

Technology Showcase

a. Technologies Commercialized

Technology Sr. No.	Title of Technology	Brief Detail	References
Technology 1	Low cost Biogas storage balloons	We have manufactured low cost biogas storage balloons using a special polymeric material. Recently, a researcher has purchased two balloons of varying dimensions	Supporting documents can be obtained from the Institution

b. Technologies Developed

Technology Sr. No.	Title of Technology	Brief Detail	References
Technology 1	E-waste management using Economical and Ecofriendly Method (BIRAC is now supporting for pilot scale studies of this technology)	An eco friendly method has been developed for treating electronic waste was successful at lab scale studies. The method consists of utilization of bacteria for the removal of hazardous metals from e-waste and subsequent recovery by electrodeposition. Achieving > 99% leaching and >92% recovery in powdered form of copper and >93% leaching of Zinc	The methods (without disclosing the know how) were published with Elsevier and Springer. Two Industries (based in Chennai) working in E-waste have approached us with that reference.
Technology 2	A Novel method of sowing seeds along with azolla and IAA producers	When seeds were sowed along with azolla and Indole acetic acid producing bacteria, azolla works as continuous source of tryptophan, a precursor for IAA	The method (without disclosing the know how) have been published in one of journal of Springer – Nature
Technology 3	Laboratory Waste to Bioenergy (Indian Patent-Filed and Published)	Microbiology and Biotechnology laboratory waste can be efficiently converted to biomethane using a special pretreatment prior to its use.	Indian Patent Applications has been filed and published on 15 Sept. 2017 Application no. 201721029643 Scale up studies have been recommended for funding by DST
Technology 4	Yard waste/ Paper waste to Bioenergy	Leaf litters and paper waste is considered as complex and troublesome substrates for using as a feed for anaerobic digester. With our technology we made it possible.	We are providing consultancy for treating such kind of waste. Many Institutions have approached and

			benefited with this technology.
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