



Swachh Bharat Mission - Urban STAR RATINGS for GARBAGE FREE CITIES

























- Garbage Free Protocol
 - Vision and Definition
 - * Key Components and Features
 - * Assessment Mechanism
 - Protocol for self-declaration and third party verification
 - Citizen/Stakeholder engagement in achieving Star Rating

How is it different from Swachh Survekshan?



HOW?

Many cities can have the same high star rating simultaneously while in Swachh Survekshan only one city can be adjudged the "Cleanest city"

Sustainable + Institutionalised

What is a Garbage Free City



GARBAGE FREE CITY





No garbage or litter is found in any public, commercial or residential locations



All legacy waste has been remediated



100% waste generated is scientifically managed including plastic and C&D waste



No garbage or litter is found in any storm drains and water bodies in the city



Steady reduction in the waste generated by the city



Visible beautification of the city

SEVEN STAR RATING devised to ensure holistic evaluation across entire SWM Chain



Door to Door Collection



Segregation at Source



Sweeping of public, commercial & residential areas (no visible eyesores)



4 Waste Storage Bins, Litter Bins and Material Recovery Facility



User Fees, Penalties, Spot Fines for littering and enforcement of plastic ban



Bulk Waste Generators Compliance



Scientific Waste Processing, Scientific Landfilling and C&D Waste Management



8 Citizen Grievance Redressal and feedback system



Eradication of crude dumping of garbage and dump remediation



10 Cleaning of storm drains and surface of water bodies



Visible beautification in the city



Waste reduction



SMART Rating



SINGLE METRIC

MEASURABLE

Achievable

Rigorous VERIFICATION

Targeted Towards outcomes

One rating comprising all components of SWM

E.g. what % of door to door collection is taking place in the city? What % of waste is processed?

All parameters are based on citizen's expectations of the ULB therefore achievable

Similar to ODF Certification, declaration by city is assessed by Third Party Agency

Does not score on inputs, processes but solely on outcomes. E.g. dumpsite remediated, waste processed, etc.

Additional features of Star Rating



PROGRESSIVE

Increasing levels of stringency to spring-board city's journey towards 'swachhata'

TRUST COMPONENT

The assessment & verification for 1, 2 and 4
Star are to be carried out by cities and states
therefore based on trust

ASPIRATIONAL

7 star includes over-the-top
aspirational criteria such
as beautification &
reduction in waste generated
by the city

PARTICIPATORY

Citizens from different categories are to be involved through citizen declarations

SUSTAINABLE

Six levels of ratings for cities to continuously work towards higher rating. Reverification of rating after one year

INTER-LINKED

City has to be certified as

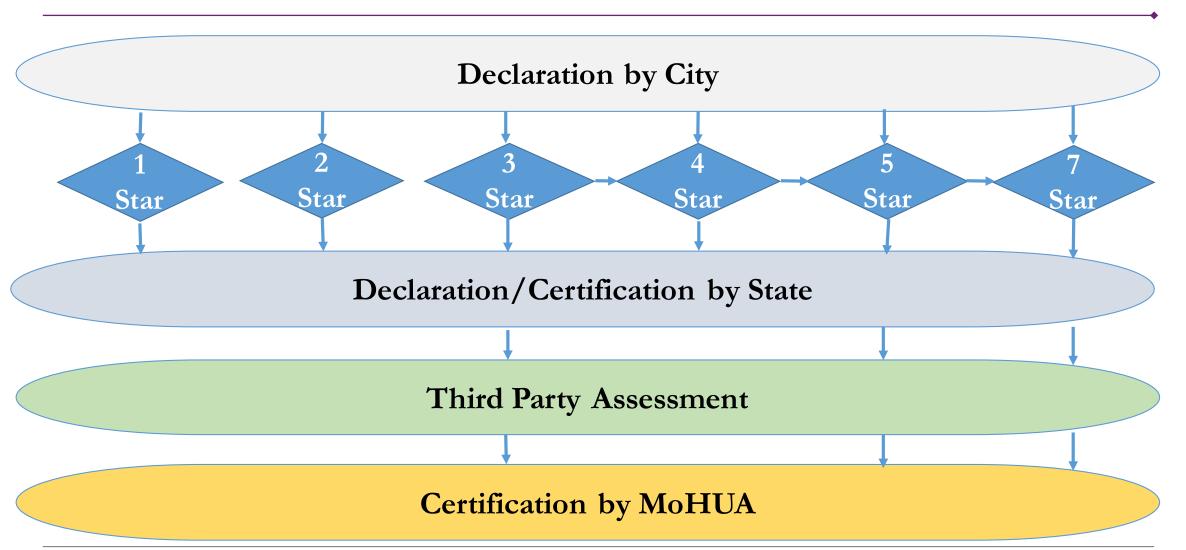
Open Defecation Free in

order to apply for 3 Star

and above rating

Star Rating Process Flow





Assessment mechanism for Star Rating



Self-assessment

1. Cities fulfilling the necessary conditions for Star Rating will have to carry out self-assessment (verification with MoHUA MIS) as per the methodology of the protocol.

Self-assessment tool will be available on SBM Portal.

Declaration of Star Rating

- 1. The ULB may follow prescribed steps to self declare the star rating of the city
- 2. For 3, 5 and 7 star ratings, request to be communicated to MoHUA through the State Govt. request for third party verification.
- 3. State Govt. at their discretion may take up similar third party verification for the remaining 1, 2 & 4 Star ratings.

Citizen involvement through
system of citizen declarations for
declaring any star rating

Third Party Certification (only for 3, 5 & 7 Stars)

- 1. MoHUA will take up independent verification and validation through a third party agency and will only recognize the MoHUA-TPA certified/ re-certified cities
- 2. Third party certification will be valid for one (1) year and city will have to be re-assessed and recertified every 12 months.

City has to be certified ODF (1, 2, 3 and 4 Star), ODF+ (5 Star) and ODF++ (7 Star)

Protocol for Self Declaration by city for GF Star Rating



- All 'necessary conditions' for relevant Star Rating have been met by all wards* of the city
- For Star Rating '7', all the **additional conditions** have been met by all wards
- City should be certified ODF (1, 2, 3 and 4 Star), ODF+ (5 Star) and ODF++ (7 Star)
- State Government may write formally to MoHUA communicating self-declared star rating of city and request TP certification (3, 5 & 7 Star)
- For remaining ratings (1-Star, 2-Star and 4-Star), State Govt. may itself, through a third party, carry out certification and communicate to MoHUA

- Self-declaration from citizen categories (as per population) that the city fulfils all conditions for the specific star rating
- All BWGs in the ward should provide self-declaration that they are managing their waste as per SWM Rules 2016 and Municipal Byelaws (3 star & above)

- Declarations to be obtained from all ward members of the city/town, without exception#
- Submit these to city municipal administration as per due process
- Lowest rating obtained by any ward will become that of the city

City Council may
then pass a
preliminary
resolution declaring
the city to be GF as
per relevant star rating

A suitable public announcement (in highest circulating local newspaper) mentioning feedback/suggestion mechanism may be made for the same.

(Govt. notification may be made on the state/city

- Public objections/feedback may be invited, within 15 days
- If no objections are received at the end of this time, a final resolution is adopted by the City Council and the same is communicated to respective State Govt.

^{*} Circles if the city is divided into circles instead of wards

[#] In exceptional circumstances when a ward-member/councillor/Corporator is not willing to giver declaration for his/her ward even after two formal requests from the city commissioner with a feasible time gap, then a 5 member committee may be appointed to sign declaration for that ward. The committee will consists of: Municipal Commissioner, Chairman, corresponding ward-member, 2 prominent citizens of the city appointed by Chairman.

Citizen Declarations



Number of citizen declarations required for declaration will be classified based on population:

- >5 Lakh population: 6 citizen categories (5 citizen representatives from each)
- 1-5 Lakh population: 4 citizen categories (3 citizen representatives from each)
- < 1 Lakh population: 3 citizen categories (2 citizen representatives from each)

MANDATORY*

- School children (age more than 14 years)
- Central/ State Government Offices/ Banks
- Self Help Group/ Civil Society Organisations/ Non-Governmental Organisations
- Resident Welfare Associations/ Gated Societies/ Housing Complexes (In case these are not present, declarations from 10 residents to be taken)

ADDITIONAL

- Business Organisations (Market Associations, Hotel Associations, Business Associations, Transport Associations, Railways/Bus/Transport Hub Managers, Trade Associations, Professional associations)
- Hospitals (min. 10 beds)
- Private sector organisations (min. 50 employees)
- Prominent personalities including SBM ambassadors, government officers (excluding municipal officers) / public sector officers (head of department/head of organisation) equivalent to the rank of Under Secretary (US) GoI, bank officers (branch head, head of department)



^{*}In case any category is not present then equivalent no. of declarations from citizens in additional categories may be taken with declaration from Municipal Commissioner mentioning unavailability of citizens of a particular category.

Methods of engaging with key citizen categories



Resident Welfare

- Door to door campaigns in residential areas to create awareness about source segregation and
 - showcase on-site composting techniques & its benefits
- Door to door or other campaigns on the need for and ways of keeping a litter free environment
- Associations Awards for cleanest RWAs to generate a healthy spirit of competitiveness
 - Encourage to adopt nearby areas and take ownership to ensure these become 'garbage-free'

• Invite students and staff to experience the complete waste management chain, from collection

School Children &

Self-Help

Groups

NGOs

Staff

- to disposal, and sensitize them about their role in making this chain more effective
- Make students the youth ambassadors of the message of 'Garbage-Free Cities'
- Awareness and sensitization sessions/workshops on importance of segregation and its longterm impact on public health through diversion of waste from landfills
- Involvement of SHGs in the waste management value chain, as formalized contributors

- Partner with NGOs to conduct community mobilization drives on various SWM interventions
- Identify avenues for NGOs to contribute to door-to-door campaigns, sensitisation drives, cleanliness drives, etc. envisioned by the ULB
- Hotel
- Award for most "Swachh" hotel, that segregates waste and has minimal waste output, along with user fee discount
- Association Prominent Persons
 - Make them "Swachh Champions" for their neighborhoods, promote the message of segregation and decentralized processing.

Methods of engaging with key citizen categories



Private sector organisations

- Encourage to adopt nearby areas and take ownership to ensure these are 'garbage-free' zones
- User fee discounts for doing on-site composting and having dry waste recycled

All Swachhagrahis

- To be given ownership of areas to monitor garbage free status of that area, such as littering, garbage vulnerable points, etc.
- Competition aspect may be introduced among Swachhagrahis

Senior Central/State Govt./Bank Officials

- Discussions and workshop on the importance of segregating and managing own waste till the extent possible
- Request to appoint Swachhata monitoring officials to be in-charge departmental waste segregation

Hospital authorities

- Award for most "Swachh" hospital premises, that segregate waste and manage wet waste on-site
- Discussion meetings on segregation of waste and on-site composting/processing of wet waste from hospital canteens

Transport authorities

Association

- Awards for most "Swachh" bus station / taxi stand / truck depot, etc.
- Placement of compartmentalized/twin bins at all transport hubs for safe and segregated waste disposal by commuters

Market co

- Communicate waste collection schedule to market association/vendors to ensure segregated collection of waste and handover of dry waste to authorised recyclers
- Training and orientation sessions for shopkeepers/associations on importance of segregation and decentralised waste management
- Joint IEC activities for awareness creation of customers

Protocol for Third Party Certification for GF Star Rating



a) City self-declares itself as GF '3', '5' or '7' Star (as applicable) and communicates the same to MoHUA through the State SBM Mission Directorate

b) Upon request by MoHUA, a third party (appointed by MoHUA) will mobilize assessors to conduct the verification.

c) For the verification, the third party agency will assess both Service Level Status as well as conduct Independent Observation

f) GF Star Rating certificate will need to be recertified annually (every 12 months) upon receiving request by the city. The third party will repeat step (c) for recertification.

e) MoHUA will subsequently issue the relevant Star Rating to the city for the same based upon the recommendation of the Third Party

d) Based upon the assessment, TPA will make recommendations to MoHUA for cities to be rated as per GF Star Rating, protocol

Protocol for Third Party Certification for GF Star Rating



SERVICE LEVEL STATUS

- Preliminary data will be collected in advance by a process of self-assessment from cities (verification with MoHUA MIS) as per the defined protocol. The city will fill the city profile provided by MoHUA.
- Third party assessors will visit cities to review documentation and collect the data systematically ensuring that the process is independent and unbiased.

INDEPENDENT OBSERVATIONS

- Collection of data will be based on physical observation of the households/premises* by the third party assessors
- Third party will also interact with respective citizens to validate the service level status claimed by the city. The structured questionnaire to facilitate citizen validation will be created by the third party in consultation with MoHUA
- Assessors will use IT enabled devices to record their observations and findings along with photographs
- Third party will systematically collect photos as evidence for field observations ensuring that the location, date and time are tagged

*public & commercial areas (including market areas, railway stations, bus stations, other transport hubs, schools, colleges, hospitals, offices, religious areas, industrial areas, institutional areas, ULB managed parking areas, ULB managed parks & gardens), residential areas, water bodies, storm drainage system, roads and streets, and other relevant areas

Third Party Certification: Independent Observation Locations

• Cities will be assessed ward-wise. The number/percentage of locations/checkpoints, of the total claimed locations, to be visited in each ward for purpose of physical observation is provided below.

No. of locations / checkpoints per ward

Water-bodies with public access and Storm Water Drains of the identified sampled areas

Location Type	140. of focations/ checkbonits per ward
Residential Areas	5
Roads and Streets	Roads and Streets of the identified sampled areas
Market Areas*	5
Parks & Gardens**	Minimum 3 or actual no. of parks and gardens
Bulk Waste Generators	Minimum 10 or 5% of BWGs (in case less than 10, all BWGs as per service level status documentation shall be assessed)
Transport Hubs	Railway/Metro Stations, Bus Stations, Airports, Taxi stands, and other Transport Hubs. (At least one of each category of transport hub shall be checked)
Industrial Areas	Industrial and Institutional areas (if applicable)

**Greenspaces that are not part of roads & have play-fields for public use, roundabouts and greenspaces under bridges are excluded

All functional plants

All identified dumpsite(s)

Existing SLF

***Include religious sites, historic sites, etc.

Location Type

Water Bodies & Storm Water Drains

MSW Processing Plants

Scientific Landfill

Dumpsite

^{*}Shops, offices, agriculture mandis, meat markets, as applicable

Third Party Certification: Citizen Validations

As part of the physical observation, assessor should also interact with respective citizens to validate the service level status claimed by the ULB.

S. No.	Category#	No. of Citizen Validations per ward*^
1	Households (including slums)	Minimum 50 or .5% of no. of HHLs as per SLS documentation, whichever is higher
2	Shops/Street Vendors	Minimum 10 or 1% of no. of shops/Street vendors, whichever is higher
3	Schools/Colleges/Education	Minimum 10 or 10% of the total number of schools/colleges/education institutions,
3	Institutions	whichever is higher
1	Hotels/Guest	Minimum 10 or 5% of the total number of Hotels/Guest houses/Dharmshalas, whichever
4	Houses/Dharmshalas	is higher
5	Restaurants/Dhabas/Eateries	Minimum 10 or 5% of the total number of Restaurants/Dhabas, whichever is higher
6	Bulk Waste Generators	Minimum 10 or 5% of the total number of Bulk Waste Generators, whichever is higher
7	Offices (Private &	Minimum 10 or 1% of the total number of Offices (Private and Government), whichever is
	Government)	higher
8	Tourist areas	Minimum 5 or 10% of the total number of Tourist areas, whichever is higher
9	Parks & Gardens	5 citizens in all the parks & gardens covered under independent observation
10	Transport Hubs	5 citizens in each category of transport hub covered under independent observation

^{*}For categories 1 to 8, in case less than the minimum number defined above, all shall be covered. These validations should be exclusive among citizen categories, for example: one citizen can only validate for one category.

[#]For categories 2 to 8, owners/responsible persons of respective category shall be surveyed to validate service level delivery status ^Success criteria of 90% will be used to validate claims made by the city. For example, 9 of 10 validations shall agree with city claims.

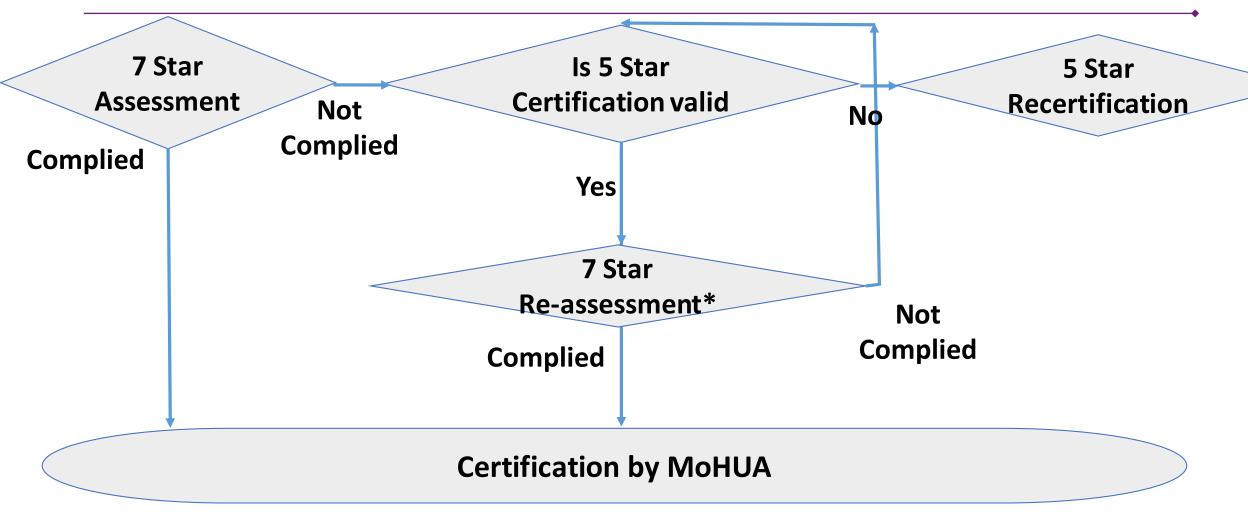
Additional conditions for applying for certain star ratings



- PROGRESSIVE: Any city can declare itself for any star rating however for declaration/certification for 4 star & above, city must have valid Third Party certification for lower rating (i.e. 3 star in case of 4 star declaration/certification; 4 star in case of 5 star declaration/certification; 5 star in case of 7 star declaration/certification)
- TPA FAILURE: In case city fails third party assessment for 3, 5 or 7 star certification, it DOES NOT automatically achieve certification for lower star rating. It can undergo reassessment after a cooling-off period of 1 month. City either needs to have a valid lower declaration/certification or need to recertify itself for lower rating before undergoing for reassessment
- CONTINOUS: City can declare and apply for certification for higher star rating at any point after achieving a specific star rating. No time gap is required.

Third Party Assessment - Example





^{*} After a cooling off period of one month

Date:

Seal



Format for declaration to be submitted by City / town

,
All Councillors/Corporators/Ward Members in the city / town have submitted their self-declarations regarding garbage free status (as per relevant star rating)
Preliminary resolution has been passed declaring the city / town as Garbage Free1/2/3/4/5/6/7 (strike off as applicable) Star; Above resolution has been publicly announced (in print media), inviting public feedback / objection within 15 days of announcement Since no objections have been received within the stipulated time period / since objections and feedback received from the public have been rectified, a final resolution has been adopted by this ULB to declare the city as Garbage Free1/2/3/4/5/6/7 (strike off a applicable) Star
This final resolution is being communicated to the Government of(State/Union Territory) for further communication to MoHUA for record and further third-party verification (applicable for Star Rating '3', '5' and '7') (Resolution Number)
Accordingly,
(Signature, and Name of Mayor / Chairperson/ Chief Officer/ Municipal Commissioner)



Format for declaration to be submitted by Ward Councillor

•	(ward details), under nayat / cantonment board) do hereby declare that the ng1/2/3/4/5/7 (strike off as applicable)	· ·
Address: Phone Number:	(Signature, and Name of Ward Councillor/Corporat	tor)
Date:		
Seal:		



Format for self-declaration to be submitted by Bulk Waste Generators (wherever applicable)

I,(name), authorized representative on behalf of
(Signature and Name of authorized representative of bulk waste generator) Address: Phone Number:
Date:
Seal:



Format for self-declaration to be submitted by citizen representatives

I,(name), authorized representative on behalf of(name of citizen category) in (name of ULB/ Municipal corporation / municipality/ town panchayat/ cantonment board) do hereby declare that the city is in compliance with a necessary conditions of Garbage Free Star Rating1/2/3/4/5/7 (strike off as applicable)
Date:
Seal:

- Door-to-Door Collection
- Segregation at Source
- Sweeping of residential, public & commercial areas
- Litter Bins, Waste Storage and Material Recovery Facility

CONDITION

Component 1: Door to Door Collection



Atleast 'x' percent of households/ premises in the city are covered by door-to-door collection and transportation of solid waste (through ULB/ULB-authorised garbage collectors)

Note: Waste collector needs to inform each household/premise to provide their waste

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
At least 60 %	Atleast 80 %	100 %			

- Ward wise staff deployment plan/Copy of Log Book or any other ward-wise record for waste collection from commercial areas and residential areas from the previous two quarters prior to date of self-declaration of star rating.
- Copy of contract and payment/activity report if this service has been outsourced. Contract should be signed atleast six months prior to date of self-declaration of star rating

Door to Door Collection Suggested Interventions



- Ensure adequate manpower (integrating informal waste pickers, outsourcing, etc.) and equipment provisions
- Installation of **GPS/RFID system** on waste collection trucks/vehicles to ensure route and household coverage **Felicitation of best performing** waste collection trucks/vehicle drivers
- **ICT-enabled monitoring** of D2D collection activities (biometric staff attendance system, route mapping, Household RFID tags, mobile applications, camera-based surveillance, etc.)
- If work is outsourced to an external agency, insert a clause in the contract for performance-based payments
- Establish weighing mechanism at transfer station/processing/disposal site to record vehicle weight with & without garbage
- Staff at transfer station/ processing/ disposal site must check that waste collected only contains Municipal Solid Waste (MSW) no waste from other waste streams, Biomedical waste, Inert waste, Industrial Waste etc.
- Establish separate collection systems for separate waste streams [household, commercial, street sweeping, silt removed C&D waste, garden/horticulture waste, gobar (animal dung), bulk waste generators (if not managed onsite), etc.] to the extent possible
- Provide **personal protective equipment** to all SWM staff and mandate outsourced agency to also provide
- Ensure regular cleaning of SWM equipment (collection & transportation vehicles, container bins, etc.)
- City should also work towards collecting electronic waste separately and setting appropriate management mechanism

As per SWM Rules, 2016, collect horticulture, parks and garden waste separately and process in the parks and gardens, as far as possible;

Door to Door Collection Suggested Interventions



• Integration of Informal Waste Pickers

- o Carry out field level assessment and identify waste pickers/ self-help groups across the city
- o Conduct enrolment drives to integrate informal waste pickers in the SWM system
- O Make a cooperative/organization of identified informal workers to be integrated to ensure accountability (Incase D2D Collection/Transportation outsourced to third party, encourage them to formally integrate rag pickers in their payroll)
- o Record ward-wise list of waste pickers with ID numbers issued to them
- O Conduct trainings for these stakeholders to ensure proper integration into city's SWM system

Assessment of waste collection trucks/vehicle drivers

- o ULB/ Outsourced Agency should record monthly performance of each vehicle in the form of a Driver's Report card
- o GPS/RFID log, manual entry log and activity report from the last month for each vehicle (any penalties are levied by the ULB based on underperformance being tracked by GPS) should be recorded by ULB/ Outsourced Agency
- O Route map and driver details should be provided to the households and also available in public domain by ULB (Incase of Outsourced Agency, these details should be provided to ULB to share in public domain)

As per SWM Rules, 2016

- Establish a system to recognise organisations of waste pickers or informal waste collectors and promote & establish a system for integration of these authorised waste-pickers & waste collectors to facilitate their participation in SWM including door to door collection of waste;
- Facilitate formation of Self Help Groups, provide identity cards and thereafter encourage integration in SWM

Performance Penalties

The Monitoring System based on self-reporting by the Concessionaire is proposed (refer table no. 1 to 112 in annexure-I). It may be noted all these self-assessment reports shall tally with GPS report (auto analyzed by the computer system) for this monitoring system to properly work.

Penalty for non-conformance shall be imposed by Authority based on one or both of the following:

- (a) Complaint by 2 or more actual users, and validated by field report or GPS system;
- (b) Spot inspection and reporting by Authority officials/appointed Project Monitoring Consultant.
- (c) The penalties imposed on the basis of above MIS reports shall over-ride the self-reporting by the concessionaire, notwithstanding the fact that the self-assessment may have been accepted by the authority. In addition, the Concessionaire shall be given an opportunity of being heard. Certain Tolerance for default(s) are prescribed in the table 1. If the performance of the concessionaire falls below the tolerance level, the penalties are applicable on all defaults (and not just that are in excess of the tolerance limits).

Table 1: Performance Penalties as per the MIS

Default	Penalty/ Deduction	Tolerance	Rectification
1. Deficient Service			
(a) Non-servicing of area covered under door-to-door	Rs. per day for each area not serviced	No penalty if 90% of households covered under door to door get serviced during the day	Within 24 hours
(b) Non-deployment of vehicle / auto tippers		No penalty if 90% routes get serviced during the day	Within 24 hours
(c) Late deployment of vehicle/ Auto tippers		No penalty if 90% of routes are operated within time (upto 1 hour delay) during the day	Within 24 hours
(d) Non-deployment of rickshaws	Rs per day for each route not serviced	No penalties if 90% of rickshaws (as per action plan) do get deployed	Within 24 hours



Reference: Collection & Transportation of MSW, Street Sweeping Waste, Drain Silt, Green Waste and C&D Waste in South, Central, West and Najafgarh Zones on PPP Basis, South Delhi Municipal Corporation

Available on SBM Portal → Knowledge Repositories → Sample RFPs

Door to Door Collection - Best Practices

Pune- Integration of Informal Waste Pickers in D2D collection



Population: ~31 Lakh (Census 2011)

Waste generation: 1550 MTPD

- PMC collaborated with a co-operative society SWaCH to carry out waste collection, segregation and composting activities
- Integrated rag pickers in D2D collection system to ensure better quality of waste and healthier environment of retrieving recyclables
- PMC provided them with I-Cards
- PMC has notified charging of user fees for providing D2D collection services in their by-laws (differential user charges)
- Member performing these services gets to keep the user fees

Currently, 2900 SWaCH members provide survices of D2D collection, secondary segregation, recycling and compositing to 3.5 Lake properties of Prime. Chan, an erentalise ag plelor who not mutte with SWACH without working shad in Prime, "flating my was voold age that his mother picke my me of someone after then about my all a mother picke my my all a someone after then about my life item abou

Benefits

- Savings of about INR 60 Cr. on manpower, transportation & processing
- Formal integration of rag pickers with average earning of INR 12-15,000 per month
- SWaCH along with PMC covers 60% household/ other establishments
- In 2016, SWaCH managed to formally integrate 40% additional rag-pickers and handled a total of 2.57 Lakh Tonnes of waste

Component 2: Segregation at source



Atleast 'x' percent of households/ premises in the city have segregation at source (wet, dry & domestic hazardous) maintained till processing

Note: Waste collector must check that waste is segregated properly by household/premises before collection. Domestic hazardous waste to be disposed in a separate bag and placed in separate area of vehicle

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
At least 25 %	Atleast 50 %	Atleast 80%	100 %		

- Number of vehicles with partition/separate containers for carrying dry and wet waste OR number of vehicles deployed separately for dry and wet waste collection OR separate days are fixed for collection of dry and wet waste (1-2 days in a week is earmarked for dry waste collection; wet waste is collected everyday)
- Waste carrying capacity of these vehicles and number of trips
- Total quantity of wet/dry waste generated daily as per population criteria or real actual available with the ULB
- Log books of transfer stations/ processing plant (centralized or decentralized) indicating daily tonnage of dry & wet wastes received and processed separately

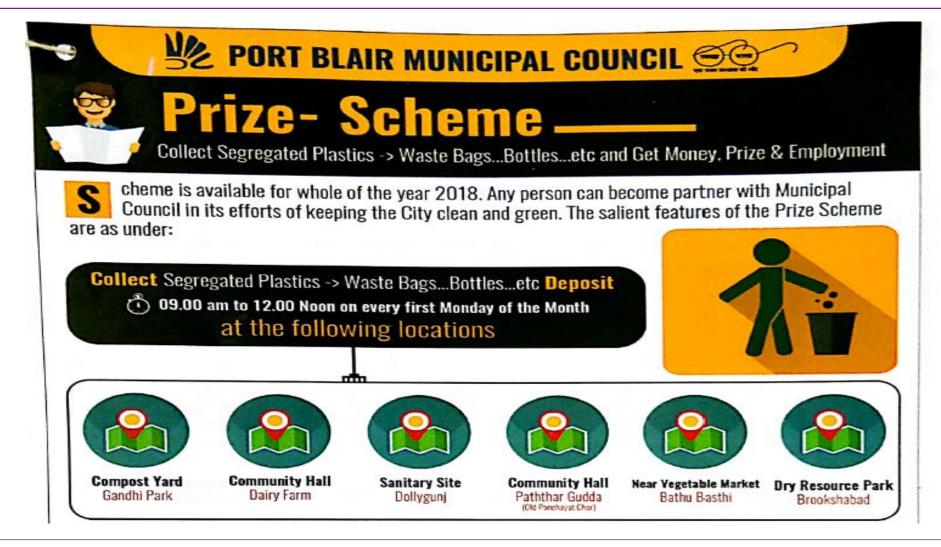
Segregation at SourceSuggested Interventions



- Ensure that provisions for setting up of centers for collection, segregation and storage of segregated wastes, are incorporated in building plan while granting approval of building plan of a group housing society or market complex (as per SWM Rules 2016)
- Awareness drives regarding waste segregation in households/ premises
- Distribution of two bins should NOT be a pre-condition for initiating source segregation in the city
- All waste pickers should be trained to collect dry and wet waste separately
- All waste collection & transportation vehicles to be compartmentalized/ separate vehicles to be deployed to ensure collection and transportation of segregated waste/ separate days are fixed for collection of dry and wet waste
- Data regarding amount of segregated waste collected and transported to be recorded daily
- Ensure that **segregation is maintained across the SWM chain**, i.e. collection, transportation and processing (<u>waste should not be mixed at any stage</u>)
- Incase D2D Collection is outsourced to an agency, ULB should penalize agency for collection of unsegregated waste
- Introduce incentive schemes for onsite composting by households/ premises
- City may ask households to further segregate dry waste (paper, plastic, etc.) at the household level before handing to ULB/collection agency.

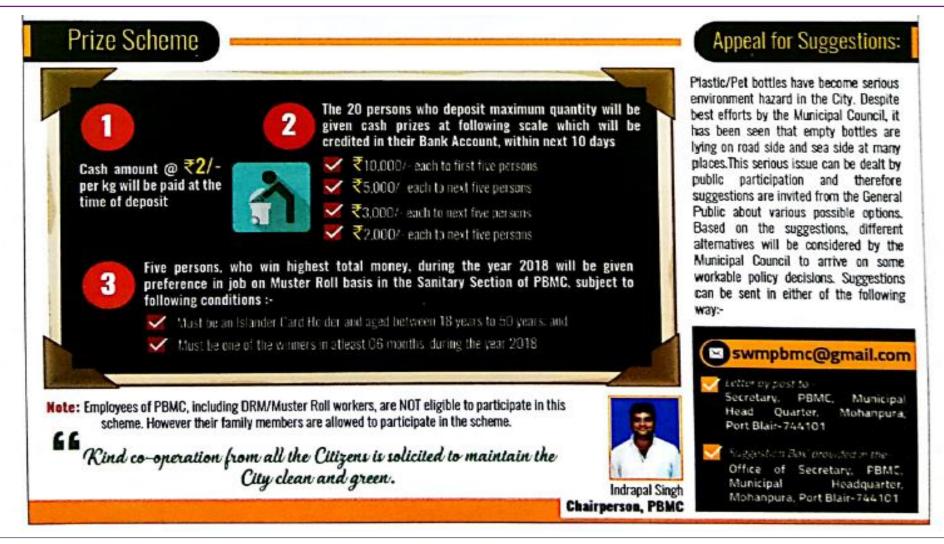
Port-Blair Municipal Corporation - Incentive Scheme





Port-Blair Municipal Corporation - Incentive Scheme





Sanquelim Municipal Council





The competition:

- make The competition will involve collection of segregated dry waste (excluding glass and metal waste) on a weekly basis from schools.
- make The waste collected will be weighed and the student bringing in the highest amount of waste will be given an award at the end of two months.
- The competition will be conducted by Sankhali Municipal Council with the help of the schools in Sankhali
- ∞ The competition will be conducted over a span of two months. (Starting Date -01.12.2017 and Ending Date - 31.01.2018)

Instructions:

- ∞ Students should submit their waste to school representatives in the school premises and they will note down the weight of that garbage in the excel sheet provided by the organizers.
- municipal council representatives will collect the total waste from the school on weekly basis on specified day, which will be communicated later.
- on In case of two or more students having same weight at the end of the competition the highest plastic waste will be considered as overall highest.
- The school should weigh & record details of plastic and paper waste separately. make the student with the highest total weight will be considered as the best Ecopolice of the town.

TYPES OF WASTE TO BE CONSIDERED FOR THE COMPETITION

PLASTIC WASTE

Plastic Bags Thermocol Plastic/PET bottles

ARE AS FOLLOW:

Plastic containers Broken plastic toys Bubble wrap

Take-away containers Plastic Food packets, Pickle packs Mfllk Sachete@tetra.madks Multilayered plastics like chips packets

PAPER WASTE

Boxes Carboard Pamphlets | Paper plates Paper wrappers Chocolate wrappers Envelopes & Covers Cotton& cotton clothes Tickets, Bills, Statements Paper, Book, Magazine

Rewards for students:

- ∞ The student with the highest total among all participants at the end of the Two months will be declared the winner of Sankhali and will be awarded with a Laptop.

 one student with the highest total from each school at the end of Two
- months will be declared the winner of their respective school and he/she will be awarded with a Gear Bicycle.
- ∞ One student with highest total from each class at the end of Two months will be winner of that class and he/she will be awarded with a school
- ∞ Every week, from each class, the student bringing in the highest amount of waste will be rewarded with an Eco-Police badge.
- makes Every participant will get a certificate of participation and a gift from the Municipal council as follows:
- From standard 1 to 4: Tiffin box
- From standard 5 to 10: Geometry Box

Rewards for School & teachers:

- meach respective school, the class from which the highest amount of total waste is collected at the end of Two months, the class teacher of that class will be awarded with a mobile phone.
- the end of Two months, will be awarded with a trophy and a winning
- To be eligible for winning the best school title, following activities need to be performed by the schools -
- The schools need to conduct a drawing & an essay competition once in the duration of the competition with the theme of Swachh Bharat
- 2. The schools need to take their students on a visit to the garbage treatment plant of Sankhali/Saligao.
- 3. A cleanliness drive needs to be conducted by schools with their students (Class-V to Class-X only) along with their parents at the location given by municipal council on any of the Sundays durings the duration of the competition.

Chance to win a Refrigerator:

Also grab a chance to win a refrigerator by sending the pictures/videos of offenders throwing garbage in the open areas on WhatsApp number 7057344488. All the numbers from which pictures/videos are received will be considered for the lucky draw which will be announced at the end of the competition.

Registration:

- 1. Every student from standard 1" to 10"must mandatorily register for
- 2. Students will get a unique Identity number after the registration, which will be as School acronym/Class/Section/Roll No. for example for Student with roll no. 20 in Section A of Class 5" in Ganesh Vidvalava will get a no. of GV/05/A/020

Rules:

- Participant must be a student of the school in Sankhali
- Every student must collect at least 10 kg of waste at the end of Two months to be eligible for the certificate.
- There will be no participation fee for the competition.
- All participants must register themselves with their class teacher.
- Waste submitted must be clean & dry i.e.
- 5.1. Food packets, pickle packs and take-away food containers have to be thoroughly rinsed and dried before submission
- 5.2. Food covers that are too oily will not be collected.
- 5.3. Papers that are oily and soiled tissue papers will be discarded.
- Student should bring plastic and paper garbage separately.
- Waste must be properly submitted in waste disposal bags which will be provided by the Municipal council.
- No other type of waste beside mentioned in guidelines will be
- Waste will be collected only in the respective school campus.
- 10. The total weight calculated by the school will be cross checked by municipal representative while collecting it on weekly basis.

Initiated By Chairperson Mr. Dharmesh Saglani,

Contact No.: 09822183775



Tirunelveli – Multi-stakeholder approach for achieving 100% source segregation



Tirunelveli Municipal Corporation: Achieving 100% source segregation Population: ~4.74 Lakhs

City started with an **aggressive information, education and communication campaign** in April 2016 about MSW Rules and achieved the ambitious target by 21st December 2016.

- Letter to all households urging to participate in 'Litter Free Tirunelveli movement' and got undertaking from all HHs to participate
- Extensive multi-media campaign through radio, local TV channels, etc.
- Participatory planning meetings with various stakeholders including doctors, SHGs, religious representatives, waste recyclers, media representatives, RWAs, sanitary workers, school administration, etc.
- All key personalities of city beginning with Municipal Commissioner started waste segregation. Spread message through sharing pictures of the same
- Targeted school children to spread message
- TMC decided to make **Wednesday as dry waste collection day** therefore making it necessary to segregate waste announcements of the same were made through several media channels like radio, on autos, through letters, etc.
- Direct supervision of waste collection by Municipal Commissioner and municipal staff





Component 3: Sweeping of residential, public & commercial areas



'X' percent of commercial, public and residential areas have sweeping (one time or twice, including night sweeping)

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
100% public & commercial		100% public, commercial &		100% Public & commercial areas have twice	
areas have daily sweeping		residential areas h	we daily sweeping daily sweeping, including night sw		
				residential areas h	ave daily sweeping

- Ward wise list of commercial areas, public areas and residential areas
- Evidence of sweeping commercial, public and residential areas as per frequency stated in the specific rating condition, in the form of activity log/ roster report/ attendance of sanitation staff
- If work is outsourced to an external agency, the contract document which has a clause for sweeping commercial areas, public areas and residential areas and its stated frequency should be provided
- Survey indicating total garbage heaps/ dumps which have not been attended in the daily collection schedule. Before and after photographs of such points.
- Evidence of mechanism in place for continuous identification and monitoring of visible eyesores/garbage vulnerable spots

Sweeping of residential, public & commercial areas

Suggested Interventions

- एक कदम स्वच्छता की ओर
- Conduct **training of staff** (including staff of outsourced agencies) employed in cleaning residential, public and commercial areas to ensure regular sweeping and cleaning
- Before collecting sweeping waste, it should be **sieved** to ensure no C&D waste is collected (incase C&D waste is identified, it should be reported and separately collected). Incase **C&D** waste is being mixed with sweeping waste, the concerned worker/agency must be penalized
- Dust from sweeping activities should not be mixed with other waste collected from sweeping
- Set up covered secondary storage facility for temporary storage of street sweepings and silt removed from surface drains where direct collection of such waste into transport vehicles is not convenient.

 Waste so collected shall be collected and disposed of at regular intervals as decided by ULB.
- Introduce **ICT-enabled monitoring** of sweeping activities (through CCTV cameras) and GVPs
- Install biometric staff attendance system and link the same with staff payroll
- Insert a clause in contract for performance-based payments, if work is outsourced
- Penalty must be imposed on street vendors/hawkers for littering in public & commercial areas
- ULB should use mechanical sweepers/suckers for sweeping wider roads to the extent possible
- Separate system should be instituted for collection of animal carcass
- ULB should carry out efforts for managing stray animals
- ULB may **implement land use zones** in the city to ensure commercial activities are only taking place in commercial areas, therefore enabling efficient monitoring of cleanliness

Elimination of Garbage Vulnerable Points (GVPs)

- Carry out field level assessment to identify
 GVPs in the city (utilize Swachhata App and other city level grievance redressal systems)
- Involve citizens to conduct cleanliness and beautification drives at these points
- Conduct regular
 monitoring of these
 areas to ensure sustained
 results

As per SWM Rules, 2016, collect waste separately from sweeping of streets, lanes and by-lanes daily, or on alternate days or twice a week depending on the density of population, commercial activity and local situation;

Sweeping of residential, public & commercial areas -

Best Practices

Surat- Anudaan Scheme for sweeping of residential areas



Population: ~50 Lakh

Waste generation: 1799 TPD (280 grams per capita per day)

- City-wide scheme for RWAs and Gated Societies providing them with 25% subsidy on charges for contracting sweeping of residential premises
- SMC provides training to the contracted workers and also holds an annual competition for RWAs/gated societies under this scheme
- SMC conducts an inspection of RWAs/Societies under this scheme every 15 days
- President of RWA/Housing Society is responsible for running of scheme in collaboration with SMC.
- 844 societies are taking part in this scheme

Benefits:

- Reduced requirement of 6,000 sanitation workers and associated expenditure
- Societies have also collaborated with an organisation for dry waste recycling

Sweeping of residential, public & commercial

areas - Best Practices

Visakhapatnam- Technology enabled eradication of GVP



Population: ~17.28 Lakh

Waste generation: 1000 MTPD

- Identification of Garbage Vulnerable points and areas through physical surveys
- Corporation has created a special application, called as the Black spot app for citizens to update any GVP in their vicinity.
- After updating details, the local ward officer is required to survey the spot for at least 2 days and ascertain the reason for incessant dumping of waste
- Adapting a localized approach basis the reason for existence of the spot, and converting it into a green one within 24 hours
- Monitoring of GVPs for 6 months through the Black Spot application to ensure sustainability
- The city has carried out behaviour change campaigns to deter people from littering and disposing of waste indiscriminately

Benefits:

• Successful elimination of 221 Garbage Vulnerable points in the city at reasonable costs







Component 4.1: Litter Bins



Twin-bin/ segregated litter bins are available in 'x' per cent of commercial & public areas at every 50-100 meters, as per requirement, (waste is only deposited in such bins - no littering or spill over of waste)

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
At least 25 %	Atleast 50 %	Atleast 80%		100 %	

- Number of litter bins required for the quantity of waste generated from the location (conduct an inhouse/third party survey to assess number of litter bins required as per floating population, amount of footfall, etc.)
- Copy of installation log of litter bins or Copy of the document/ map showing litter bin numbers & location
- List of identification number of all litter bins
- Image of litter bins clearly displaying the labels/ stickers regarding segregation
- Twin-bins/segregated bins of commercial establishments will be considered if mandated to be used by public.

Litter bins ranging in capacity 60-100 litre twin bins placed along roadside to cater to the needs of the public for throwing garbage along roadside including commercial, public, non-commercial and residential areas.

Litter Bins

Suggested Interventions



- Carry out **field level assessment to assess gap** in terms of coverage of all premises with bins
- Ensure all existing bins in commercial areas are replaced with and all new bins that are compartmentalized with proper labeling (ULBs may procure compartmentalized bins from GeM portal)
- ULBs should keep records of installation log of litter bin, or mapping of bin locations/numbers
- Schedule for emptying of litter bins should be developed and monitored to ensure no spillage/littering around bins
- Periodic cleaning and painting of litter bins should be carried out
- Awareness activities in commercial areas to ensure all shops/commercial establishments have compartmentalized bins and have adopted segregation practice

Component 4.2: Waste Storage



Waste storage bins are placed in strategic locations across the city, as per requirement. 5 and 7 star city should be free of waste storage bins (bin-less).

Remark: Mobile mechanized/underground bins are excluded. City is exempt from this condition if the city is bin-less, i.e. it does not have waste storage bins (no secondary storage). Waste is directly transferred from generators' premises to transportation vehicles to processing center (verification will be done)

- Copy of the list of public, commercial and non-commercial areas that are covered by door to door collection and directly transfer the collected waste to the processing/disposal
- Number of waste storage bins required for the quantity of waste generated from the location (conduct an inhouse/third-party survey to assess number of such waste storage points)
- Copy of installation log or Copy of the document/ map showing waste storage bins and location
- List of identification number of all waste storage container bins
- Image of waste storage bins clearly displaying the labels/ stickers regarding segregation
- Frequency of cleaning of waste storage bins to ensure no littering and/or spill over of waste.

Waste storage bins ranging in capacity 1.1 – 4.5 cubic meters or so placed at strategic locations along roads/in public/commercial/residential areas to receive waste collected from houses/commercial

Waste Storage

Suggested Interventions



- Carry out **field level assessment to assess gap** in terms of coverage of waste storage
- Ensure that waste storage provides facility for disposal of waste in a segregated manner
- ULBs should keep records of installation log of waste storage or mapping of waste storage locations/numbers
- Schedule for emptying of waste storage should be developed and monitored to ensure no spillage/littering around waste storage
- Periodic cleaning and painting of waste storage should be carried out
- Waste storage should be covered and designed to facilitate mechanical lifting to avoid multiple handling and environmental harm

Litter Bins and Waste Storage - Best Practices

Dharamshala – India's first city-wide sensor based underground waste bin network





Population: 56,543

- Issue of garbage spilling, animals digging into piled up garbage, foul smell, leachate, etc.
- 70 hi-tech underground bins installed across each ward of the city and provided with 3 stickered bins for wet, dry & inert material
- Bins take lesser space and are designed with low-level throw-ins to ensure user accessibility for children and persons with disabilities
- Fully automated system to reduce physical contact with waste thereby improving work condition for sanitary workers
- In-built sensor which sends alert to operator when bin is full

Component 4.3: Material Recovery Facility



Availability of material recovery facility (for garbage collection, sorting, storage, recycle, processing and sale) in adequate numbers

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
	n up, space for facility		Fa	cility fully functional	

- Copy of plan and site selection for establishing Material Recovery Facility
- Details of quantity of garbage received, stored, recycled, processed, sold (applicable for star rating 3 & above)
- Copy of mapping/location list along with photographic evidence of MRF sites (applicable for star rating 3 & above)
- Details of manpower engage (applicable for star rating 3 and above)
- Documentation of revenue generated from sale of recyclables, if applicable (applicable for star rating 3 and above)
- MRF may be a mobile one or can be set-up on a cluster basis.

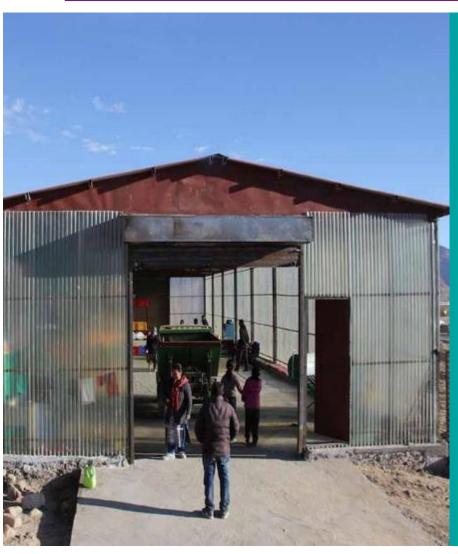
Material Recovery Facility Suggested Interventions



- As per SWM Rules 2016, it is responsibility of ULB to setup MRF or secondary storage facilities with sufficient space for segregation, sorting and recovery of recyclable materials to enable informal or authorized waste pickers and waste collectors to separate recyclables from the waste such as paper, plastic, metal, glass, textile etc.
- Develop plan to setup MRFs (minimum 1) as per waste generation in the city and access to waste generators to facilitate recycling/ processing of dry waste through decentralized system to reduce amount of waste to landfill
- Carry out an assessment of amount of dry waste generated in the city and resultant amount that is currently processed/recycled/diverted
- Setup meeting with community based organisations/NGOs/private players/etc. working in the area of recycling of dry waste to identify collaboration areas (e.g. establish tie-ups to send sorted material to recyclers/ processors/ manufacturers where they are recycled/ used to create new products)
- Set-up MRF with facilities for deposit of large quantities of dry waste and equipment for plastic recycling such as: Jhatak, Shredder, Bailing Machine, Extruder etc.
- MRF may feature a small education room and a dedicated visitor's walkway and viewing platform, where visitors can observe the day-to-day operation of the facility (especially to educate school children regarding waste management)

Material Recovery Facility Best Practice – MRF in Leh





Population: 31,000

Waste generation: 4 Tons

Tourist population: ~2.7 Lakhs p.a.

- Established **dry waste segregation centre** on an area of 230 sq. mt., wherein dry waste collected from 400 households and commercial establishments is further **segregated into 15 categories**
- Categories include cardboard, paper, polythene (plain), printed polythene, metal coated polythene, plastic bottles, mineral water bottles, glass bottles, bone china, tin, thermocol, synthetic, batteries, cotton cloth and plastic.
- Employees as well as citizen volunteers are engaged at the segregation centre and go through a strenuous training program on segregation and sorting of waste
- Collected 1660 kg of dry waste, out of which 170 kg has been sold to scrap dealers, approx. 800 kgs has been sold at subsidized rate to NGO, and remaining ha been utilized in construction activities by the District Administration
- Plans to scale up to other parts of Leh district to ensure enforcement of waste segregation as well as 33 principle.

- Bulk Waste Generators Compliance
- User Charges, Penalties, Spot Fines and Plastic Ban
- Scientific Waste Processing
- ❖ Scientific Landfill
- C&D Waste Management
- Dumpsite Remediation

Component 5: Bulk Waste Generators Compliance



Bulk waste generators in all premises are: (i) doing onsite processing of wet waste generated, including kitchen and garden waste or organic waste from BWGs is collected and processed by private parties authorized by ULB. (ii) Handing over segregated dry wastes to authorised waste pickers or waste collectors. Bulk waste generators with onsite processing facilities may be given a discount on user charges.

1	2 Star	3 Star 4 Sta	5 Star	7 Star
Star				
Yet	All BWGs as defined by	All commercia	1 All BWGs as	All BWGs as defined by SWM
to	SWM Rules 2016,	BWGs 2	s defined by	Rules 2016, including RWAs as well
start	including RWAs identified	defined by SWI	I SWM Rules	as non-domestic establishments
	and issued official notice	Rules 2016	2016, including	generating more than 50 kgs of
	for compliance		RWAs	waste per day

Component 5: Bulk Waste Generators Compliance



- List of all BWGs as defined by SWM Rules 2016, including RWAs identified in the city
- Copy of official notice issues to all BWGs regarding compliance with SWM Rules 2016
- Total quantity of wet/dry waste generated daily by each BWG
- Evidence (in the form of log books, photographs, contract documents, etc.) of non-domestic BWGs complying with conditions stated in the rating framework
- For 7 Star:
- List of non-domestic establishments generating more than 50 kilograms of waste per day
- Copy of official notice issued to all non-domestic establishments generating more than 50 kgs of waste per day.
- Total quantity of wet/dry waste generated daily by all non-domestic establishments generating more than 50 kgs of waste per day
- Evidence of non-domestic establishments generating more than 50 kgs of waste per day complying with conditions stated in the rating framework.

Bulk Waste Generators Compliance Suggested Interventions



- As per **SWM Rules 2016, "bulk waste generator"** means and includes buildings occupied by the Central government departments or undertakings, State government departments or undertakings, local bodies, public sector undertakings or private companies, hospitals, nursing homes, schools, colleges, universities, other educational institutions, hostels, hotels, commercial establishments, markets, places of worship, stadia and sports complexes having an **average waste generation rate exceeding 100 kg per day;**
- Stakeholder consultation with RWAs/ Bulk Generators to create awareness regarding waste segregation
- Launch incentive scheme/ competition to encourage RWAs/Bulk Generators to implement waste segregation
- Felicitate efforts of RWAs/Bulk Generators who have adopted the practice

Bulk Waste Generators Compliance - Best Practices



Bengaluru Municipal Corporation - Managing Bulk Waste

Population: ~84 Lakh

Waste Generation: 4000 MTPD

Percent of waste generated by BWGs: 35-40%

- BBMP issued a **public notice regarding the delivery and disposal of MSW from bulk generators** within BBMP area, with effect from Oct 1st 2012
- As per notification, Bulk Generator is "any hotel/restaurants, choultry, mall, shopping complex, marriage halls, convention hall, temple, residential apartments (10 units and above), institutions, public offices, railway stations, bus stands or any other residential, commercial or a public entity which generates 100 Kg and more wet waste per day and any other such entity that is specifically identified and notified by the Commissioner as bulk generator"
- BBMP also **issued notification (Dt. 15.09.2012) which illustrated collection schedule** for Bulk Generators as per types of waste
- The notification focused on managing the waste at its own site (in-situ) and to make own arrangements for the bulk generators. The notification stressed on adopting technologies like biogas units, composting and vermi composting units.
- BBMP has made it mandatory for the bulk generators to give their waste (wet, dry and C&D Waste) only to the empaneled vendors by BBMP and develop a contract between the bulk generators and the empaneled agency.

Bulk Waste Generators Compliance - Best Practices (



Pimpri Chinchwad Municipal Corporation - Managing Bulk Waste

Population: 18 Lakhs

Waste Generation: 850 MTPD

Scheme: Adarsh Paryavaran Santulit Society (Ideal Environmental friendly Society)

Categories:

1. Society with 12 to 100 Flats/Bungalows/Row-houses

2. More than 100 Flats/Bungalows/Row-houses

Conditions: Shall have paid 100% water charges and 90% of the property tax payers shall have paid the property tax

Evaluation/Selection committee: 2 Municipality officials, 1 Non for profit representative and 1 Journalist

Evaluation/Selection Methodology: 100 marks divided in following components:

- 1. 100% garbage segregation and processing (30 Marks)
- 2. Water conservation and recycling (20 Marks)
- 3. Solar energy and LED usage (15 Marks)
- 4. Tree plantation and Landscaping (20 Marks)
- 5. New environmental initiatives (15 Marks)

Reward & Recognition:

- A. 86 100 Marks: <u>5 Star Rating and 25% Tax Benefit</u>
- B. 76 85 Marks: 4 Star Rating and 15% Tax Benefit
- C. 66 75 Marks: 3 Star Rating and 10% Tax Benefit
- D. 51 65 Marks: 2 Star Rating and 5% Tax Benefit

MEANS OF TERIFICATION

Component 6.1: User charges



	Conditions	1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
CONDITION	 i. Affordable & differential user charges for waste collection and transportation being collected 	Byelaws have been framed including user charges for waste collection and transportation	Collected at least from commercial, institutional and industrial establishments	Collected from households/ princluding residual commercial, in industrial establishment.	oremises lential, astitutional and		
CON	ii. Viable & sustainable user charges for waste collection and transportation being collected					Collected households/ including commercial, is industrial estate	from all premises residential, estitutional and polishments

- Copy of draft byelaws including user charges for waste collection and transportation (star rating 1)
- Total number of households and commercial establishments and the user charges per each household/ establishment for solid waste management (star rating 2-7)
- Evidence of user charges being collected in the form of log book, online record, etc. (star rating 2-7)
- Evidence of user charges covering operating costs of SWM

User Charges - Definitions



- Affordable: Based on the income levels of the citizens of the ULB
- **Differential:** Different user charges for separate citizen categories of waste generators (commercial/non-commercial) for example: slums, single floor houses as per surface area, multi-storey houses/apartments, houses disposing waste in a segregated manner, street vendors, schools/colleges, restaurant/ hotels, etc. based on the waste generation, discount for onsite waste processing etc.
- **Viable & Sustainable:** User charges are sufficient to cover SWM operational costs (collection, transportation, processing & disposal) after deducting recovery revenue generated from waste processing. Capital costs, land costs and public sweeping costs shall be excluded from operational costs calculations.
- If ULB is collecting charges through property tax/any other tax/cess, then those should be specified and shall be used only for SWM operations to be considered as user charges. These charges and corresponding expenditure shall be maintained under separate accounting heads.

User Charges

Suggested Interventions



- States are requested to notify user charges and bye-laws as per Model Rules/ Bye-Laws
- As per SWM Rules 2016, it is the responsibility of the ULB to "prescribe from time to time user fee as deemed appropriate and collect the fee from the waste generators on its own or through authorized agency"
- Households/ Premises should be charged less if they process their own wet waste
- User fee should be kept separate from Property Tax collection to enable fairness, ensure proper service provisioning and encourage private sector participation



Swachh Bharat Mission

Draft Model Municipal Solid Waste (Management & Handling), Cleanliness and Sanitation RULES / BYE-LAWS

> MINISTRY OF URBAN DEVELOPMENT GOVERNMENT OF INDIA



To be notified by the State/UT Governments and the Urban Local Bodies under the sections 11 and 15 of the Solid Waste Management Rules 2015

September 201

Representative User Charges



Andaman & Nicoba	r Islands
Type of establishment	Monthly fee (INR)
Households disposing waste in a segregated manner	50
Households intends collection & segregation of waste done by the sanitary worker	1000
Grocery, department & other shops	150
Hotels & Restaurants	500
Vegetable & meat shops	300
Private/ Government establishment	300
Schools & Colleges	150
Other commercials	50 - 100
Street vendors	20 per day
Charges for BWGs per cubic metre	300 per day

Lucknow Municipal Corporation					
Type of establishment	Monthly fee (INR)				
Residential Units	10 – 50				
Single floor houses constructed on 50 sq. m.	10				
Houses in area between $50 - 100$ sq. m.	30				
Houses (upto 1 st Floor) on area > 101 sq. m.	40				
Apartments and housing complexes/ Houses from 2 nd Floor onwards on area > 101 sq. m.	50				

Representative User Charges



	Chhattisgarh					
Type of establishment	Municipal Council (INR/Month)	Nagar Panchayat (INR/Month)				
Residential Dwelling Unit a) Up to 500 sq. ft. b) Over 500 sq. ft. up to 1000 sq. ft. c) Over 1000 sq. ft.	20 30 50	20 30 50				
Commercial establishments a) Vendors b) Up to 500 sq. ft. c) Area between 101-300 sq. ft. d) Area between 301-500 sq. ft. e) Area between 501-1000 sq. ft. f) Area over 1000 sq. ft. g) Shopping mall/Complex	30 80 150 200 250 500 .75/sq. ft.	20 50 100 150 200 400 .50/sq. ft.				
Restaurants a) Establishment not having Customer Chairs b) Customer chairs below 25 c) Customer chairs between 26-50 d) Customer chairs above 50	200 250 350 500	150 200 300 450				

Representative User Charges



East Delhi Municipal Corporation					
Type of establishment	Monthly fee (INR)				
Residential Dwelling Unit a) Up to 50 sq. m. b) Over 50 sq. m. up to 200 sq. m. c) Over 200 sq. m.	50 100 200				
Street Vendor	100				
Commercial establishments, shops, eating places (Dhaba/sweet shops/coffee house, etc.)	500				
Guest Houses/ Dharamshalas	2,000				
Hostel	2,000				
Restaurants up to sitting of 50 persons	2,000				
Restaurants with sitting of >50 persons	3,000				
Hotel (unstarred)	2,000				
Hotel (up to 3 star)	3,000				
Hotel (over 3 star)	5,000				
Commercial offices, govt. offices, bank, insurance offices, coaching classes, educational institutes	2, 000				
Clubs, Cinema Halls, Pubs, Multiplexes and other such places	4,000				

CONDITION

Component 6.2: Penalties



Deterrent penalty /spot fines for non- segregation, littering and non-compliance of SWM Rules 2016

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
Notified		Implemented in 100 water bodies	0% premises includ	ing littering in storm	water drains and

- Copy of notification of spot fine/penalty for littering, non-segregation, open burning of waste
- List of litter spots this will be cross checked through independent observation
- Copy of fines collected post release of spot fine/ penalty notification for non-segregation, littering (star rating 3-7)
- Copy of *chalaan*/ receipt books for collecting spot fines/ penalties for non-segregation, littering and (star rating 3-7)
- Minimum number of spot fine collections in the city must be no less than the sum of litter spots (star rating 3-7)

Representative Penalties under SWM



Andaman & Nicobar	Islands
Subject of Contravention/Violation	Fine for every single attempt of violation (in INR)
Dumping and littering in any public place & other assets of council such as drain footpath, road, etc. meant for public utility	500
Disposing wastes outside the storage containers	500
Allowing rubbish, filth, etc. to accumulate on premises for more than 24 hours	1000
Unlawful and improper disposal of carcasses rubbish and filth	1000
Failure to keep one's premises clean	500
For delivering waste that is not segregated and stored in separate bins as specified	
IndividualBWG	500 1000

Penalties- Best Practices

Bundu Nagar Panchayat



कार्यालय नगर पंचायत, बुण्डू (राँची)

आम - सूचना

नगर पंचायत बुण्डू की ओर से शहर को स्वच्छ एवं साफ बनाने के संकल्प के साथ सबों को नव वर्ष 2018 की हार्दिक शुभकामनायें ।

लोगों से अपील है कि अपने — अपने घरों एवं दुकानों में उस्टबिन रखें एवं संग्रहित कूड़ा नगर पंचायत बुण्डू के रिक्शा / बाहन में वें । घरों में निर्मित शींबालय का प्रयोग करें । समय से होस्डिंग कर, जल कर, ट्रेंड लाइसेन्स, भवन नक्शा, बोरिंग शुल्क एवं सफाई शुल्क का भुगतान समय पर करें

नगर पंचायत बुण्डू अंतर्गत राभी नागरिकों को सूचित किया जाता है कि स्वच्छ भारत मिशन अंतर्गत खुले में शौध, पेशाब, कमड़ा, आम रास्ता, सरकारी जमीन में अतिक्रमण, करना वंखनीय अपराध है ऐसा करते हुए पकड़े जाने पर निम्नरुपेण दंख का प्रावधान है —

Mast	सर्थ	जुर्माने की चाशि (प्रत्येक बार)
4	आवासीय भवन द्वारा खुले में कचड़ा फंकने पर	50/-
2	दकान द्वारा कथड़ा खुले में कथड़ा फेकने पर	250/-
3	होटल मालिक द्वारा खुले में कचढ़ा फेकने पर	600/-
4	आंधानिक प्रतिष्ठान द्वारा खुले में कथंडा फेकने पर	1500/-
5	हलवाई, चाठ, फाउट पूज, आइसकीव, गन्ने का रस, सब्जी: फूट आदि डेला व्यवसायी पर खुले में कथड़ा फेकरे पर	50/-
6	सार्वजनिक स्थल घर पेशाब करने घर	25/-
7	खुले में शीच करने कर	500 / -
8	र्विजी ट्रेक्टर द्वारा बजरी, कराडा, गोबर, भलबा इत्यायि परिवटन करते हुए शहको पर सामाधी विख्यरने एवं गंदगी	250/-
9	अपने मकान का गंदा प्राची का निकाशी आम राखक पर करने पर	1500/
10	खाली , सरकारी जमीन, आग राश्ला व मकान के सामने गांव मैस बकरी कूला, मेड़, छट, गंधा, घोड़ा, शुअर आदि पालंदू जानवरों से गंदगी फैलाने पर	100/-
3.1.	शादी / विवाह स्थलों के बहार कवड़ा फैलाने पर	1000/-

नोट — प्रतिक वार्ट पर्ववेकावर्त को आदेश दिया जाता है कि जन के अपनेक में आवश्यक कुर्वियाई करें ।

कार्यपार्कक प्रवाधिकारी, नगर प्रमुखत सुरुक्

Component 6.3: Plastic Ban



Ban on the use, sale and storage of non-biodegradable plastic bags less than 50 microns (Carry bags more than 50 microns only shall be permitted), in compliance with Plastic Waste Management Rules 2016

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star	
Implementation of ban Notification and enforcement of ban as well as enforcement of user fee by ULB on use, sale and storage of plastic bags more than 50 microns		ll as enforcement y ULB on use, sale of plastic bags	Complete ban on all plastic bags (with or without handles), less than 200 ml of PET/PETE water bottles/water sachets, Thermocol (Polystyrene) and Plastic based single-use disposable cutlery and articles, Plastic Food packaging material and straws, Plastic and Thermocol decorative material. Packaging as part of product/food manufacturing is excluded.			

- Copy of fines collected post release of spot fine/ penalty notification for plastic ban (star rating 3-7)
- Copy of *chalaan*/ receipt books for collecting spot fines/ penalties for plastic ban (star rating 3-7)
- Copy of notification of ban on the use, sale and storage of plastic bags less than 50 microns in the city (star rating 3 & 4)
- Copy of notification on complete ban on the use, sale and storage of plastic bags, water bottles/water sachets, Thermocol (Polystyrene) and Plastic based single-use disposable cutlery, articles decorative material, Plastic Food packaging material and straws (star rating 5 & 7)

Maharashtra Plastic Ban



India's first buyback depository scheme Penalties:

- First Instance: INR 5000/-
- Second Instance: INR 10000/-
- Third Instance: INR 25000/- + 3 Months Jail

Banned





Less than 200 ml of PET/PETE water bottles/sachets



Plastic Food packaging material and straws



All types of plastic bags, non-woven bags (polypropylene) with or without handles



Compostable Plastic Bags



Thermocol (Polystyrene) and Plastic based singleuse disposable cutlery and articles



Plastic and Thermocol decorative material

Maharashtra Plastic Ban



Allowed





More than 200 ml of PET/PETE bottles



Plastic covering for export purposes produce in Special Economic Zone and Export Industries



Tetra-pack/Card-box based boxes



Plastic packaging of more than 50 micron thickness used for milk packaging with buyback value and manufacturer's name

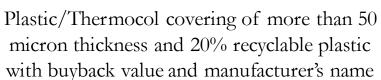


Grocery and food sealed packaging of more than 50 microns and weigh of more than 2 grams with buyback value and manufacturer's name



Compostable Plastic Bags used for agriculture, gardening and solid waste disposal







Maharashtra Plastic Ban



Allowed



Recyclable multi-layer packaging – chips, chocolate, shampoo, toothpaste packets/sachets



Plastic articles for domestic use



Thermocol material for fish and meat storage



Recyclable plastic stationary used in academics and offices



Packaging for Medicines, Medical equipment and produce



Other plastic produce

Panhala Hill Station Municipal Council



Population: 4,000

Flow:

- Single Entry/Exit point
- Cloth bag distribution and collection of deposit amount of Rs. 50
- Collection of waste by tourists
- Return of waste and bag by tourists at exit point, return of security deposit to tourists

Key Features:

- Waste collection by tourists
- Single waste collection point
- Lower waste management costs for ULB
- Sponsorship by local hotels through advertisement on cloth bags





Key messages for citizen awareness





Carry cloth/jute/canvas bags for impulse purchases



Think twice before buying anything that will generate garbage



Carry reusable containers for storing / packing food items/ beverages



Always throw waste in a litter bin or carry a trash bag to save your litter in the case of no bins



Don't accept single-use plastic/thermocol cutlery while ordering food



Avoid using plastic straws

CONDITION

Component 7.1: Scientific Waste Processing



Atleast 'X' per cent of waste generated is processed

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
Atleast 25 per cent	Atleast 50 per cent	Atleast 75 per cent	100 per cent		

- Total wet and dry waste generated daily using per capita criteria
- Processing of all waste streams
- SWM DPR or action plan indicating quantity of segregated collection of waste
- Survey report indicating total ragpickers included in MSW and dry waste collection centres in city
- Total number of functional decentralised waste processing units in the city waste processing capacity and waste processed per day (including RWAs and BWGs) over the past year
- Evidence of functional centralised waste processing facility in the city waste processing capacity and waste processed per day, over the past year
- Evidence of contract with external vendors that process dry waste

Scientific Waste Processing Relevant Policies



1. Compost Policy: Market Development Assistance Policy under SBM(U)

- Market Development Assistance (MDA) of Rs. 1500 per metric tonne of city compost to be paid to fertilizer marketing companies.
- Fertilizer Marketing Companies obligated to purchase all city compost manufactured by respective cities to which they have been tagged.
- Amendment on 28th September 2016: ULBs / Compost Manufacturers can also market compost directly to farmers (in bulk) and claim MDA of Rs. 1500 per tonne. DAC&FW Notification in this regard released for 43 plants and Notification for 47 plants is underway.

2. Waste to Energy

• Tariff Policy under Central Electricity Act, 2003 as amended: The policy as notified on 28.01.2016 mentions at 6.4 (1) (ii) that Distribution Licensee (s) shall compulsory procure 100% power produced from all waste-to-energy plant in the State, in the ratio of their procurement of power from all sources including their own, at the tariff determined by the appropriate Commission under Section-62 of the Act (Ministry of Power Resolution, New Delhi, 28 January, 2016 regarding TARIFF POLICY).

Scientific Waste Processing Suggested Interventions



- Carry out an assessment of amount of wet waste generated in the city and resultant amount that is currently processed
- Develop plan to ensure 100% processing of wet waste through decentralized (on-site composting) or centralized processing facility. GIZ tool can be used to plan waste processing.
- Carry out an assessment of amount of dry waste generated in the city and resultant amount that is currently processed/ recycled/ diverted
- Develop plan to ensure 100% recycling/ processing of dry waste through decentralized (dry waste collection and recycling centres/ initiatives) or centralized processing facility (WTE, RDF)
- Use of RDF as alternative fuel in nearby cement plants
- If SWM facility is contracted to third party, include clause on performance based payment/damages

12.2 Damages

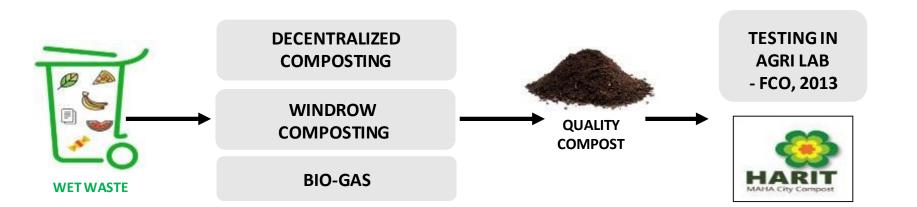
A key objective of the facility is to reduce the environmental impact of Municipal Solid Waste. The Performance Standards for which the Lead ULB has zero tolerance and violation of which could lead to termination are as described in the table below

Pe	rformance Standards	Acceptable Level	Cure Period	Penalty	Tracking mechanism	Event of Default			
Processing Plant									
1)	Suspension of MSW processing	Incidence in ≤ 16 shifts per year and ≤6 continuous shifts		Operation Performance Security at the rate of 0.2% each day's default	Daily Report	Event of Default in case >20 shifts per year or >8 continuous shifts			
2)	Total quantity of unprocessed MSW stored at the Processing Plant	≤ 20 days of MSW quantity (calculated from the 15 days trailing average)	7 days	Operation Performance Security at the rate of 0.2% each day's default	Daily Report	Event of Default in case not cured in the cure period			
3)	Noncompliance to compost quality standards, if applicable	No variation	180 days	Operation Performance Security at the rate of 0.1% each day's default	Checks conducted by Independent Engineer and other agencies	Event of Default in case not cured in the cure period			
	Scientific Landfill								
4)	Instances when MSW is found to be landfilled without processing	Nil	N/A	Operation Performance Security at the rate of 5% each day's default		Event of Default for third instance in the concession period			



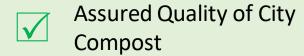
HARIT: New Civic Way of Life. Initiative by Government of Maharashtra

- Market development assistance for scaling up production and consumption of the compost
- Scheme initiated in May 2017-Out of 256 ULBs in Maharashtra 44 are HARIT certified till date
- Objectives:
 - To provide support for marketing of compost produced by ULBs.
 - To ensure consistent quality of compost as per FCO, 2013 and SWM Rules 2016.



Benefits of the scheme





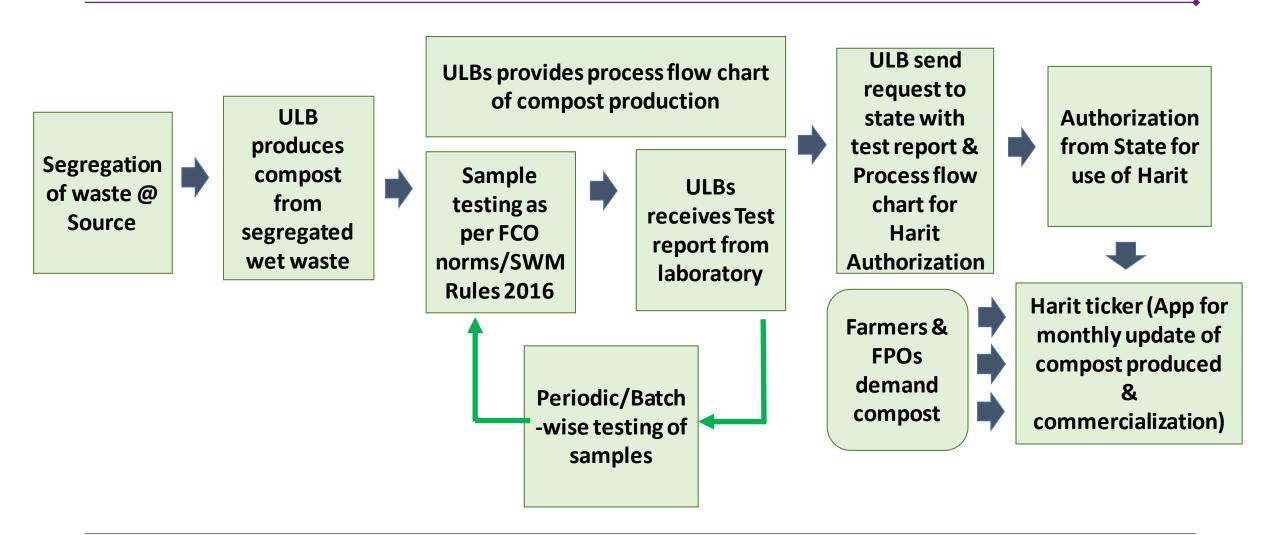


Assured Market for City Compost

95-100% segregation in all HARIT certified cities



HARIT: New Civic Way of Life. Initiative by Government of Maharashtra



Alwarkurichi Town Panchayat



Population: 11,543 Households: 4226

Commercial units: 147

Education Institutions: 11

Tailoring Shops: 5

Mutton and Chicken Stalls: 4 Community/Marriage Halls: 2

17 push-carts and 2 mini autos 100% Door to Door Collection

Waste Generation: 2.57 MTPD

Biodegradable Waste: 1.54 MTPD

Compost generation per month: 9.5 MT Compost sale price per month: Rs. 5/Kg





Vengurla Municipal Council



Population: 12,392

Floating Population: 8,000

Households: 5333

100% Door to Door Collection

Four-way Segregation:

- Wet Waste
- Dry Waste (paper, cardboard, tetra packs, rubber, cloth, wood etc.)
- Plastic Waste (packaging material, PET bottles, milk packets etc.)
- Metal & Glass (Glass bottles, aluminum, iron and tin etc.)

Waste Generation: 7 MTPD

- Biodegradable Waste: Vermi-composting and Bio-methanation
- **Dry Waste:** Briquettes
- Plastic Waste: Crushed to be used for road construction
- Glass and Metal: Sale to Recyclers

Zero Landfill













Component 7.2: Scientific Landfill



1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
Land for dumping identified either in own city or other city; may not be scientific landfill		Remaining unprocessed waste is transported to Scientific Landfill either within the city or to another city	l -	rted to Scientific to another city	

Star Rating 1 & 2:

- Evidence of identification of land for dumping, in city or other city Star Rating 3 & 4:
- Details of DPR of Scientific Landfill
- Details of Environment impact assessment conducted for the scientific landfill
- Log-book of process rejects going to land-fill

Incase city is zero landfill

• Evidence showcasing 100% processing of all municipal solid waste

Component 7.3: C&D Waste Management



Condition	1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
A. Facilitation of collection of C&D waste from premises of non-bulk generators through mobile collection unit or designated collection points within reasonable distance for generator to bring and deposit			75% of 100% of limits collimits covered		of municipal overed	
 B. Facilitation of storage, segregation and/or processing / recycling of C&D waste - 'X' percent of C&D waste generated is stored, segregated and/or processed/recycled within municipal limits in a designated area and/or in C&D recycling plant. Segregation should be in the following five categories: Concrete, soil, steel, wood & plastics, bricks & mortar Bulk Generators (generate >=20 Tons/day or 300 tons/month per project) Non-bulk Generators 	charges	cation of s for P&D of	100% 25%		100% 50%	100% 75%
C1. Provisions made for use of raw C&D waste in 'X' percent of municipal/government/municipality approved construction activities in non-structural applications: lower layers of road pavements, inner colony roads, filling of plinth and basement etc.	C&D Wa	Waste	20%		30%	40%
C2. Provisions made for use of material made out of C&D Waste in 'X' percent of municipal and/or government construction activity (if available) in kerb stones, structural concrete as manufactured aggregate, paving blocks, bricks etc.			5%		10%	>10%

Component 7.3: C&D Waste Management



- Quantity of C&D waste generated in the city per month
- Copy of C&D waste management plan
- Evidence of separate collection vehicles for C&D Waste
- Copy of notification of charges for collection, transportation, processing & disposal of C&D Waste
- Evidence of quantity of C&D waste stored, segregated and/or processed/recycled within municipal limit AND/OR copy of contract of ULB's C&D recycling plant with evidence of quantity of C&D waste processed/recycled at designated recycling plant (ULB/Bulk waste generator)
- Evidence of quantity of C&D waste being collected from premises of non-bulk generators OR list/mapping along with photographic evidence of collection points within reasonable distance (for star rating 3-7)
- Evidence of use of raw C&D waste in municipal/government/municipality approved construction activities, as per rating condition (for star rating 3-7).
- Dumping of raw C&D waste in uninhabited or sparsely populated areas without any construction activity will not be considered as use of C&D waste.
- Evidence of use of material made out of C&D waste in municipal and/or government construction activity (if available), as per rating condition (for star rating 3-7)

C&D Waste Management

Key Policy Interventions



- 35% central assistance under SBM(U)
- In March 2015, BIS has issued proposed revisions in IS: 383, which will allow use of coarse and fine aggregate derived from processing of recycled concrete as part replacement of natural sand (18). The amounts permitted, for both coarse and fine aggregate, are;
 - 100 percent in lean concrete (up to M15 grade),
 - 25 percent in plain concrete, and
 - 20 percent in RCC (up to M20 grade).
- CPWD issued guidelines on Reuse & Recycling of Construction & Demolition Waste through a book titled CPWD Guidelines for Sustainable Habitat.
 - http://cpwd.gov.in/Publication/Guideleines_Sustainable_Habitat.pdf
- CPCB has launched a "Guidelines on Environmental Management of C&D Wastes" http://cpcb.nic.in/upload/Latest/Latest_171_Final_C&D_March_2017.pdf

C&D Waste Management - Best Practices

East Delhi - C&D Waste Disposal through PPP



East Delhi Municipal Corporation – C&D Waste Disposal through PPP

- Facility setup in 2009 by EDMC in collaboration with private party
- Plant in first phase had a capacity of 500 MTD which was later expanded to cover C&D waste from across Delhi
- Plant produces fine sand, dust and other building construction materials like pavement blocks and curbs stones
- Processing fee for C&D waste is ~INR 205 per ton
- All vehicles used for the facility have been equipped with GPs
- Capex incurred from the project is proposed to be covered over a period of 10 years by deriving value from the processed C&D waste











CONDITION

Component 8: Dumpsite Remediation



Remediation of all identified dumpsites in the city

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
Yet to start	Plan has been approved including financial closure	Plan has been approved and work commenced	50% work as per remediation project plan has	remediation	per remediation
			been completed	* ′ *	- / -

- List of dumps identified in the city
- Copy of approved plan for remediation of all identified dumpsites in the city has been approved
- Evidence of work commenced (copy of contract, detailed project report, etc.) (applicable to star rating 3)
- Evidence of 'X' per cent work completion (copy of completion/ closure report, etc.) (applicable to star rating 4-7)
- In case of **no existing dumpsites within city limits** and **not dumping waste in shared dumpsites/dumpsites outside city limits**, this criteria will not be applicable and considered as 100% work has been completed.

Dumpsite Remediation

Suggested Interventions



• Carry out an assessment of amount of waste disposed in an unplanned manner and develop a plan for remediation and scientific capping of existing dumpsite

Dumpsite Remediation - Best Practices

Saswad Municipal Council



Volume of dumped waste: 28000 cubic meter

Weight (Approximate): 19600 MT

Land occupied: 2.71 Acre

Sanctioned cost: 66.10 Lakh(236 Rs./ cubic meter)

Actual tender Cost: 54.99 Lakh (196.42 Rs./ cubic meter)

Per Day processing: 300 TPD

30% land reclaimed

Process:

- Digging of Dumped Waste
- Feeding Material & Sorting
- Metal Partial Sorting & Screening
- Ballistic Separation
- Final Treatment of Separated Partials
 - Recycling Material
 - RDF







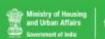






Reference Advisories





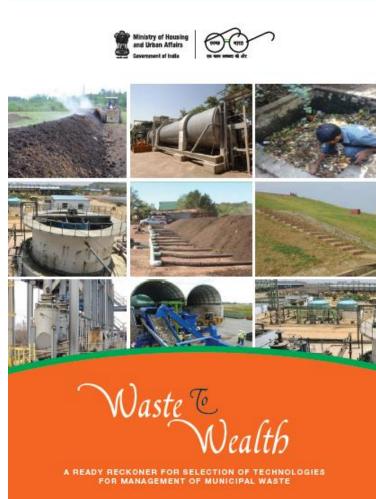


Swachh Bharat Mission - Urban

Advisory on On-Site and Decentralized Composting of Municipal Organic Waste



Central Public Health and Environmental Engineering Organisation (CPHEEO) MINISTRY OF HOUSING AND URBAN AFFAIRS June 2018









BULK SOLID WASTE GENERATORS

A Step by Step Guidance for Urban Local Bodies to implement the Solid Waste Management Rules, 2016

November, 2017

- Citizen Grievance Redressal
- Drains & Water Bodies
- **❖** Waste Reduction
- **❖** Visible Beautification

Component 9: Citizen Grievance Redressal



Swachhata App/ equivalent app-based grievance redressal platform (phone-call based platform will not be considered) are in place and atleast 'X' per cent of households should have downloaded the App/ equivalent grievance redressal platform AND 'Y' percentage of complaints related to Solid Waste Management received on Swachhata App/ equivalent grievance redressal platform are resolved within SLA

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
Swachhata App/ equivalent	5% downloads	10% downloads	25% downloads	25% downloads	50% downloads
grievance redressal platform					
is in place; 5% downloads					
10 percent	50 per cent	75 per cent	75 per cent	90 per cent	Above 95
					percent

- Evidence of number of downloads of App/ equivalent grievance redressal platform equivalent to atleast 'X' per cent of households.
- Log of complaints received on Swachhata App/ equivalent grievance redressal platform in the past Evidence of redressal of complaints related to SWM within SLA
- Independent verification through visit to sample number of households in each ward of the city

Component 10: Drains and Water Bodies



No visible solid waste in storm water drains and water bodies in 100 percent of premises under ULB jurisdiction

1 Star	2 Star	3 Star	4 Star	5 Star	7 Star
100 per cent of water bodies	100 per cent of water bodies	100 per	cent of w	ater bodies and	storm water
(including but not limited to	(including but not limited to	drains under ULB jurisdiction			
ponds, lakes, tanks, rivers,	ponds, lakes, tanks, rivers, etc.)				
etc.) under ULB jurisdiction	under ULB jurisdiction				

- List/Map of all water bodies and storm water drains
- Parameter will be verified only through independent observation and citizen validation
- Placement of screens/filters where drains are connecting drains/water-bodies and/or at strategic locations to keep out solid waste from entering water-bodies/drains.
- Cleaning schedule of screens/filters

CONDITION

Component 11: Waste Reduction (Only for 7 Star)



Application of 3R Principles in MSWM: Quantifiable reduction in waste generated by the city on a per capita basis, in the past year (previous year from the date of self-declaration)

- Log of waste generated on per capita basis for the previous year, prior to date of selfdeclaration
- Evidence of application of 3R principles in SWM interventions across the city
- At least 5% of waste generators (excluding BWGs, RWAs) shall have on-site wet waste processing facility (composting/bio-methanation).

Waste Reduction

Suggested Interventions



1. Reduce

- Reduce/Ban use of plastics and disposables in the city
- Motivate shopkeepers/vendors to tie-up with eco-friendly bag vendors and introduce an incentive for adoption of this approach
- Introduce Extended Producer Responsibility in accordance with SWM Rules 2016

2. Reuse

- Achieve 100% source segregation
- Establish Material Recovery Facilities across the city
- Establish a deposit refund system

3. Recycle

- Carry out awareness campaigns regarding 3R
- Establish recycle marts in collaboration with organisations/individuals working in the recycling space

Component 12: City Beautification (Only for 7 Star)



- Well-maintained, pot-holes free and encroachment-free roads and pavements with proper signage and no debris
- Proper Landscaping of Green areas
- Well-lit public places
- Visible beautification of city, including repairs and maintenance of public places under ULB jurisdiction to achieve a clean and aesthetically pleasing city (At least 1 project in each ward). Indicative list:
 - High quality and adequate street furniture
 - Paintings in public areas
 - Landscaping/creation of parks beneath flyovers
 - Creation of green spaces around the city
 - Incorporation of local art, culture and heritage elements



- Parameter will be verified only through independent observation and citizen validation
- No flex banners/unauthorized posters in public areas





