



Multi-stakeholder Consultation on the Pre-Final Draft Road Map for Zero Waste Ahmedabad

**Co-organized by AMC and UNCRD
Supported by Zero Waste South Australia
12th September 2012
Standing Committee Room, AMC, India**

Meeting Summary

Participation:

1. Mr. Asitbhai Vora, Hon. Mayor, AMC
2. Ms. Darshanaben Vaghela, Hon. Dy. Mayor, AMC
3. Mr. Bhupendrabhai Patel, Chairman , Standing Committee , AMC
4. Mr. Gautambhai Shah, Leader, BJP, AMC
5. Mr. I. P. Gautam I.A.S., Principal Secretary, U. D. Deptt. Govt.of Guj.
6. Dr. Guruprasad Mohapatra I.A.S., Municipal Commissioner, AMC
7. Mr. I. K. Patel G.A.S., Dy. Municipal Commissioner (SWM / Health), AMC
8. Capt. Dilip Mahajan, Dy. Municipal Commissioner (Hospitals), AMC
9. Ms. Chikako Takase, Director, UNCRD
10. Mr. Choudhary Rudra Charan Mohanty, UNCRD
11. Mr. Hemant Chaudhary, International Resource Person, UNCRD

And representatives of different NGOs, Industries, Business groups, Educational Institutes, Academic Institutes were invited.

Opening Address by:

Dr. Guruprasad Mohapatra I.A.S., Municipal Commissioner, AMC

- We are here to discuss the road map.
- I want to share my happiness to announce that Ahmedabad is the only city in India which has signed MoU for zero waste.
- I am thankful to UNCRD for selecting Ahmedabad for doing this work.
- Zero waste is far beyond than what we have done in solid waste management.
- Series of programme steps to be taken by A.M.C., Stage Government and Federal Government to make zero waste practice success and zero waste practice a reality.
- We will share what A.M.C. has done and what things are to be done in period ahead.

- Other metro cities will also go for zero waste culture. It is also a determination of city, citizen for zero waste life style and this life style will bring in zero waste practices.

Opening Address by UNCRD

Ms. Chikako Takase, Director, UNCRD

- I Welcome representatives of private sector / business centers, scientific and Research institutes, NGOs, consultant organizations.
- Congratulate Ahmedabad for taking leadership to bring zero waste system.
- This meeting has utmost importance since this becomes documents of yours.
- Zero waste is long term process and vision.
- In 21st century we cannot ignore zero waste society. We have to think towards waste reduction, waste reuse.
- Necessary policy changes and effective operation between private sector and government sector is required.
- By joining hands, we can make Ahmedabad city lovable and livable and also set an example for many other cities in the world.

Speech by Guest of Honour

Mr. I.P.Gautam I.A.S., Principal Secretary, U.D.Deptt., Govt.of Gujarat

- I am grateful and congratulate to A.M.C. for taking this initiative - especially to Dr.Guruprasad Mohopatra, who has taken this task first time in Gujarat. Environmental issues and solid waste management issues are being taken up very well by him.
- Today is pre-final draft constitution, in which A.M.C. has invited the representatives from the leading NGOs, research and development, academic institutions to have their suggestions, guidance to achieve zero waste.
- Such task requires civic assistance, civic support from the people at large
- Role of academic institutions, NGOs is most important to change the people behavior, make aware of people to achieve this goal.
- We can also implement it in all major corporations later on.
- As far as the State Government is concerned, State Government is committed to extend full support to Ahmedabad Municipal Corporation to take this agenda forward.
- I thanks to Director, UNCRD for selecting Ahmedabad City for zero waste

Welcome address by:

Mr. Asit Vora, Hon. Mayor, AMC

- Due to old System of Door to Door waste collection, the waste was not disposed off from containers timely.
- Earlier 700 - 1000 tons waste collected.
- Hon. Chief Minister is insisting for implementing door to dumping system.
- It is easy to adopt new system but before implementing it, social problems, financial problems, established facts etc. are to be tackled - not so easy.
- Door to dump system is introduced in Vejalpur on trial basis in the year 2009
- It is decided to allot 2 wards in every zone to the workers of valmiki samaj.

- tenders were published in every zone and as a result 1800 tons of waste is being collected through this Door to dump system.
- it is required to reduce avg. of 600 gms waste material per head to 400 gms.
- We are having a landfill site which can be useful up to 6 years. We have kept land reserved for more six landfill site.
- AMC is not only thinking of solid waste management, but various important issues like water harvesting, recycling of waste water, 24 x 7 water supply, energy efficiency, environmental issues, power generation, energy audit etc. are taken into consideration.
- For reuse, recycle of the waste, awareness among the public is also required, NGOs should carry Awareness programmes for this.
- AMC has taken initiative for supplying water for 24 hrs. so that clean water can be available with required pressure. Waste of water will be reduced
- Steps are being taken for water conservation and water energy.
- Survey of bore well is also going on.
- Joint Efforts of State Government, Central Government, A.M.C., NGOs, and citizens of the city will give good result.
- Ahmedabad is also planning for tackling the traffic issues. New over bridges are constructed to tackle the traffic problems. The survey work is also given to Delhi located agency and they have identified 30-50 traffic congested spots. After justifying it A.M.C. is going ahead on this issue.
- NGO's roles are also very important to make people aware of these issues. Please give your inputs on 34 points.
- I hope, through sharing of your experience, suggestion, inputs and proper planning, Ahmedabad will also become No.1 city in health and sanitation aspects too.

Mr. Hemant Chaudhary, International Resource Person, UNCRD

- Everybody has a copy of road map. Please go through the draft and give your input after studying it.
- I congratulate A.M.C. for taking this visionary task on hand. This city is very ambitious in taking initiative.
- In preparing this road map, we have not reviewed only the best practices adopted all over the world but also social economic situation of the city

The Main points of discussion:-

Zero waste generation focuses on the conservation of resources and Zero Waste disposal focuses on the protection of environment and public health.

The road map gives focus to work together towards a resource efficient and zero waste society and made on basis of works being undertaken by AMC and taking in to consideration the world's best practice and the views expressed by the stakeholders.

For achieving zero waste by A.M.C., people, industries, NGOs have to work jointly.

No city can achieve the zero waste without the effective collaboration and partnership with private sectors.

Strategic Actions were briefed by Mr. Choudhury Rudra Charan Mohanty, UNCRD as follows:-

- Open dumping must be banned. The master plan reg. site operation, security and access, landfill gas extraction and use for energy
- Litter awareness and prevention plan should be developed for the city. NGOs involvement for better results.
- Strict rules & regulation.
- Prevention of illegal disposal and dumping waste like plastics, paper, hazardous wastes, vegetable/food waste
- The environment practices which proved successful in other countries can be considered
- Make policies and take regulatory measures to make waste management systematic
- Provide training to the workforce to improve skill level
- Health monitoring programme should be introduced
- Restructuring the existing solid waste management system of A.M.C.
- Introduce by-laws to support A.M.C. in this task. Political support is required
- Develop individual responsibility through education regulation
- to bring change in behavior, waste segregation and discouraging littering
- Introduction of some penalty charges for throwing waste
- Implement strong policies for maximum waste collection, segregation and recycle
- Present collection system will be modified
- Involvement of research institutes and industry to deal with waste management issues
- Work with the industries, business groups to facilitate the creation of strong markets for recyclables.
- Education and awareness programmes for the people, different industries
- Introduce awareness programmes and activities related to health and safety aspects of e-waste
- Introduce zero waste education in the school syllabus
- Implementation of 3-5 years plan which include targets and key performance indicators for review on yearly

Points of Open Discussion:

- Type of interagency / inter-department cooperation and multi-stakeholders partnerships for implementing the Zero waste road map
- Opportunities / incentives for the private sector to partner with AMC in implementing the Road map.
- Key agencies / departments that need to cooperate with AMC in implementing the road map.
- How to introduce zero waste policies and programmes in the mainstream policy and development agenda at Guj. Government level in support of the Strategic Action areas of the Road Map?

Inputs/Suggestions received:

- Containers/Bins should be identified with three colors as per the type of waste collected.
- We should educate children, school / college students.
- In school level, children should be given additional 5% marks for taking responsibility of "Paryavarn Rakshak".

- More NGOs should be involved for making people aware of cleanliness, stop littering anywhere etc.
- Power can be generated from green waste. The waste of vegetable markets and fruit markets can be used for this. Pilot project can be started.
- Introduce strict regulations and enforcement to prevent illegal disposal of plastics, paper, packaging material, green waste and dumping of waste.
- Develop policies and regulatory measures.
- Strict implementation of solid waste management rules.
- The people should be charged penalty for littering on the road, throwing waste etc.
- 3rd party review process for analyzing whether all objectives of Zero Waste Road Map are met by AMC
- Light plastic waste can be used for producing diesel by techno mixture plan. In Chennai such plan is in operation.
- New system should ensure the livelihood of street sweepers, Safety measures, Health insurance can be taken for waste pickers, street sweepers.
- Solid waste activities should be decentralized. Waste to Wealth concept should be taken into consideration.
- Introduction of best practice waste management demonstration programme at identified locations to make community aware.
- Activities related to health and safety aspect of e-waste should be taken up.
- Zero waste education can be included in the school curriculum by Education Department.
- Green waste transportation must be made fast from composting point of view.
- Government initiatives in power buy back policy with Municipal Corporation.
- Strong actions are required to reduce cattle nuisance and dog menace.
- Various awareness programmes should be conducted in every schools/colleges like Nirma University is doing.
- Tax rebate should be given to those, maintaining cleanliness and non compliance should be penalized.
- From public health point of view, still our city is not free from open defecation. We should provide proper and sufficient sanitation facilities.
- More power should be given to Sanitary Inspector.
- From safety point of view, the workers engaged in collecting waste must be provided with protective devises.

Concluding Remarks by Dr. Guruprasad Mohopatra I.A.S., Municipal Commissioner, AMC

- We had very detailed discussion and thanks for your livelihood participation.
- Nearly 3500 m. tons of solid waste is generated from the city on daily basis including construction debris.
- The entire waste is collected from municipal bins and from street sweeping.
- The contractors appointed by A.M.C. collect waste from residential units under Door/Gate to Dump.
- Bio-medical waste is collected from the hospitals and sent to the incineration plant by contractors. Dead animals are collected, transported to Gyaspur Pail Depot. Hotels and Kitchen waste from restaurants is collected and transported to composting plant.

- A.M.C. is also preparing e-waste plan on PPP basis.
- A pilot project for utilization of green waste is started by A.M.C. in Law Garden. The garden, hotel kitchen and green waste will be converted into organic manure with the help of Excel Inds. Ltd.
- We need to improve waste collection system.
- segregation is very desirable but not easy to achieve.
- By 2014, all the waste will be sent to Pirana
- Earlier 1000 tons per day of waste lifted, now it is increased to 4000 tons per day.
- Solid Waste Master Plan for 2031 is being prepared by A.M.C.
- By 2014, waste will not be untreated or unused.
- City Sanitation Plan is also in process, it is being framed.
- City clean practices will be implemented through communication plan by T.V., Theatre etc.
- Open defecation spots are identified. More pay & use toilets are to be made. The design of toilets will be changed and quality will be improved.
- We are dedicated towards Zero base waste.