

# Technology for Biosensing system for the detection of Endocrine Disrupting Chemicals in aquatic ecosystems

January 19, 2023

**In news**– The Secretary, Ministry of Electronics & IT(MeitY) has launched the Technology for Biosensing system for the detection of Endocrine Disrupting Chemicals in aquatic ecosystems (MEAN) developed under MeitY supported projects.

## **About the technology-**

- The Centre for Development of Advanced Computing (C-DAC), Kolkata in collaboration with ICAR-CIFRI, Baraackpore under the 'National programme on Electronics and ICT applications in Agriculture and Environment (AgriEnIcs)' has developed a biosensing system for detection of Endocrine Disrupting Chemicals (EDC) in aquatic ecosystems, for qualitative and quantitative analysis of EDC content in water bodies.
- **The Biosensing based EDC detection system (MEAN), was also transferred to the selected industry Arogyam Medisoft Solution Private Limited** for further commercialization of the same technology for deployment at different locations of North-East.
- The transfer of technology (ToT) was done at MeitY, New Delhi.

## **Technology for Air Quality Monitoring System (AI-AQMS v1.0)-**

- The Secretary, MeitY, has also launched the Technology for Air Quality Monitoring System (AI-AQMS v1.0) developed under MeitY supported projects.

- The Centre for Development of Advanced Computing (C-DAC), Kolkata in collaboration with TeXMIN, ISM, Dhanbad **under the 'National programme on Electronics and ICT applications in Agriculture and Environment (AgriEnIcs)'** has developed a outdoor **air quality monitoring station to monitor environmental pollutants** which includes parameters like PM 1.0, PM 2.5, PM 10.0, SO<sub>2</sub>, NO<sub>2</sub>, CO, O<sub>2</sub>, ambient temperature, relative humidity etc., for continuous air quality analysis of the environment.
- The AI-AQMS v1.0, was also transferred to the selected industry J.M. EnviroLab Private Limited for further commercialization of the same technology for deployment at different mine and cement industries.