

## **Integrated End-to-End Solid Waste Management in Kanpur City, Uttar Pradesh**

The integrated Solid Waste management for Kanpur City was implemented on PPP mode with A2Z Infrastructure Ltd., Gurgaon being the private partner to Kanpur Municipal Corporation in 2012. The project was based on BOOT model for 30 years period. The project components include the collection, transportation, treatment and disposal of 1500 TPD of solid waste generated in 260 sq. km. of Kanpur Municipal Corporation limit.

The total project cost was Rs. 56.23 Crore (excluding the funds of the operator). Tipping fees being paid to A2Z for processing is Rs. 456/MT and the tipping fee paid to A2Z for the disposal of garbage is Rs.19/MT.

### **Process Flow**

- Source segregation through two bin-system
- Door-to-door collection & secondary collection of waste
- Transfer of wastes from major open dumps
- Three transfer station to economize on waste transportation costs and reduce vehicular traffic in the city area
- Recovery of recyclables
- Transportation of waste to the designated facility
- Compost plant of 700 TPD capacity for treatment of biodegradable waste
- Sanitary landfill for inerts and rejects of compost plant

### **Project Highlights**

- Collection of user charge through GPRS enabled devices
- Each & every lane of each ward and each bin location are mapped, marked and tabulated.
- Each of the vehicles is equipped with GPS system and every incidence of the compactor halting at every bin is monitored and recorded.

### **Products Derived**

- 12 % of Finished compost and green compost is enriched with bacteriological dosing such as Azatobacter and Trichoderma
- 40 % of Refused derived fuel (RDF)
- 8 % of Recyclables like Plastic board and Interlocking Tiles etc.

## **Overall Sustainability:**

Door to door collection of waste has increased to 50 % with an overall collection efficiency of 90% after implementation of the project. Recycling and reuse of waste increased upto 85%. Improvement in cost recovery of SWM charges upto 60%. Ragpickers moved out of dump to mainstream job with the concessionaire. **However, due to dues payment issues with ULB plant is now not functional.**

For more details contact:

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