in collaboration with **Herbalife International India Pvt. Ltd.**, has established the Herbalife-IIT Madras Centre of Excellence on Plant Cell Fermentation Technology, **India's first dedicated translational research facility** in this field.

The Centre will develop sustainable technologies to produce **herbal biomass, high-value phytochemicals, and plant-derived ingredients** while accelerating research, industry collaboration, technology transfer, and entrepreneurship. It also aims to position India as a global leader in commercial plant cell fermentation, supporting the national visions of **BioE3, Atmanirbhar Bharat**, and environmentally sustainable biomanufacturing.

Explore the Future of Plant Innovation

CSR PROJECT SHOWCASE

Building Smarter Water Systems for Tomorrow's Cities



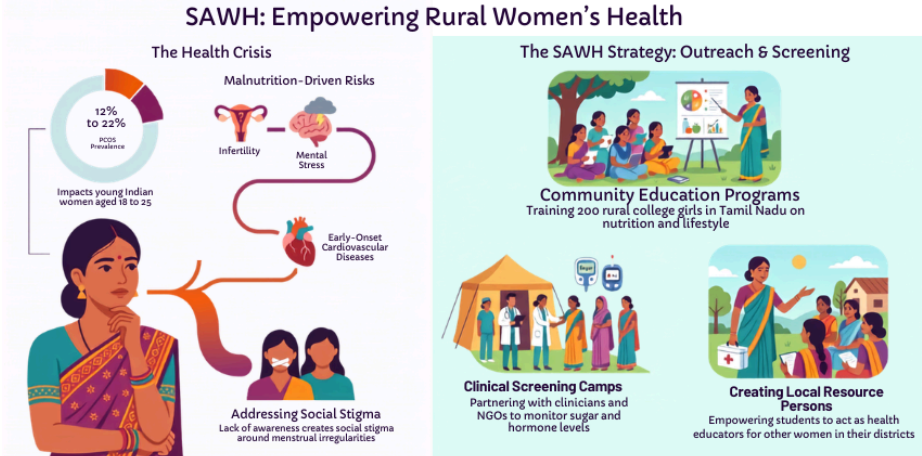
Water is one of the defining challenges of urban India. Cities like **Chennai face the dual realities of water scarcity and flooding**, making resilient water management more important than ever.

To tackle these challenges, **IIT Madras**, in partnership with **IndiGoReach**, the **CSR arm of IndiGo**, is advancing the AquaMAP Center for Water Management and Policy, IIT Madras initiative to develop a comprehensive understanding of **Chennai's urban water ecosystem**. By studying **drinking water, groundwater, wastewater, stormwater, and urban lakes** as an interconnected system, the project is generating data-driven insights for sustainable water management.

With an integrated approach to the complete urban water cycle, AquaMAP aims to improve water security, reduce flood risks, and strengthen climate resilience. While focused on Chennai today, the research has the potential to shape smarter water management strategies for cities across India.

CSR SPOTLIGHT

Towards a Healthier Future for Every Young Woman



Young rural women face a silent crisis of nutritional and hormonal imbalances, causing PCOS, infertility, and mental stress. These issues are worsened by social stigma and a lack of awareness regarding reproductive health management.

The **SAWH: Screening and Awareness of Women's Health** project by IIT Madras addresses this through **education and clinical screening**. We provide awareness on **nutrition and metabolism**, followed by diagnostic camps led by medical experts and non-profit partners.

By **training 200 college girls as community resource persons**, we create a sustainable model for early diagnosis. This Tamil Nadu pilot will scale nationwide, securing reproductive health for thousands.

Be Part of the Solution

NEWS AND EVENTS

Master AI Applications in Climate & Energy



The transition to a sustainable future depends on making smarter, data-driven decisions.

Learn how Artificial Intelligence is helping tackle real-world challenges in climate and energy at **AI in Action: Climate and Energy Systems Applications**, a three-day workshop hosted by the **AI4NetZero** team, **EnERG Lab**, IIT Madras.

Through **expert-led sessions and hands-on learning**, participants will **gain practical skills and insights into applying AI across energy systems, renewable energy, and climate solutions**.

Whether you're a student, researcher, or **industry professional**, this workshop offers the tools to turn data into meaningful impact.

What to Expect

- Foundations of data-driven decision-making
- Working with data: acquisition, curation, visualisation & storytelling
- AI applications in energy and power systems
- Climate modelling using network- and data-driven approaches
- Hands-on Google Colab tutorials with reusable datasets and examples

Register Here!

PARTNER SPEAK

"BMW TechWorks India's association with IIT Madras reflects something we believe in: that technology is most valuable when it widens access. Through AI for K-12 Educators, we are helping teachers bring responsible AI into their classrooms. Through Nirmaan, we are supporting young founders as they move from an idea to a venture. IIT Madras has been shaping India's talent for generations, and we are glad to contribute, in our way, to that enduring work."



Mr. Aditya Kherra
Chief Executive Officer,
BMW TechWorks India

We would love to hear from you!

We trust you enjoyed perusing our CSR Newsletter Bulletin!

Do get in touch and let us know your thoughts. We look forward to hearing from you!

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