

# Executive Summary

## Integrated Solid Waste Management and Generation of Power from Waste (Jabalpur, Madhya Pradesh)

### Background/ Initiatives Undertaken

- Government of Madhya Pradesh is aimed to **effectively manage the solid waste**, through regional landfill concept
- Clusters of Urban Local Bodies (ULBs) were formed with a total of **26 clusters covering 378 ULBs**
- **Larger ULB is chosen as a lead member** and **smaller ULBs** within a distance of 50-80 km are selected as **cluster members**
- The **regional landfill site is situated in the lead member town**
- Municipal **solid waste from member ULBs** is transported for further **processing and disposal at the regional landfill site**
- Using this approach, minimum total waste is around 150 TPD and goes up to 1000 TPD
- **Katondha Power Plant**, Jabalpur is first integrated solid waste management plant with a **per day capacity of 11.4 MW**
- **Technology was used for effective implementation**, including **GPS** for monitoring SWM vehicles, **RFID** for monitoring of bins, **sensor** for waste treatment operations, **drone** for monitoring operations at landfill site, grievance redressal through **mobile application** and **control room** to monitor all SWM activities

### Key Achievements/ Impact

- Three clusters, namely **Jabalpur, Katni & Sagar**, are operational
- All the towns of Jabalpur, Katni & Sagar clusters are clean
- **7 to 8 MW of energy** is being produced at Jabalpur '**Waste to Energy**' plant
- **Decline in vector borne diseases** has been witnessed
- **Behavioral changes** among citizens in effective waste disposal



## **Integrated Solid Waste Management and Generation of Power from Waste (Jabalpur, Madhya Pradesh)**

### **Background**

Conservation of clean and healthy environment is one of the prime concerns for every city and town of the country. The Integrated Solid Waste Management (ISWM) project at Jabalpur, Madhya Pradesh was initiated by Government of Madhya Pradesh, in accordance with Municipal Solid Waste (MSW) rules.

### **Approach Adopted**

Government of Madhya Pradesh decided to implement Solid Waste Management (SWM) across all ULBs in an integrated manner by forming clusters of ULBs on Regional Landfill Concept. Clusters were designed considering the logistics and optimization of waste for making it financially and operationally viable. To leverage financial support as well as technical competency, the project was implemented through PPP mode. The scope of the private operator includes primary collection (door to door), secondary collection, transportation, segregation (if required), waste processing and final disposal in a scientifically developed landfill. Regional landfill is situated in bigger ULB of each cluster. Waste from other ULBs is brought to lead town or satellite town for transportation, processing and final disposal. Energy produced from the waste at Katondha Power Plant, Jabalpur, is purchased by MP Power Management Company.

## Awareness Generation



## Door to Door Collection



### *Awareness Generation*

Jabalpur Municipal Corporation conducted campaigns for generating awareness and eliciting support from citizens through public workshops, billboards, distribution of pamphlets and other publicity material. The corporation also conducted other Information Education and Communication (IEC) related activities through social media and workshops in schools for explaining the importance of scientific waste management.

### **Impact**

The key outcomes of the project are highlighted below:

- Three clusters namely Jabalpur, Katni & Sagar have become operational and all towns of these clusters are clean. This has resulted in a decline in vector borne diseases.
- A behavioral change has been observed among citizens in effective waste disposal.
- 7 to 8 MW of energy is being generated at Jabalpur 'Waste to Energy' plant.

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