



## CCAC MSW City Action Plan

**Objective:** To initiate cooperation that promotes short-lived climate pollutant (SLCP) mitigation in waste management activities within CCAC partner cities.

**Purpose:** To organize the main priorities, stakeholders, processes, and resources needed for implementing waste sector SLCP projects. It will also help identify how the CCAC can help advance these projects in a targeted way. While considering these key issues, it is important to think strategically about which actions are within the purview of cities, which require the involvement of external authorities (state, regional, national), as well as the challenges that may require engagement with other stakeholders.

### Summary of City Assessment Results -

Include current practices, key findings and major priorities or challenges identified.

**Population:** 195,000

**Waste generation:** 49.83 MT / Day

**Waste collection:** 18,188 MT/ Year

**Waste disposal:** 5,820 MT / Year

**Organic diversion and treatment:** 6,366 MT/ Year

**Recycling:** 3,638 MT / Year

#### **Policies (local & National):**

##### **City Level**

Other than the Municipal Solid Waste (Management & Handling) Rule, 2000, the other legislations by the state are:

- Maharashtra Non-Biodegradable Garbage (Control) Act 2006.
- Maharashtra Plastic Carry Bags (Manufacture and Usage) Rules 2006.
- Maharashtra Non-Biodegradable Garbage (Control) Act 2006.

##### **Country Level**

- Municipal Solid Waste (Management & Handling) Rules, 2000 by MoEF.
- Revised draft of Rules circulated in the year 2013 by MoEF.
- MSW (M&H) Rules 2013 by the Ministry of Environment and Forest (MoEF) and
- Manual on Municipal Solid Waste Management and Handling 2014.
- National Urban Sanitation Policy (NUSP).
- Plastic Waste (Management and Handling) Rules, 2011
- Bio-medical Waste (Management and Handling) Rules, 2009 and draft 2011
- E-Waste (Management and Handling Rules), 2011
- Battery (Management and Handling Rules), 2001
- Construction & Demolition (C&D) Waste Rules, under consideration



**Major stakeholders:**

Panvel Municipal Council - <http://www.panvelnagarparishad.com/EIPPROD/singleIndex.jsp?orgid=112>

CIDCO - [http://www.cidco.maharashtra.gov.in/RM\\_Taluka\\_panvel.aspx](http://www.cidco.maharashtra.gov.in/RM_Taluka_panvel.aspx)

**Priority activities to work under the guidance of CCAC MSW Initiative -**

Describe project/programme/policy in one or two lines.

**Project/programme/policy of interest to the city**

**1. Panvel City**

**Project/Programme:** Implementing on-the-ground action with city and informing the long term framework

**SLCP Impact:** long-term feasible solutions & scaling up beyond the initial targets in municipal Solid Waste Management in SLCPs emission reduction.

**Technical Assistance Sought:** The technical assistance are majorly needed in the areas of Recycling, Treatment and composting of the solid waste collection and segregation.

**Knowledge sharing, Networking, and City-to-City Exchanges -** As applicable, list which Project/Programme/Policy in participating cities you would be interested in learning more about through knowledge sharing, networking, or a city-to-city exchange.

Interested in learning about:

As Panvel is growing city, Urbanization is taking place rapidly. According to recent census total population of the area is about to 195,000. It is need to be a municipal solid waste management in the area. This project is replica of other waste management system to different cities and also try to come with some new activity and idea to enhance the management process and will be focus on to send less amount of waste to the landfilling site for disposal which help in reducing SLCPs.

Key learning points:

- Waste minimization practices.
- SLCPs emission reduction
- Proper management of waste.
- Generation of biogas by organic material which can be utilized for electricity generation.
- Follow 3R - Reuse, recycle and reduce.
- Reduce in amount of waste for landfilling which can subject to less pollution of water, air, soil.
- Minimization of open burning near landfill site.
- Decrease in health decease.
- Economic benefits etc.



**Roles and Responsibilities** - Indicate how both your city and stakeholders, including CCAC, will cooperate to ensure consistent dialogue, staffing, and debriefing on completed activities, to ensure successful outcomes and sharing of lessons learned.

The MSW Initiative goal is to maximise SLCP reductions through the support of large impact actions and facilitating replication of good practices by linking national and local governments and fostering city-to-city collaboration. However, the MSW Initiative also recognises that smaller projects can be a detonator of further action by driving awareness, demonstrating leadership, activating political will, or demonstrating a different approach or test technologies and solutions, etc.

Right now the city official's main focus has been towards developing a system for proper segregation and subsequent processing rather than developing a good collection system. There have been attempts of Bio-Methanation in the area but due to certain technical and operation lags the success is doubted. One of the associate implementation partners (Stree Mukti Sanghatana) have attempted to form self-help groups of waste-pickers 10 years back. But the efforts did not sustain itself beyond a certain period of time.

**Next Steps** - Indicate level of endorsement required within your city, a brief implementation roadmap, describe collaboration with other partners needed, etc.

Next would be the implementation of the action plan, once CCAC approves the application of the next phase.

- Identify reuse/recovery alternatives for municipal solid waste and evaluate it in technical, economic, environmental and social terms, selecting the best options.
- Identify suitable sites for installation of the proposed alternatives, based on sustainability, technical, economic, environmental and social criteria.
- Propose a management model, including its business model and funding proposal.
- Develop and propose a municipal Investment Plan, at project profile level, to allow implementing the proposed model.
- Propose a program of outreach and awareness to the community, according to the management model.
- Propose indicators of Measurement, Reporting and Verification (MRV)