



**Integrated Waste Management Solutions**  
*For Ecologically Sustainable Development*





Established in 1981, SPML Infra Limited (BSE: 500402 / NSE: SPMLINFRA) is a leading publicly listed infrastructure developer that has managed and implemented over 400 projects across India on an EPC (Engineering, Procurement and Construction), PPP (Public Private Partnership) and BOOT (Build-Own-Operate-Transfer) basis.

SPML has over three decades of multidisciplinary experience in executing world class infrastructure for water treatment and transmission, waste water treatment and recycling, solid waste management, power transmission and distribution and civil infrastructure development. An ISO – 9001: 2008 certified company, SPML has established proven leadership in the high technology construction of India's vital urban infrastructure.



### **Moving ahead to be India's premier utility company**

SPML Utilities Limited (SPML), a wholly owned subsidiary of SPML Infra Limited, has been established to oversee the PPP and BOOT businesses of the SPML group in the water supply and waste management sectors.

SPML is a leader in the management of municipal solid waste collection, segregation, transportation & safe disposal. It has expertise and offers end-to-end waste management solutions in compliance to the CPHEEO & MSW Rules 2000. SPML manages over a million ton of waste per year through industrially recognized processes, ensuring that it reaches a high level of performance in materials recovery and energy use.



# Effective Waste Management: Cause for Concern

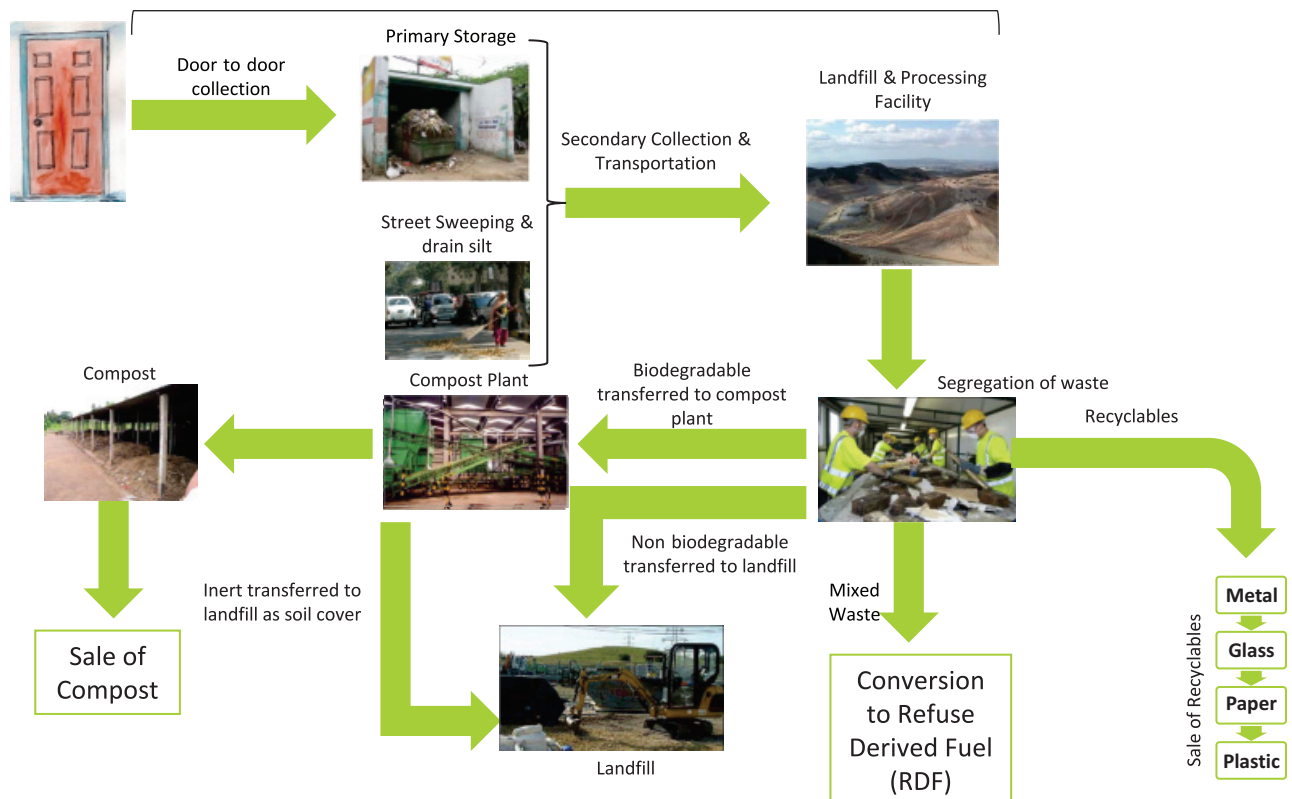
## For a Cleaner & more Sustainable Society



Waste management is becoming one of the most critical issues we are facing today. The problems of collection, segregation, transportation and proper disposal have become a gigantic task. In addition to the problem of availability of disposal sites further compounded by uncontrolled dumping of waste in disorganized and unhygienic landfill sites at the outskirts of towns/cities.

SPML has proven capabilities to successfully execute solid waste management projects on turn-key basis. It has expertise and offers end-to-end waste management solutions in compliance to the CPHEEO & MSW Rules 2000. A leader in the management of municipal solid waste collection, segregation, transportation & safe disposal, SPML currently manages over a million ton of municipal solid waste per year through industrially recognized processes, ensuring that it reaches a high level of performance in materials recovery and energy use.

### Municipal Solid Waste Management Value Chain



## Primary/Secondary Waste Collection & Transportation

SPML is involved in door to door collection of municipal solid waste, secondary collection of waste from bins and transportation to processing and landfill sites. The entire activity of waste collection, segregation and transportation is facilitated through RFID enabled bins in blue & green colour, dumper placer bins, aesthetically appealing waste storage depots, hook loaders and vehicle tracking system fitted in the waste collection vehicles comprising of smaller tippers, high capacity hydraulic compacters and dumper placers.



### Scope of Services

- Door-to-door collection of municipal solid waste
- Primary transportation and storage of waste at waste storage depots (WSD)
- Segregation of waste at secondary level
- Secondary transfer and transportation of waste to processing facility/landfill
- Design and construction of waste processing facilities-Composting/Refuse Drive Fuel
- Design and construction of scientific landfills (SLF)
- Design and construction of inert processing facilities-Eco Bricks/Paver Blocks
- Scientific closure of landfill
- Service contract for mechanical road sweeping
- Waste to resource; recycling, composting, waste to energy

## Waste Processing & Treatment

### Composting

SPML can solve the growing burden of biosolids disposal by signing long term contracts with utilities to manage organic waste through design, build, own and operate these facilities while meeting all environmental, odor, and air pollution regulations.

### Bio-methanation

SPML can help set up Bio-methanation plants for recovery of the landfill gas from waste decomposition via the methane production process (anaerobic digestion). The electricity generated can be used as fuel in gas engines and excess power generated can be supplied to the state power grids.

### Waste to Energy

SPML provides in-house capability to design, install and commissioning of power plants with biomass, a non-conventional renewable and green power technology that does not add to the environment pollution.

### Engineered Sanitary Landfill

SPML offer a comprehensive service to developers for the construction of any landfill project, from greenfield sites to extensions of existing facilities. This service ranges across the full spectrum from site selection, investigation & land acquisition, environment impact assessment, waste licensing to detailed project design and management.





## Urban Cleaning

SPML offers a range of urban cleaning services to assist municipalities and local government in maintaining the public spaces clean. It helps to improve the living environment of citizens and prevent health problems. These services include custom-designed cleaning plans and providing dedicated staff and equipment for road sweeping including street, park and green space maintenance, waste collection and disposal during festivals & events and bin cleaning & maintenance.

SPML can accommodate each municipality's specific requirements in full compliance with the environmental, social and safety standards.

### Scope of Services

- Cleaning of roads, streets, pavements, tourist sites
- Facility cleaning – monuments & public places
- Emptying and washing of waste collection bins
- Cleaning indoor and outdoor markets
- Cleaning street furniture
- Cleaning and maintaining of parks and gardens
- Cleaning at airports & railway stations

## Proven Successes – Projects Underway

### Delhi Waste Management



- PPP with Municipal Corporation of Delhi for 9 years
- Municipal waste collection, segregation & transportation to sanitary landfill
- Handles over 6 lac tons of municipal solid waste annually in Delhi
- Manages 829 waste storage depots (secondary collection points)
- owns and operates over 300 modern hydraulic vehicles including high capacity technologically advanced compactors, dumper placers, hook loaders and small tipper vehicles for waste collection and transportation.
- Operating in South, Central & City zones of Delhi covering 270 sq.km of area
- Fleet management, segregation, collection and disposal of waste are monitored and controlled through GPS
- The latest RFID system is placed on bins for its tracking and maintenance.
- Creating awareness for proper waste management and segregation at source among residents and school students
- Regular training on health and safety measurement among waste collectors.

### Allahabad City



- PPP with Allahabad Municipal Corporation for 30 years
- Door-to-door collection of MSW & its primary storage
- Secondary collection & transportation of waste – street sweeping waste, drain silt, collection of user charges
- Development, construction, operation & maintenance of scientific landfill site
- Development, construction, operation & maintenance of waste processing facility
- Daily collection and management of over 600 tons of municipal solid waste

### Mathura City



- PPP with Mathura Nagar Palika Parishad for 30 years
- Door-to-door collection of MSW & primary storage of collected door-to-door MSW
- Secondary collection & transportation of waste – street sweeping waste, drain silt, collection of user charges
- Development, construction, operation & maintenance of scientific landfill site
- Development, construction, operation & maintenance of waste processing facility
- Daily collection and management of over 200 tons of municipal solid waste

### Dehradun City



- PPP with Dehradun Municipal Corporation for 14 years
- Door-to-door collection, collection from streets, storage at primary/secondary points of generation
- Transportation of the waste to landfill sites after adequate segregation & recycling
- Development, construction, operation & maintenance of scientific landfill site
- Development, construction, operation & maintenance of waste processing facility
- Daily collection and management of over 300 tons of municipal solid waste

### Madurai City



- PPP with Madurai Municipal Corporation for 20 years
- Development, construction, operation & maintenance of scientific landfill site
- Integrated facility for handling of approximately 350 tons of municipal solid waste per day
- Facility to be expanded to accommodate the anticipated increase of 1000 tons of municipal solid waste per day by the end of the term
- Responsible for processing of municipal solid waste into compost and remaining inert disposal into the landfill site





### **Delhi & Hyderabad Airport**

SPML is providing all necessary services for effective waste management round the clock to both the international and domestic (T3 & T1) airports in Delhi. Delhi's international airport is the 8<sup>th</sup> largest airport in the world spread over 5.4 million sq ft of covered and 6.7 million sq ft of apron area with the capacity of handling over 34 million passengers per year. During peak time, both the international and domestic airports handle more than one lac passengers a day. SPML is responsible for collection, segregation, transportation and disposal of solid waste from airport premises and identified waste collection points. It has deputed trained and experienced officials and waste collectors with technologically advanced well equipped waste collection vehicles installed with GPS system. Each waste collection vehicle is connected to central control centre for monitoring and prompt collection services.

Hyderabad airport is the first greenfield airport in India catering nearly 10 million passengers per year. SPML is providing round the clock all days waste management services to the airport same as in Delhi. SPML is managing around 8000 tons of waste from both Delhi & Hyderabad airports annually.

### **In-house Manufacturing & Maintenance Facility**

SPML has its own waste collection bin manufacturing facility. The modern facility is completely equipped to manufacture new Compactor Placer (CP) and Dumper Placer (DP) Bins as per the requirements from all the projects. The maintenance section services the bins and necessary repair works are also done.

To ensure that service levels are of the highest standards; SPML has its own Vehicle Maintenance Centre to manage the maintenance, repair and cleaning of the entire fleet of waste management vehicles at all project sites.



**Reduce waste** through change in manufacturing processes & consumer habits  
**Reuse waste** through choosing goods & products that can be reused  
**Recycle waste** through waste processing



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