
Municipal Composting Scheme

Integrated composting for a municipality

Kerala, India - 16 March 2016



Scheme Description

Establishing pilot projects for the integrated management of urban waste, including biodegradable waste separation;

promoting and developing home composting of garden and kitchen waste (including meat and fish) in areas of low and high population;



Fig.1 Food waste loaded in



Fig.2 Rapid composting



Fig.3 pure organic compost

Scheme Description

Establishing pilot projects for the integrated management of urban waste, including biodegradable waste separation;

promoting and developing home composting of garden and kitchen waste (including meat and fish) in areas of low and high population;

Setting up a public service separate collection information point, as a technical and operational support for municipalities willing to promote or develop separate waste-collection schemes.

Collection of biodegradable waste three times a week; Collection of paper and plastic once a month with the same vehicle; Collection of dry non-recyclable waste twice a week in road bins used prior to the project.

The scheme's aim was to introduce an integrated collection scheme with no additional cost, and satisfy the waste disposal targets.

The separation of the biodegradable fraction, which is composed of highly putrescible waste, together with the collection of dry and recyclable fractions — paper, glass, plastic bottles — allows the reorganisation and integration of collection rounds. The total number of rounds has been kept constant, due to a reduction in the collection frequency for all other waste.

The plant receives waste from many areas near the facility, and processes kitchen and garden waste. It is basically a mixed municipal solid waste treatment plant and the composting process works downstream from a separation line for mixed waste. The composting process is being progressively upgraded towards producing high-quality compost. biodegradable waste is mixed with screened garden trimmings and tipped on a covered and aerated platform.

Bio - composting

There are six bio-containers that are monitored by a remote control system. They provide adequate aeration and moisture; air is blown into the cells to maintain an adequate oxygen level and to control the temperature. Some sprinklers provide the moisture as required.

Further curing which follows after the material has been taken out of the bio-containers.

Outdoor screening and open air product storage. The product is not yet put on the market or bagged for commercial purposes.

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