

## Case Study – Rejuvenation of 5 TPD Biogas Plant at KCDC, Bangalore

### Introduction:

Karnataka Compost Development Corporation (KCDC) had set up a 5 TPD biogas plant in 2013. Over a period of time, the plant becomes non-functional due to its design constraints. KCDC offered its rejuvenation work to Gangotree Energy Projects Pvt. Ltd. (GEPPL) in January 2020. Over 4 months GEPPL team has done the hard work and rejuvenated the existing biogas plant with necessary modifications. The plant is now successfully running since May 2020.

### Project Details:

1. Waste processing capacity : 5 tons
2. Biogas generation : 300 – 400 m<sup>3</sup> per day
3. Total area of the plant : 500 m<sup>2</sup>
4. Operational since : May, 2020

### Operation:

GEPPL doing the daily operation and maintenance work of the biogas plant. The biogas plant consists of two steps – 1. Acid digester and 2. Methane digester. The plant's designed capacity is to process 5 tons of hotel waste. The biogas generated from the plant is stored in a storage balloon. A biogas generator is installed which illuminates the street lights in the KCDC campus from the energy derived from food waste.



Before



After