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Innovative Environmental
Solution Pvt. Ltd.,

SWATCH – Magnetic Thermal Waste Disposal Systems (SINCE 2012)

Innovative Environmental Solutions, Bangalore! Introduces, a new innovative product called "SWATCH" to destruct any organic rejected waste collected at source without using any power/fuel for continuous destruction. This revolutionary product works on the principle of low temperature pyrolysis process at a temp of 350 to 400deg which is driven by magnet based technology. Swatch, can be used for destruction of non-segregated reject waste, domestic waste, specific industrial waste including plastic bags, waste tyres, vegetable wastes, card boards, garden leaves, oil choked cotton. It has a capacity to reduce the output of destructed waste in the ratio of 1/100 times. SWATCH system is a solution for decentralized processing of MSW after recovering certain amount of recyclables. Swatch systems are available in a capacity from 50KG/day to 2 tons/day which are more suitable for small and medium scale waste generators like Apartments, Commercial Complexes, Corporate, Cinema houses, Gated communities, Wards in Municipalities etc.

Features / Highlights of Swatch

- **NO SEGREGATION** – Rejected Mixed Solid Waste containing mixer of both dry and wet waste generated from households are suitable.
- **DECOMPOSITION AT SOURCE** - De-Centralized and Scientific method of Disposal which avoids Costly logistics to transport the waste to landfills.
- **PATENTED TECHNOLOGY** - Swatch system is patented in India for Technology, Design and Process.
- **THD METHOD** - Operates on principle of low temperature Pyrolysis using Thermal Heat Destruction (THD) method.
- **SMALL FOOTPRINT** - A small floor space depending on the system size sufficient to accommodate SWATCH system anywhere close to source.
- **QUICK & FAST** - Decomposition of waste takes place at a faster rate in 8 hours period for single batch load.
- **USER FRIENDLY** - simple operation and easy to load, MSW garbage bags can be loaded 2-3 times a day as such collected from households.
- **MOISTURE CONTENT** of the MSW recommended less than 40% for optimum decomposition. No liquids in food waste are acceptable which will harm the speed of decomposition process
- **NO POLLUTION, NO FLAMES, NO DIOXINS** - Does not produce any flames, thus generating dioxins and other poisonous gases are eliminated, even when plastics and PVC are processed.
- **MASSIVE VOLUME REDUCTION** - Reduces the output by 95-98% from the amount of the input waste loaded.



Principle of operation – Swatch System works on the principle of low temperature pyrolysis process using Magnet based technology where in a small amount of atmospheric air which is passed through strong magnets. When Natural air passed through these strong permanent magnets enters the destruction chamber as Magnetized air, the system begins an oxidative destruction process as a result an instantaneous heat source (e.g. ignited lighter) within the chamber will propel high temperature heating ($\geq 400^{\circ}\text{C}$) via magnetic vibrations thereby eliminating the possibility of dioxin emissions associated with lower temperatures (350 to 400 $^{\circ}\text{C}$) and decomposing the waste into ceramic ash. As a result, the volume of the waste material drops to a mere one by hundredth of its original condition by dramatically reduced levels of dioxin emissions and odors and virtually with minimal smoke



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