

**MUNICIPAL SOLID WASTES
(MANAGEMENT AND HANDLING) RULES, 2000**

ANNUAL REPORT 2006-2007

*(Annual Report prepared in compliance to
the provision 8(2) of the Rule)*



CENTRAL POLLUTION CONTROL BOARD
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Key Words: * MSW (Municipal Solid Waste)
* MSW Rule (Municipal Solid Wastes Management and Handling) Rules, 2000
* ULBS (Urban Local Bodies)
* SPCBs (State Pollution Control Boards)

1. ANNUAL REPORT AS PER MSW RULES

In accordance with the Provision (8) of Municipal Solid Wastes (Management and Handling) Rules, 2000, the Central Pollution Control Board (CPCB) is required to prepare the consolidated annual review report on management of municipal solid waste (MSW) and the same is to be forwarded to the Central Government that is, Ministry of Environmental and Forests (MoEF) along with its recommendations before 15th December every year. However, report of CPCB is to be based on the annual report to be prepared by the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) which is required to be forwarded by them to CPCB before 15th September every year.

2. MECHANISM OF REVIEW

Based on the receipt of annual consolidated report from SPCBs/PCCs, the status of implementation of MSW rules is reviewed. During the year, regular interaction with SPCBs/PCCs through Meetings and Workshops is made to facilitate implementation of rules. Review of status of implementation of rules is based on following observations;

- (i) Number of application received and number of authorizations granted by SPCBs/PCCs during the year to the local bodies.
- (ii) Initiatives taken by local bodies to implement Schedule-II relating to collection, Segregation, Storage and Transportation (CSST) of waste;
- (iii) Initiatives taken to implement Schedule-III with regard to setting-up waste disposal facilities; and
- (iv) Efforts made to set-up waste processing plants in accordance with Schedule-IV of the rules.

3. LOCAL BODIES

There are large number of local bodies in the country and MSW rules are applicable to all of them. As per 2001 census, number of cities/ towns are as under:

Population	Class	No. of Cities
>10,00,000 and above (metro only)		35
>1,00,000 and above	Class I	393
50,000 – 99,999	Class II	401
20,000 – 49,999	Class III	1,115
10,000 – 19,999	Class IV	1,344
5,000 - 9,999	Class V	888
> 5,000	Class VI	191
Unclassified		10
		4377

4. ANNUAL REPORT – 2006-07

Local bodies are required to forward Annual report for each year to SPCBs/PCCs before 30th June every year and SPCBs in turn, will send their consolidated report for the year before 15th September to CPCB. However, in terms of adhering with stipulated schedule, delay has been observed. As of 31st December, 2007, CPCB could receive Annual reports only from 17 SPCBs/PCCs. Based on information received from 18 SPCBs and the response received with reference to Lok Sabha Starred Question No.238 answered on 29.08.2007, present Annual Report of 2005-06 is prepared.

5. STATUS OF IMPLEMENTATION OF MSW RULES

5.1 Authorizations

- Details on authorization granted by SPCBs is given in *Annexure-I*.
- Except SPCBs Gujarat, Maharashtra and Karnataka, other State Boards have not issued authorizations to the majority of local bodies in their respective states.

5.2 Implementation of Schedule-II

- Efforts are being made by many local bodies for creating awareness in the citizens for ensuing proper management of waste including systematization of procedures relating to waste collection, segregation, storage and transportation. However, such efforts are either restricted to a few localities/ wards within the town or a few ULBs taken up such efforts at entire town level.
- The efforts made by local bodies for bringing improvement in waste collection, segregation, storage and transportation is given in *Annexure-II*.
- Cleanliness varies from town-to-town depending on the initiatives taken by that local body. It has been observed that collection of waste from door-step is the most critical issue in the entire management of MSW.

5.3 Implementation of Schedule-III (Landfilling)

- Disposal of waste is still continued through open dumping.
- As per information of State Boards, landfills have been reported as 'constructed' at; Bangalore, Mangalore, Karwar, Puttur, Ankola, Surat, Alang, Nashik, Sonpeth, Ambad. At other places, landfills are under construction/ or planning stage.
- A status indicating information on landfill is given at *Annexure-III*

5.4 Implementation of Schedule-IV (Waste Processing)

- There has been a positive movement on setting up of waste processing facilities as compared to the efforts made in the previous years. In many States, several towns have responded that there is partial composting/ vermi-composting facilities. Local bodies have not so far preferred waste-to-energy projects except in the State of Andhra Pradesh.
- Statewise information on existing/proposed waste processing plants or where some initiatives have been taken is given at [Annexure-IV](#).
- It has been observed that 'composting' and 'vermi-composting' is preferred as easy technological option by local bodies and other options like thermal processing (incineration, pyrolysis etc.) are not attempted due to non-availability of operating experiences.

6.0 INITIATIVES AT NATIONAL LEVEL

CPCB and MoEF and other Central Ministries such as Ministry of Urban Development (MoUD) and Ministry of Non-Conventional Energy Sources (MNES) have taken initiatives to facilitate implementation of MSW rules. Some of the initiatives taken are briefly summarized as under:

6.1 Demonstration Projects

MoEF and CPCB have instituted a scheme for setting up of demonstration project for solid waste management in accordance with MSW Rule. Objective of the scheme is to demonstrate implementation of MSW Rule in an integrated manner. The scheme is based on cost sharing basis where concerned local body is required to contribute 50% of the total cost of the project. The following project have been taken up.

S.No	State	Town
1	West Bengal	North Dum-Dum New Barrakpore
2	UT Chandigarh	Chandigarh
3	Tamil Nadu	Udumalpet
4	Kerala	Kozhikode (MoEF)
5	Himachal Pradesh	Mandi
6	Andhra Pradesh	Suryapet
7	Nagaland	Kohima
8	Maharashtra	Jalna
9	Arunachal Pradesh	Itanagar
10	Sikkim	South West District
11	Tripura	Agartala
12	Gujarat	AUDA (MoEF)

Salient features of the Demo-schemes are placed at [Annexure-V](#)

6.2 Utilisation of Grants Under 12th Finance Commission

The Twelfth Finance Commission has recommended devolution of grants for Urban Local Bodies to the tune of Rs.5000 crores for the period 2005-2010 of which Rs.2500 crores have to be devolved upon local bodies exclusively for setting-up of solid waste management systems in Urban areas to ensure management of MSW in accordance with MSW Rules. Ministry of Urban Development on 6th October, 2005 has circulated guidelines for preparation of DPRs and selection of technologies for processing and final disposal of MSW for different categories of towns for the benefit of State Government/ Local bodies. The emphasis has also been given to implement various activities of solid waste system through private sector participation.

State Governments and Pollution Control Boards have been requested to participate in the process of utilizing the grants and provide assistance to local bodies in preparing DPR for cities and towns

7.0 RECOMMENDATIONS/PROPOSALS FOR CONSIDERATION

7.1 At Central level in appropriate Ministry, a Cell may be designated to provide assistance to the State governments and UT administrations enabling them to take decisions on implementation of MSW Rules particularly relating to setting up of waste processing and disposal facilities. Indicative guidelines on selection of waste processing and disposal technological options, model agreements for Private sector participation in solid waste management, etc., may be widely circulated to the local bodies.

At State level, similar type of Group may be set-up to assist local bodies. States may evolve Plans and Policy to provide technological and financial assistance to the local bodies.

7.2 MoEF and CPCB may continue the on-going scheme on Demo-Pilot Projects for at least one to two towns in each State in addition to the recommended grants under Twelfth Finance Commission to the States. However, smaller towns preferably having population < 5 lakh could be preferred for pilot projects.

7.3 Central Ministries such as Ministry of Urban Development (MoUD), Ministry of Agriculture and Ministry of New and Renewable Energy (MNRE) may continue to provide assistance to the States in terms of technical assistance and in selection of appropriate technologies relating to waste processing and disposal including facilitating States in seeking private sector participation. The proposed action will help States in proper utilization of grants under the schemes like Twelfth Finance Commission, etc.

- 7.4 Ministry of Urban Development may follow-up on implementation of the report of an Inter-ministerial task force on integrated plant nutrient management using city compost which has been filed in the Hon'ble Supreme Court on 06.05.2005 (in the matter of WPC 888/96). This report has brought out various relevant issues on composting particularly technical and financial requirements for setting up of compost plant and will be useful to State Govts, local bodies and other concerned agencies to refer before taking final decisions.
- 7.5 A report of the expert committee for inspection and evaluation of the project for energy recovery from MSW at Lucknow; 2005 (brought out with reference to MNRE Order dated 19.05.2005) may be circulated to State Governments for their reference. The recommendations of Expert Group will be useful to States while taking decisions on selection of waste processing technologies and particularly with reference to waste-to-energy projects. In accordance with Hon'ble Supreme Court directives, MNRE may consider to set-up waste-to-energy demo projects.
- 7.6 MoEF may consider to suitably amend the Schedule-I of MSW rules while taking view on funds being provided under the Twelfth Finance Commission (TFC) which are to be utilized during 2005-2010
- 7.7 Specific issues requiring consideration while amending MSW rules may include ;
- Promotion of regional facilities (common facilities) for setting-up of waste processing and disposal facilities.
 - Aviation authorities may issue appropriate guidelines to States while deciding for identification of sites for waste processing and disposal.
- 7.8 Pollution Control Boards/Local Bodies/ State Governments who have taken initiatives in preparing action plans for solid waste management in metro cities and State Capitals (in pursuance with Supreme Court order dated 04.10.04, WPC 888/96), may get Detailed Project Reports (DPRs) formulated for each metro city and State Capital and initiate implementation. During the Eleventh Plan period, States may target to achieve for covering major local bodies in ensuring their compliance to MSW rules taking benefit of grants released and also meeting balance out of own resources of local bodies through State Plan.
- 7.9 State governments may set up solid waste mission (as set up by Govt. of West Bengal) and evolve state level policies (like Rajasthan, Andhra Pradesh, Karnataka, Maharashtra and others) and providing technical/ financial guidance to local bodies in their State/UT.

7.10 Dissemination of information through Electronic media including mass awareness campaigns and seeking private sector participation in solid waste management should be continued activity. Pollution Control Boards/ State Urban Development Departments may place consolidated status on solid waste management (may also include other sanitation issues of state), Annual reports of local bodies and initiatives taken on web site for public benefit.

7.11 Specific attention is required on;

- (a) Setting up of waste processing and disposal facilities at hilly states and particularly at Defence bases.
- (b) Providing prescription of packages for waste processing and disposal in Defence/Railway and other set-up like Cantonment Boards.

SUMMARY OF ANNUAL REPORT, 2006-07

1. Observations/ Findings of Annual Report -2006-07

1.1 Authorizations

State-wise response of local bodies for seeking authorizations from SPCBs and PCCs varies from State to State. Majority of local bodies existing in the state of Andhra Pradesh, Karnataka, Himachal Pradesh, Tripura, Gujarat, Maharashtra and West Bengal have been covered for authorizations by the respective SPCBs.

1.2 Implementation of Schedule-III

“Setting up of Waste Processing Facilities”

- States like Andhra Pradesh, Karnataka, Himachal Pradesh, Gujarat, Maharashtra and West Bengal have taken steps to set up compost plants, State level policies have been formulated by the States of Andhra Pradesh and West Bengal for setting up of compost plants.
- Regarding waste-to-energy projects, except at four locations in Andhra Pradesh, and a few projects in Karnataka and Kerala, no other States have reported for setting-up of such Plants.

1.3 Implementation of Schedule-IV- ‘Landfilling’

- As per information provided by SPCBs, landfill facilities have been constructed at; Bangalore, Mangalore, Karwar, Puttur, Ankola, Surat, Alang, Nashik, Ambad, Sonpeth, Vizianagaram (AP), Jodhpur, Sirsa and Ambala.
- Regional/common landfill facilities are under construction at Ahmedabad, North Dum-Dum and New Barrackpore and Chandigarh.

2.0 Overall Implementation Status

Unless, Guiding Groups/Cells are set-up at Central, State and District Level to assist local bodies in organizing themselves to comply with the Rules, it will be difficult to achieve satisfactory compliance. There is need to develop good and adequate private entrepreneurship to participate in waste management to cover the country.

Status of Authorisations granted by SCPBs/PCCs

S. No	States/UTs	No. of local bodies	Authorisations granted during 2006-07		Cumulative valid authorization
			No. of applications	Nos Granted	
1	Andaman Nicobar	01	Nil	Nil	01
2	Andhra Pradesh	124	56	27	93 (66+27)
3	Arunachal Pradesh	INR	INR	INR	INR
4	Assam	85	2	1	23
5	Bihar	122	42	Nil	Nil
6	Chandigarh	1	2	2	2
7	Chhatisgarh	110	Nil	01	58
8	Daman Diu	03	Nil	Nil	Nil
9	Delhi	03	03	03	03
10	Goa	13	13	13	13
11	Gujarat	174	6	1	142
12	Haryana	68	Nil	Nil	Nil
13	Himachal Pradesh	56	56 (18+38)	28(11+17)	41
14	Jammu & Kashmir	INR	INR	INR	INR
15	Jharkhand	INR	INR	INR	INR
16	Karnataka	226	226	226	226
17	Kerala	58	09	03	08
18	Lakshadweep	1	Nil	Nil	Nil
19	Madhya Pradesh	339	46	29	85
20	Maharashtra	252	93	79	246
21	Manipur	09	Nil	Nil	Nil
22	Meghalaya	07	Nil	Nil	2
23	Mizoram	01	Nil	Nil	01
24	Nagaland	06	01	01	01
25	Orissa	103	05	Nil	11
26	Puducherry	15	Nil	Nil	3
27	Punjab	103	27	27	27
28	Rajasthan	183	22	06	15
29	Sikkim	01	Nil	Nil	Nil
30	Tamil Nadu	719	17	17	62
31	Tripura	13	13	13	13
32	Uttar Pradesh	INR	INR	INR	INR
33	Uttarakhand	68	35	1	1
34	West Bengal	126	104	49	49

INR - Information not received

Implementation Status of Schedule IV

S.No	States	Compost Plants		Vermi compost	
		Commissioned	Planned/ proposed/ UC	Commissi- oned	Planned
1	Andaman Nicobar	Nil	Nil	Nil	Nil
2	Andhra Pradesh	Vijaywada, Surya pet, Kadapa, Man depet, Ramgun- dam, Adilabad			
3	Arunachal Pradesh	INR	INR	INR	INR
4	Assam	Kamroop	Guwhati, Dibrugarh Silchar Sibsagar	Nil	Nil
5	Bihar	Nil	Nil	Nil	Nil
6	Chandigarh	Nil	Nil	Nil	Nil
7	Chhatisgarh	12	12		
8	Daman Diu	Nil	Nil	Nil	Nil
9	Delhi	Delhi (2)	Nil		
10	Goa	In Vasco, 70 de- centraised com- posting plants in Panjim	15 in Panda	Nil	Nil
11	Gujarat	Ahemdabad, Rajkot, Valsod Vadodara	96ULBs+31 New ULBs identified for vermicompost and 34 ULBs for composting	Nil	Nil
12	Haryana	Nil	Nil	Nil	Nil
13	Himachal Pradesh	Shimla, Kullu/ Bunter, Manali, Solan, Kangra/ Nagrota, Nahan, Una and Himirpur	Dharamsala, Poonta, Palampur Nalagarh Mandi		
14	J & K	INR	INR	INR	INR
15	Jharkhand	INR	INR	INR	INR
16	Karnataka	Mangalore, Bangalore	Nirmal Nagar (8 ULBs)	Nil	Nil
17	Kerala	16	12	7	1
18	Lakshadweep	25 units	Nil	(25 units)	Nil
19	Madhya Pradesh	4	67	8	36

S.No	States	Compost Plants		Vermi compost	
		Commissioned	Planned/ proposed/ UC	Commis- ioned	Planned
20	Maharashtra	12 Akola,Pune, Pimpri-Chincha- wad, Kolhapur, Ambad,Nagpur, Sonpath, Murad- Navapur,Janjira, Mira-Bhayander, Nashik, Ahemdnagar	Baramati Jalana	Ambernath	Shegaon, Pondharpur Bhandara Dahanu Panvel
21	Manipur	Nil	Imphal	Nil	Bishnupur Thousbal, Morch Jin Kakching
22	Meghalaya	Shillong	Tura	Nil	Tura
23	Mizoram	Nil	Nil	Nil	Nil
24	Nagaland	Nil	Kohima	Nil	Nil
25	Orissa	(2) Puri Paradeep	14	Nil	1
26	Puducherry	Puducherry, Outgaret, Karaikal, Nedungadu	1+	1+	Nil
27	Punjab	Nil	5	Nil	Nil
28	Rajasthan	Vijaywada Suryapet Kadapa Mandapet Ramgundram Adilabed	All proposed under 12 th FC	Nil	Nil
29	Sikkim				
30	Tamil Nadu	Tiruppur, Namakkal	Udumalpet	Nil	Nil
31	Tirpura	Nil	Agartala	Beleniga Kumarghat	Amapur,Kh owai, Dharmanag ar,Kanalpur Ranibazar Udaipur
32	Uttrakhand	Nil	Pithoragarh, Uttarkashi Nainital	Nil	Nil
33	Uttar Pradesh				
34	West Bengal	Kolkata + 7 ULBs	28	05	Nil

SETTING UP OF WASTE-TO-ENERGY PROJECTS

S.No	States/UTs	Waste to Energy Projects	
		Commissioned	Planned
1	Andaman Nicobar	Nil	Nil
2	Andhra Pradesh	Hyderabad(RDF),Vijaywada (RDF), Guntur (RDF), Vijaywada (Bio-methanisation)	45 (7 WTE for 3.9 ULBS)
3	Arunachal Pradesh	INR *	INR
4	Assam	Nil	Nil
5	Bihar	Nil	Nil
6	Chandigarh		One-under construction
7	Chattishgarh	Nil	Nil
8	Daman Diu		
9	Delhi	Nil	Nil
10	Goa	Nil	One planned for Panjim
11	Gujarat		
12	Haryana	Nil	Nil
13	Himachal Pradesh		
14	Jharkhand	INR	INR
15	Jammu & Kashmir	INR	INR
16	Karnataka	Nil	Bangalore
17	Kerala	15 **	3 **
18	Kohima	Nil	Nil
19	Lakshadweep	Nil	Nil
20	Madhya Pradesh	Nil	Nil
21	Maharashtra	Nil	Nil
22	Manipur	Nil	Nil
23	Mizoram	Nil	Nil
24	Meghalaya	Nil	Nil
25	Orissa	Nil	1 (Cuttak + Bhubanesar)
26	Punjab	Nil	Nil
27	Puducherry	Nil	Nil
28	Rajasthan	2	2
29	Sikkim	Nil	Nil
30	Tamil Nadu	Nil	Nil
31	Tripura	Nil	Nil
32	Uttarakhand	Nil	Nil
33	Uttar Pradesh	INR	INR
34	West Bengal	Nil	Nil

INR* - Information not received

** - Bio gas Plants

SETTING UP OF LANDFILL FACILITIES FOR WASTE DISPOSAL

S. No.	States/UTs	Landfill constructed	Initiatives taken	No. of sites identified
1	Andaman Nicobar	Nil	Port Blair	1
2	Andhra Pradesh	Vizianagaram	Suryapet, Hyderabad, Vijaywada, Vizianagaram	61 (ULBs)
3	Arunachal Pradesh	INR	INR	INR
4	Bihar	Nil	Nil	Nil
5	Chandigarh	Site under construction	-	-
6	Chhatisgarh	Nil	Nil	66
7	Daman Diu	Nil	Daman & DNH	01 (Dadra)
8	Delhi	Nil	Nil	Nil
9	Goa	Nil	Nil	13
10	Gujarat	Surat, Alang	Common site for 12 ULBs of AUDA	142
11	Guwahati	Nil	Nil	1
12	Haryana	Sirsa	Faridabad, Hissar, Ambala, Gurgaon	35
13	Himachal Pradesh	None	Shimla, Chowari, Chamba, Nalagarh, Palampur	52
14	Jharkhand	INR	INR	INR
15	J & K	INR	INR	INR
16	Kerala	Nil	Kozhikode	53
17	Karnataka	Bangalore, Mangalore, Karwar, Puttur, Ankola	Sirsi, Dandeli, Bhatkal, Kundapur, Udipi and Chickmngalore	Remaining 213 local bodies have identified the sites.
18	Lakshadweep	Nil	Nil	Nil
19	Madhya Pradesh	22	130	305
20	Maharashtra	Nasik, Sonpeth, Ambad	Jalna, Navapur, Pune, Meurrd-Janjira, Pimpri, Chinchawad	241
21	Manipur	Nil	Imphal, Bishuper, Jin, Thoubal, Kakching, March	One each(6)
22	Mizoram	Nil	Nil	Nil
23	Meghalaya	Nil	Shillong	04
24	Nagaland	Nil	Kohima	01
25	Orissa	Nil	03	51
26	Punjab	Nil	Nil	Nil
27	Puducherry	Nil	Puducherry	1
28	Rajasthan	Jodhpur	Proposed in 14 towns	152
29	Sikkim	Nil	South-West District of Sikkim	1
30	Tamil Nadu	Nil	Namakkal, Tiruppur, Udumalpet	104
31	Tripura	Nil	Agartala	8
32	Uttar Pradesh	INR	INR	INR
33	Uttarakhand	Nil	Nil	Nil
34	West Bengal	Under construction at ND&NB	30	30

Implementation Status of Schedule-II

S. No	States/UT	Local bodies taken initiatives for improving collection, segregation, storage and Transportation of waste
1	Andaman Nicobar	At Port Blair covering 21000 houses
2	Andhra Pradesh	House-to-house collection started in all the local bodies.
3	Arunachal Pradesh	Itanagar-Naharlagun
4	Assam	Guwhati, Silchar
5	Bihar	Yet to be started
6	Chandigarh	House-to-house collection of waste widely practiced.
7	Chhatisgarh	Initiated by 58 local bodies.
8	Daman Diu & DNH	Yet to be started
9	Delhi	On-going in some of the zones and transportation is
10	Goa	Panjim and in other towns.
11	Gujarat	73 local bodies have taken initiatives (Ahemdabad, Surat, Bejalpur, Gandhinagar, Modasa, Himmatnagar, Nadiad, Navsari, Alang, Vasal
12	Haryana	
13	Himachal Pradesh	Initiated at Shimla, Mandi and Hamirpur
14	J&K	INR
15	Jharkhand	INR
16	Karnataka	Initiated by 60 ULBs
17	Kerala	Many towns are covered
18	Lakshadweep	Kavarati
19	Madhya Pradesh	<ul style="list-style-type: none"> • 33 local bodies have taken some initiatives (Bhopal, Indore, Rewa, Gwalior, Shahdol, Amarkantak, Chandi, Ujmariya, etc.) • House-to-house collection of waste is started in 3139 Wards out of 4493 and segregation of waste is started in 1932 Wards
20	Maharashtra	Local bodies at several places have organized collection of MSW by house-to-house collection by using Ghanta Gadies and collection bins. (Pune, Nasik, Nagpur, Mumbai and others)
21	Manipur	Yet to be started
22	Mizoram	Initiated for Aizwal.
23	Meghalaya	Initiated in some of the Wards at :Shillong, Jowai, Tura, Williamnagar, Baghmora, Resubelpara.
24	Nagaland	Kohima, Dimapur
25	Orissa	Yet to be started
26	Punjab	Being proposed at Mandi Gobindgarh and Kartarpur
27	Puducherry	Puducherry, Karaikal
28	Rajasthan	14 ULBs have taken steps
29	Sikkim	Gangtok and S-W Districts
30	Tamil Nadu	Tiruppur, Namakkal, Udumalpet, Ooty and others
31	Tripura	Partially done at Agartala
32	Uttar Pradesh	Lucknow, Kanpur (in selected wards)
33	Uttarnachal	Pithoragarh

S.No	States/UT	Local bodies taken initiatives for improving collection, segregation, storage and Transportation of waste
34	West Bengal	<ul style="list-style-type: none">• Out of 126 local bodies, 119 have taken some initiatives.• House-to-house collection of waste (>50% coverage) for Barrackpore, Bidhannagar, Dum Dum, Kamarhati Kacharapara, Khardaha, Madhyamgrams, Naihati, New Barrackpore, North Barrackpore, North Dum Dum, Rajarhat-Gopalpur, South Dum Dum, Rajpur-Sonarpur, Kulti, Suri, Cooch Behar, Siliguri, Bhadreswar, Rishra, Uttarpara-Kottang, Bally, Howrah, Kolkata, English Bazar, Kharagpur, Kandi, Nalsadwip, Balurghat

SUMMARY OF DEMO PROJECT ON IMPLEMENTATION OF MSW RULES

S. No	City/Town	Area of City/Town (sq. km)	Population	Quantity of waste generation (MT/day)	No. of Wards	Project components for Demo-Project	Date of start & Duration	Remarks
1	North Dum Dum & Barrackpore (West Bengal)	26.45 16.89	220000 83000	70 25	30 19	<ul style="list-style-type: none"> ▪ <u>Phase-I</u>: Waste Collection, Segregation, Storage and transportation (Schedule-II) ▪ <u>Phase-II</u>: Waste Processing and Disposal 	22.4.03 18 mths --	Completed Phase-II under implementation
2	Chandigarh (UT)	114	9,00,000	300	20 (61 sectors)	<ul style="list-style-type: none"> ▪ <u>Phase-I</u>: Waste collection, segregation, storage and Transportation (Schedule-II) ▪ <u>Phase-II</u> 	16.04.03 18 mths --	Under implementation. 70% completed under Phase-I. Phase-II under construction
3	Udumalpet (Tamil Nadu)	7.41	58,893	30	33	<u>Total Project</u> : Waste collection, segregation, storage, transportation, Processing and disposal	10.10.04 24 mths	Waste collection and transportation covered for 80% town. Work relating to Processing and Disposal is in progress
4	Kohima (Nagaland)	30	78,584	35	19	<ul style="list-style-type: none"> ▪ <u>Phase-I</u> : Waste collection, segregation and transportation ▪ <u>Phase-II</u> : DPR to be received on disposal 	12.09.05 36 mths	After procurement of tools/equipment, waste collection is spread over the town. Site for landfilling and processing is identified.

S. No	City/Town	Area of City/ Town (sq. km)	Population	Quantity of waste generation (MT/day)	No. of Wards	Project components for Demo-Project	Date of start & Duration	Remarks
5	Mandi (Himachal Pradesh)	4.26	35,000	24	13	<ul style="list-style-type: none"> ▪ <u>Phase-I</u>: Waste collection, segregation, storage and transportation. ▪ <u>Phase-II</u>: DPR for Processing and disposal to be prepared 	14.09.05 36 mths	Tools/equipment are under procurement
6	Suryapet (Andhra Pradesh)	34	1,03,000	32	34	<u>Total Scheme</u> : Waste collection, segregation, storage, transportation, processing and disposal	22.09.05 24 mths	Work relating to waste collection, segregation, storage and transportation has been completed. Vermicomposed plant has been set up.
7	Itanagar (Arunachal Pradesh)	135	100000	42	59 (35+24)	Total scheme:	12.01.06 24 mths	Tools/ equipment under procurement. Site for landfill is under acquisition.
8	South –West Districts of Sikkim	50	1,16,000	42	--	Total Scheme:	08.02.06 24 mths	Tools/equipments are under procurement and action plans prepared for setting up of compost plant.
9	Jalna (Mahaashtra)	70.87	2,35,000	50	18	Total Scheme	12.01.06 24 mths	Action Plan prepared for waste handling and steps are planned for setting up of waste processing and disposal facility.
10	Agartala (Tripura)	58.84	3,67,822	200	35	<ul style="list-style-type: none"> ▪ <u>Phase-I</u>: Waste collection, segregation, storage and transportation ▪ <u>Phase-II</u>: DPR to be prepared for waste processing and disposal 	07.02.06 36 mths	Tools/equipment (partially) processed and wards in central area selected for execution of waste handling. Plans finalized for setting up of compost plant and landfill facility.

