



TECHNOLOGIES FOR A BETTER TOMORROW

A CSR Bulletin by IIT Madras

DRIVING INNOVATION FOR A SUSTAINABLE TRANSPORTATION FUTURE



IIT Madras has anchored the '**Mobility and Intelligent Transportation**' (MInT) collaborative towards building a **global mobility digital infrastructure**. MInT is a global initiative to build mobility digital infrastructure, an R&D portfolio and a skilled workforce to develop breakthrough mobility solutions to realize **Sustainable Development Goals (SDGs)**. MInT leverages the ongoing collaborations fostered by IIT Madras with **corporate partners like Indinfravit** and researchers.

This initiative is based on the principle of "**collaborate and compete**" under which the Institute will bring together industry experts, government agencies, and academic innovators and co-create the mobility digital infrastructure (Bharat Multi-Modal Mobility Stack or BM3S).

The Bharat Multi-Modal Mobility Stack is a digital platform to foster the "**Build for India, Solve for the World**" Goals. BM3S is designed to encompass all dimensions of mobility at the grassroots level covering the following broad areas:

- **Standards and infrastructure development**
- **Multi-modal connectivity**
- **Advanced vehicle technologies**
- **Enhanced user experience**

Reach out to csrpartner@ia.iitm.ac.in to know more about MInT.

CSR PROJECT SHOWCASE



New Hope for Breast Cancer Treatment in India

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Breast cancer is a major health concern in India, particularly for urban women. **Researchers at IIT Madras** are developing a novel and **affordable hyperthermia device** to fight this disease.

Hyperthermia uses targeted tissue heating to kill cancer cells. This promising **adjunct therapy can improve treatment outcomes**. The lack of such devices in India motivated IIT Madras to create a cost-effective solution.

This innovation aims to provide an **accessible and effective tool for breast cancer treatment in India**.

CSR SPOTLIGHT

High Blood Pressure in Pregnancy: A Serious Threat in India

Preeclampsia, a pregnancy complication marked by high blood pressure and protein in urine, affects **5-15%** of **pregnancies** in India. This serious condition can harm both mother and baby if not detected early.

Researchers at IIT Madras are looking for protein biomarkers unique to the Indian population that could predict preeclampsia, especially the late-onset form trickier to diagnose. This could lead to

- **earlier detection,**
- **improved risk assessment, and**
- **personalized treatment plans for Indian women.**



Don't miss out on this exciting opportunity. **Contact us today!** **Email:** csrpartner@ia.iitm.ac.in

NEWS AND EVENTS



Agnibaan Takes Off: A Historic Launch for Indian Space

AgniKul Cosmos, a start-up incubated at IIT Madras, on 30th May, 2024, achieved a historic milestone when it launched the world's first single-piece 3D printed rocket engine, designed and built indigenously in the country. With assistance from Isro, the startup successfully carried out a sub-orbital test-flight of its home-built rocket — Agnibaan — from Sriharikota.

Agnibaan SORTeD has got many firsts in its strides by becoming the first semi-cryogenic engine-powered rocket launch and also India's first rocket launch from a private launchpad. Agnibaan is powered by the only rocket engine in the country that uses both gas and liquid fuel.

PARTNER SPEAK

"We have been collaborating with IIT Madras for several years on a number of projects. Thanks to CSR initiatives, the range of our activities has now increased considerably. We are working with IIT Madras on several rural education and rural health projects. We also collaborated with them on the development of the highly successful COVID-19 website and software. We appreciate IIT Madras for their initiative in all these projects."

DR. T.S. SRIDHAR

Board Member, City Union Bank Ltd



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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