

**Brief Report on Mira Carb STP, Vermi Filter, Biobox Biogas & PyroCraker  
(4 Pilot Units) Setup of @ BSARCIST, Vandalur**

**Product Description:**

- Mira Carb STP - 1 M3 Capacity Advanced Japanese Waste Water Technology
- Vermi Filter - 1 M3 Capacity Vermi operated STP
- Biobox Biogas -50 Kg capacity Containerized Biogas Technology
- Pyro Craker -25 Kg capacity –Plastic Pyrolysis Unit

**Objective:**

- To lure bright youngsters to take up research activities on full time basis.
- To associate with Scientific Testing for related projects
- To promote and enhance the Pilot units to industry standards.
- To create innovative knowledge on sub field of these pilot units.

**Commissioned by (Company Name):** M/s. Kankyo Cleantech India Pvt Ltd. Chennai.

**Brief Report**

M/s. Kankyo Cleantech India Pvt. Ltd. Chennai and BSARCIST has jointly Setting up of 4 pilot plants at BSARCIST

- ❖ MIRA CARBON BASED STP FOR WATER RECYCLING
- ❖ VERMI FILTER
- ❖ BIO-BOX FOR ORGANIC WASTE TO BIO GAS CONVERSION
- ❖ PYROLYSIS REACTOR FOR PLASTIC AND OTHER FEEDSTOCK

The above pilot units are established in 2018, the BIO BOX unit of 50Kg/day capacity to generate biogas from various organic solid waste, Pyro- Cracker unit of 25 Kg/ Batch capacity for thermal pyrolytic degradation of plastic, biomass and mixed garbag. A Biogas plant of 50 m3 capacity for Ladies Hostel was commissioned. The gas generated from the plant is utilized for cooking in Ladies Hostel mess Kitchen. MIRA CARBON SEWAGE TREATMENT PLANT of 2 m3 capacity to treat domestic wastewater generated from the institute. Mainly 3 departments have taken the responsibility of full utilization. They are Civil Engineering, Physics and Chemistry. Internally there are many faculty from the departments and students are getting benefit on practical and theory related to the projects. Outside institution like Sri Ramachandra Medical College students etc. are also benefited and gain knowledge from the pilot plants.

**Photo of the 4 pilot units @ BSARCIST, Near Boys Hostel**

