



**Kiran**  
WASTE MANAGEMENT

**Kiran**  **TECHNO SERVICES**  
PRIVATE LIMITED



## **KIRAN WASTE MANAGEMENT SYSTEMS**

Most of the waste generated in the city comprises of biodegradable, compostable and recyclable material. This is due to the high quantum of religious and vegetables waste along with the high amount of waste generated due to plastics. A small percentage of waste also comprises of debris and inert material generated from construction, repair and maintenance activities. This wastes contain bricks, cement concrete, stones, tiles, wood, etc. and the storage of this waste at the time of its generation is totally neglected. By and large, people deposit construction waste, after salvaging useful material, on the road.

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**Municipal Solid Waste Sorting Equipment –600 Ton Capacity (tpd)**



**Municipal Solid Waste Sorting Equipment –10 Ton Capacity (tpd)**

**Trash to Cash –Organic Fertilizer**



**BIOMASS**



Through sorting crushing biomass, temperature and pressure of explosion, fermentation technology, can be made into bio fertilizer and fuel.

## The Solution –Automatic Waste Segregation and Recycling

- FGI in association with IL will market an Integrated Automatic Municipal Solid Waste Segregating Machine with different capacity that would segregate different types of waste like wet waste, metal, plastic, paper, construction waste etc. with out manual intervention.
- At present there is no segregation of waste done at household, shops and commercial establishments and this is a very difficult task to achieve in terms of compliance
- Waste on the streets or in the municipal bins goes to disposal sites unsegregated. In absence of the practice of segregation of waste at source, rag pickers pickup part of this waste in soiled condition.
- The installation of waste segregators would bring in an economic value to the solid waste generated in the city, which would in turn generate revenues to the corporation

## Sustainable Competitive Edge –Solid Reasons for Success

- ✦ Intellectual Property Rights of the Machinery
- ✦ Six International Patents
- ✦ Superior Product/Brand with machinery deployed in multiple continents
- ✦ Successful Operations of the Machinery for nearly a decade
- ✦ Different capacity waste segregation depending on the MSW generated
- ✦ Recycling modules can be added based on customer need
- ✦ Automatic Segregation of Waste and Sale of Recyclables on a largescale
- ✦ 90% land fill can be a voided with waste segregation and recycling
- ✦ Development of hygienic conditions in the City/Towns
- ✦ Will generate Cash from Trash from sale of recycled MSW

## Integrated Waste Segregation Equipment Capacity

S. No.	Capacity (tpd)	Power (KW)	Manpower	Area/M2
1	10 Ton	8	3	5*3
3	30 Ton	10	3	6*3
4	40 Ton	15	3	7*3
5	50 Ton	15	3	8*3
6	100 Ton	180	5	65*15
7	200 Ton	220	5	80*15
8	300 Ton	280	5	90*15
9	400 Ton	350	7	120*15
10	600 Ton	400	8	125*15

### Organic Fertilizer Compost Unit –8 Ton Capacity (tpd)

### Trash to Cash –Plastic to Granules



## PLASTIC



Waste plastic by sorting, cleaning, granulation, can be made of plastic particles

### Trash to Cash –Metal Waste Recycling

## METAL



Through the sorting of scrap metal, smelting, recycling

## CONSTRUCTION WASTE



Construction waste Concrete block, brick, stone, through sorting, crushing, can be made of cement filling material

## Trash to Cash –The Future of Waste Management

There is a need for a complete rethinking of "waste"- to analyse if waste is indeed waste. A rethinking that calls for  
**WASTE to become WEALTH**  
**REFUSE to become RESOURCE**  
**TRASH to become CASH**

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