

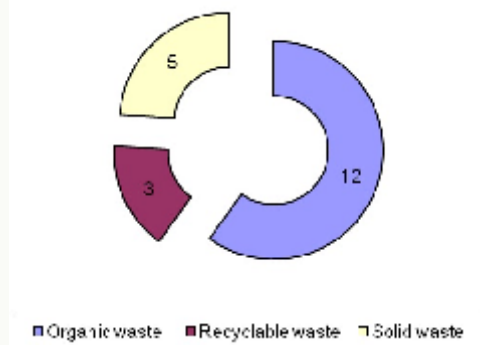
Muskan Jyoti Samiti (MJS)

Muskan Jyoti Samiti (MJS) registered in Indian Society Act 1860 is working for the Municipal Solid Waste Management at various locations in India with GOs, NGOs, Cooperates and Municipal Corporation for the last 20 years. We have developed socially-culturally-contextually-technically-economically suitable and self-sustainable solid waste disposal system, which not only helps local bodies in effective removal of garbage but also reduces burden of operation and maintenance and generates employment for unskilled workforce. This not only a noble work which reduced the side effects of urbanization but it is also proven business model ie **“Profit from Waste.”** Plan for solid waste management includes:

- ❑ Collection of domestic waste from source
- ❑ Primary segregation at source
- ❑ Second level segregation of waste
- ❑ Establishment of solid waste processing centre for transformation of biodegradable into organic manure

Composition of Municipal Waste

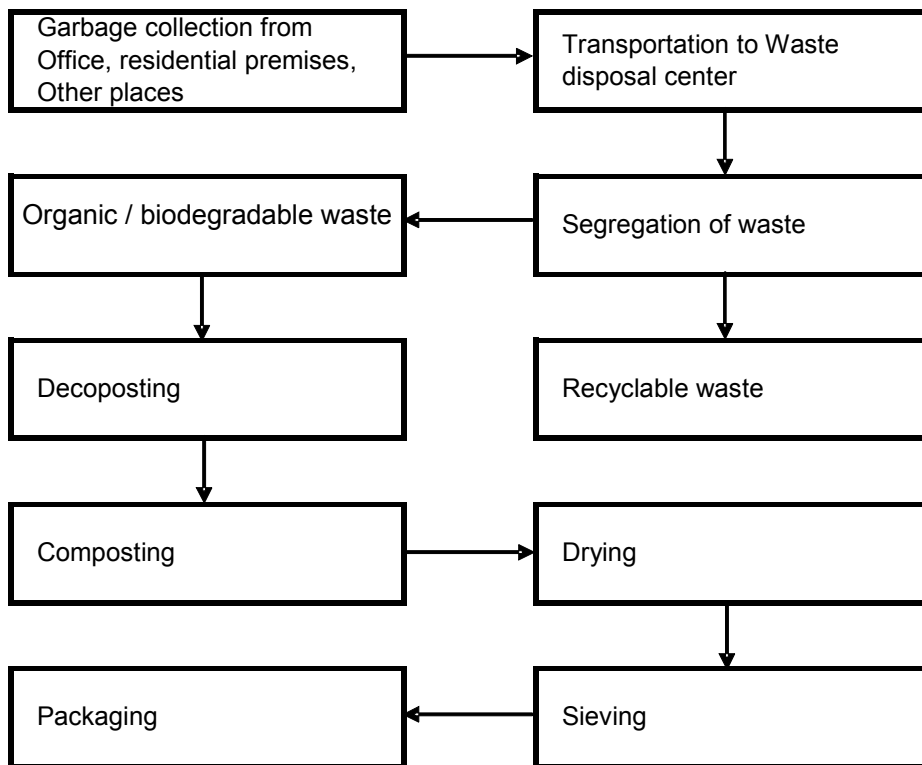
At the present population level estimated municipal waste generation in a city with one lakh population is about 20 tons per day or 7300 tons per annum. It is estimations that wastes is comprises of 55-60 percent organic or bio degradable waste, 15-20 percent recyclable waste and 20-25 percent inert waste.



MJS have successfully initiated /initiating various Solid Waste Management projects on PPP models as well as we are also providing Technological support to organizations. We are still proving support to below listed organization:-

- ITC Ltd. Saharanpur, Uttar Pradesh.
- Municipal Corporation Saharanpur, Uttar Pradesh.
- Vodafone Ltd. Lucknow, Uttar Pradesh.
- National Thermal power Corporation , Rihand, Uttar Pradesh.
- Indian Institute of Management, Lucknow, Uttar Pradesh.
- Ballarpur Industries Ltd, Ballarpur, Maharashtra.
- Dhariwal Industries Ltd. Chandrapura , Maharashtra.
- District Palamu, Govt. of Jharkhand.
- Gorakhpur Medical , Gorakhpur, Uttar Pradesh.
- District Jail , Gorakhpur
- And many more

Process Flow Chart



Key Features of Urban Waste Management and Disposal for One Lakh Population

- It reduces the total burden of garbage disposal by 80-85 percent
- Less land required for land filling for inert waste (5 to 15 % only)
- It transforms biodegradable [organic wastes] into organic manure
- It is a low cost system and operation and maintenance cost can be met through user charges and selling of manure
- Almost no power consumption in running of the unit
- Technique is simple, environment and user friendly
- The process will produce around 1,533 ton organic manure per year [depending on availability of degradable waste] that will help in promotion of sustainable agriculture practices and promoting organic farming in the area [formation of organic manure may increase in subsequent years]
- Collected 5,11,000 lit liquid fertilizers will be used for agriculture purpose, which otherwise polluting ground water and soil.
- Average reduction of CO₂ by 9, 30,000 kg in year.
- Less land requirement about One Acre for waste management
- Can be managed in Multi story building with carpet area of 800sq meter if Non availability of land in municipal area.
- 180 to 200 per capita cast for waste management

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