

STEP TOWARDS SWACHH BHARAT MISSION BY HOLY FAMILY HOSPITAL, OKHLA ROAD, NEW DELHI

Holy family is the first hospital in South-Delhi which has been Pro-active in Environmentally sound and sustainable practices for the management of Hospital Municipal Solid Waste along with bio-medical waste.

After winning the South Delhi Municipal Corporation (SDMC)

SWACH SURVEKSHAN 2018 AWARD.

“Ek aur Kadam Swachhta ki aur”

Holy Family Hospital has installed a **“Bio-Methane Plant of Capacity 250kg/day”**. Which is producing around **20kg** of the gas per day in winters and expected more than **40kg** of gas in summers. Which not only reduce the load on landfills but also encouraged the use of biogas a renewable source of energy and reduce the cost of LPG to some extent by incorporating such alternate sources into system. It is also a great step towards decrease in health issues caused by exposure and handling of MSW(Municipal Solid Waste) due to mixing of wet and dry waste. Around **125kg/day** organic waste is generated daily from the kitchen and approx. **90kg/day** from the canteens, hostels and residential inside the campus.

Bio methane is a naturally occurring gas which is produced during breakdown of organic matter such as kitchen waste/organic waste/food waste.

All large hospitals have kitchen facilities and canteens where meals are cooked for indoor patient and employees. On an average **100 to 150mg/meal** food waste is generated which includes leftover and raw food material. The food waste have high content of nutrients which can be dispose of in environmental friendly method by composting or by anaerobic decomposition to produce gas. Composting require large area and time for its maturation whereas anaerobic digester can generate methane gas in 10-15 days. Around 60% of the gas has methane concentration which can

be used for cooking food in kitchen, heating systems as well as can be mixed with diesel to generate electricity.

The plant is Designed and Installed by **Eco Pacific Solutions Pvt. Ltd.** a professionally Managed company specialized in Sustainable waste Management concepts: **WASTE TO ENERGY & WASTE TO WEALTH** and promotes Swachh Bharat Abhiyaan through awareness and by introducing green eco-friendly technologies.

The Plant was inaugurated today (16th January 2018) by

Rev.Father George P.A , Director, Holy Family Hospital and

Dr N R Tuli DHO (SDMC) Lajapat Nagar, New Delhi