



Ministry of Housing and Urban Affairs  
Government of India



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# Swachhata Sandesh

A monthly newsletter of the Ministry of Housing and Urban Affairs (MoHUA), Government of India

**Transforming Noida:  
From Wasteland to Wetland**

**Meet Our Swachhata Heroes!**







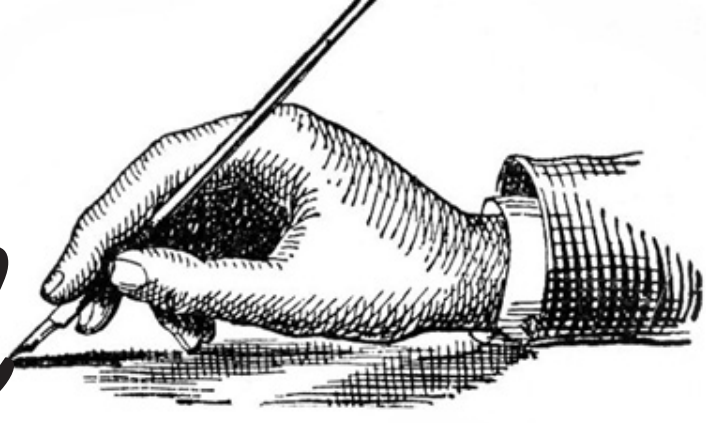
# स्वच्छ सर्वेक्षण 2020

4<sup>th</sup> January to 31<sup>st</sup> January 2020  
[swachhsurvekshan2020.org](http://swachhsurvekshan2020.org)

## Make Your City No. 1



# Editorial



Swachh Bharat Mission (Urban) (SBM-U), launched by the Indian government in October 2014, has completed five years of its journey. Today, urban India has become Open Defecation Free except 52 Urban Local Bodies in West Bengal. There is no denying the fact that Swachhata cannot be achieved through the efforts of leaders and governments alone, but through the combined efforts of the people. The participation of every segment of society is necessary to make the cleanliness Mission a big success. Today, the Mission has also become a tool for social empowerment covering the entire community for saturated outcomes with the aim of creating a 'Clean India'. Further, it is not just about cleaning the surroundings but also seeking people's participation in creating a garbage free environment. In order to encourage citizen participation and inculcate in cities a healthy sense of competition, the Ministry of Housing and Urban Affairs has conceptualized Swachh Survekshan (SS), the annual cleanliness survey for urban India.

The overall theme of this newsletter is focused on Swachh Survekshan 2020 which is the fifth edition of the survey. Swachh Survekshan League 2020 was introduced with the objective of sustaining the onground performance of cities along with continuous monitoring of service level performance when it comes to cleanliness. The performance of cities in SS League 2020 is crucial to their ranking in SS 2020 due to the 25 percent weightage of the quarterly assessments to be included in the annual survey scheduled to commence from 4th January till 31st January 2020.

With a vision to develop itself into a Smart City, the NOIDA authority started exploring sustainable, eco-friendly and easy replicable solutions for managing its dumpsites. The remediation process was the first of its kind in North India. The approved remediation procedure was carried out in three key phases i.e. Pre-stabilization, processing and segregation and disposal of waste. The remediation process was not without its set of challenges. A prolonged monsoon leads to delay in the waste stabilization process. To overcome this delay, the operation hours were increased to 22 hours during dry times. Moreover, the Greater Hyderabad Municipal Corporation (GHMC) has started the 'Humara Charminar – Swachh Charminar' initiative with the goal of making this monument and its surroundings cleaner and tidier, while ensuring the waste generated is treated or handed over properly.

This newsletter brings news of such stories from different cities in India and showcases the progress of SBM, highlighting the champions and ambassadors of change. It also serves as a vehicle for promoting ground level practices and knowledge from those interested in making India clean and litter free.

The Newsletter is available on the Mission website (<http://swachhbharaturban.gov.in>) and can be downloaded for further dissemination. The newsletter is an outcome of collective efforts made by states and cities. We thank them for their contribution and welcome suggestions for the forthcoming issues.

**Editorial Team, Swachh Bharat Mission (Urban)**



# TRANSFORMING NOIDA FROM WASTELAND TO WETLAND

## A Case Study on Dumpsite Remediation in NOIDA Sector – 54

Solid Waste Management (SWM) has always been a challenge in India. However, five years into the Swachh Bharat Mission- Urban (SBM-U), our states have been making significant progress in the area with waste processing having more than tripled during this time (from 18% in 2014 to 60% now). Nonetheless, one aspect of SWM that still deserves considerable attention is the issue of legacy waste. Uncontrolled and continuous dumping of municipal solid waste has led to mountains of legacy waste in the country. These open dumps have grown higher and larger, becoming a source of air and groundwater pollution and posing a huge threat to the environment. According to the **Guidelines for Disposal of Legacy Waste by the Central Pollution Control Board**, it is estimated that more than 10,000 hectares of urban land is locked in these dumpsites in India. Moreover,



the methane produced at these solid waste disposal sites contributes approximately 3-4% to the annual global anthropogenic greenhouse gas emissions (IPCC, 2011). Clearing these mounds of year old waste is the easiest and the fastest way to reduce our national emissions and protect our

environment.

A similar problem was faced by the **New Okhla Industrial Development Authority (NOIDA)**. With a vision to develop itself into a Smart City, the Noida authorities started exploring sustainable, eco-friendly and easy replicable solutions for managing its dumpsites.





## Step 01

### Pre-Stabilization

In the pre-stabilization phase, the entire dump was converted into equalized windrows and sprayed with bio-culture inoculum and deodorizer. This methodology required the windrowing to be turned several times with constant application of bio-culture and deodorizer until there was a visual change in the dump.

## Step 02

### Processing and Segregation

In the second stage, a unit mobile equipment consisting of screeners, trommels and air density separators were placed inside the dump where the pre-stabilized waste were fed and segregated efficiently into combustible and non-combustible matter. The aggregates that were separated were in the purest form possible. The

three different type of by-products obtained were RDF (Refuse Derived Fuel), 'Good Earth' in the form of black soil with properties of compost, and construction and demolition debris.

## Step 03

### Disposal of Waste

The combustible fraction generated from the process were sent to nearby cement companies. All cement plants close to Delhi NCR region were contacted by the authority and implementing agency for the supplying of RDF. Most of the RDF material was transported to ACC plants located in Kymore.

- 'Bio-earth' is the fine fraction (-6mm) received from the dumpsite remediation. It is completely decomposed organic matter and possesses strong water holding capacity. It is helpful for the growth

of non-edible crops in the field. Hence, this fraction of the noncombustible portion was provided to the local farmers for their farms.

- The machines used in the process segregated the debris in the purest form and most of these materials are durable and therefore, have a high potential for reuse. The material was therefore used for filling the low-lying areas.
- The remediation process, however, was not without its set of challenges. A prolonged monsoon lead to delay in the waste stabilization process. To overcome this delay, the operation hours were increased to 22 hours during dry times. Maintaining the moisture content of the area also proved to be a challenge especially the summers which was tackled by adding water sprinklers to the surfactants. Deodorizers were also used regularly to keep the area clean, odour and fly free.

The remediation process was the first of its kind in North India. The procurement process for this procedure itself took about a year. This involved a technology presentation from various technology providers in the area of dumpsite remediation and evaluation done by a technical committee. The approved remediation procedure was carried out in 3 key phases:

The efforts of the authorities led to extremely positive results. In a span of 6 months, about **100,000 metric tonnes** of waste was processed from Sector-54 Noida. The site is now

being transformed into a wet land which would act as a reservoir for the collection of rainwater. The authority took a final step in the restoration exercise to turn the wetland into a basin to help recharge the city's water table.

The efforts of the concerned authorities have been recognized on a national level. On 10th January 2020, the Ministry of Housing and Urban affairs, Government of India will be awarding the Noida authorities with the **Best Urban Development Project – Greenfield Development category for the Dumpsite Remediation that took place in Sector – 54**. This



awards lays testament to the work that the authorities have done in removing legacy waste from the area.

On the sustainability front, the project addressed several sustainability factors that would provide benefits to the citizens. This included improvement in health and hygiene, and environmental conditions, acceptance of the technology to be replicated in other municipalities, and the lessening of the financial burden on the municipality for remediation of existing dumpsite. The efforts by Noida in remediating its dumpsite and providing a Swachh environment to its citizens deserves kudos!

Click here to watch a video of the bio-remediation process in Noida

*With inputs from the New Okhla Industrial Development Authority*



# Swachh Snapshots

## MOHUA ANNOUNCES RESULTS OF SWACHH SURVEKSHAN LEAGUE 2020 AND ROLLS OUT SWACHH SURVEKSHAN 2020

The last day of 2019 saw Shri Hardeep Singh Puri, Honourable Minister of State (I/C) for Housing and Urban Affairs, announcing the results

of Swachh Survekshan League 2020 (Quarter 1 and Quarter 2) at a press conference in Nirman Bhavan. Swachh Survekshan 2020, the fifth edition of

the annual urban cleanliness survey, was also rolled out on the occasion.

The performance of cities in SS League 2020 is crucial to their ranking in Swachh Survekshan 2020 due to the 25% weightage of the quarterly assessments to be included in the annual survey scheduled to continue till 31 January 2020.

While Shri Puri elaborated on the achievements of the Mission in the last five years and answered questions from the press, Shri Durga Shanker Mishra, Secretary, MOHUA, made a presentation on Swachh Survekshan's journey and the key indicators for SS 2020.

To view the complete results, visit [www.swachhsurvekshan2020.org](http://www.swachhsurvekshan2020.org)



## JOINT SECRETARY & NATIONAL MISSION DIRECTOR, SBM-U VISITS AGRA

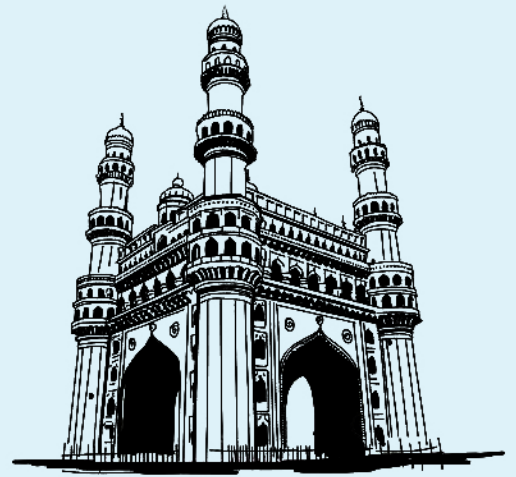
Shri V.K.Jindal, Joint Secretary and National Mission Director SBM-Urbane (SBM-U) visited Agra in the first week of December to review the Mission's progress in selected Urban Local Bodies (ULBs) of Uttar Pradesh.

The meeting was attended by representatives from Agra, Mathura, Firozabad, Shikohabad, and Aligarh. Shri Jindal made many actionable suggestions to the representatives for bridging the current gaps in achieving the Mission outcomes which concluded in a plan to work on them more rigorously in the coming days.





# HAMARA CHARMINAR SWACHH CHARMINAR



As part of initiatives taken under Swachh Bharat Mission (Urban), the Greater Hyderabad Municipality Corporation (GHMC) has started the 'Humara Charminar - Swachh Charminar' initiative with the goal of making this beautiful monument and its surroundings cleaner and tidier, while ensuring the waste generated is treated or handed over properly.

As part of the Charminar Pedestrian Project (CPP) under the cleaning drive, the city is witnessing, for the first time, stone tiles being scrubbed in the walking area of Charminar. The day starts at 4:00 AM with a team of over 100 men and women making early rounds, meeting the teams and motivating them about the work with a strategic implementation plan. For the drive which has a 360-degree approach cleaning, the cleaning process starts from sweeping the area, cleaning it with water and then a deep cleansing of the foot tiles with scrub.

To prevent the tiles from losing their sheen, the team is bringing awareness among vendors and staff. This team is also planning to conduct a 'Swachh Walk' around Charminar with 200

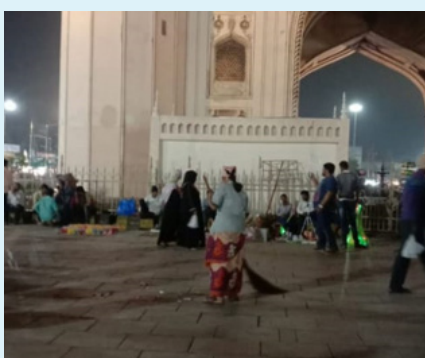


volunteers. Apart from this, a special cleaning and awareness programme is being conducted three times every day



for the locals in the area. This idea is to make locals and vendors in the area dispose garbage only in specified bins. Since the inception of this initiative, there has been a visible difference in the appearance and the level of cleanliness both inside and around the premises of Charminar.

We truly appreciate the efforts made by GHMC for making the Charminar Swachh and taking the progress of SBM-U forward.



# MEET OUR SWACHHATA HEROES!

It is the time of the year when every city is fighting it out to bring home the Swachh Survekshan crown! As the 'josh' of Survekshan runs high through the country, we present to you some of our Swachhata Heroes who have taken it upon themselves to make their city **Number 1**.

## AMBIKAPUR RESIDENT WHO QUIT HER JOB AS A TEACHER TO PICK UP THE SWACHHATA MANTLE



Shashi from Ambikapur in Chhattisgarh had a settled job as a teacher. However, the call of Swachhata proved to be too strong and she quit her job to not only

don the mantle of Swachhata Didi but also motivated other women from the city to join the cause thereby securing a source of income for themselves. Shashi faced several challenges on her way since her own family was against her decision of her working with 'waste'. Today, due to the vision of Swachhata Heroes like Shashi, Ambikapur has become one of the cleanest cities in the country with 'waste' truly having turned into wealth – each of the Swachhata Didis earn an average of INR. 10,000 -12,000 per month. Shashi, who is today the supervisor of a Material Recovery Facility Unit, proudly says, "No job is too small, the only thing you need is right intent and strong will power".



## MAHADEV JADHAVE: SAFAI KARMACHARI FROM PUNE WHO SINGS HIS WAY TO PEOPLE'S HEARTS

Mahadev is a waste collector working with Pune Municipal Corporation for the past 25 years. However, Mahadev has a signature style- he is today almost an icon in Pune thanks



to the songs that he sings while going on his daily rounds of waste collection and encouraging people to practise cleanliness, segregate their waste and reduce the use of plastic. One of his most popular songs happens to be "Kachra sookha aur geela, sabne mila kar dala, kachare ne leli sabki jaan re, gaur se suniye meherban" inspired from the famous Bollywood song, "Kajra Mohabbatwala". Jadhav Ji's dedicated efforts have earned him the place of Pune's Brand Ambassador for Swachh Survekshan 2020. Is it not a proud moment for all of us when a man who has dedicated his entire life to keeping our city Swachh gets bestowed with a title like this?

## A MEDICAL PRACTITIONER FROM BHAVNAGAR PROVIDES REMEDIES FOR A CLEAN INDIA

A general physician from Bhavnagar, Dr. Tejas Doshi has several Swachhata endeavours to his credit, one of which includes his

initiative to reuse balls pens made of plastic. In

this day and age of digitization, most of us use these plastic pens only once only to throw them away causing great damage to our environment. Through Dr. Doshi's efforts, over 3,50,000 used balls pens have been collected and with the help of Shishuvihar Sanstha, these so-called 'waste' items have been given a new life by filling them with refills and then distributed free of cost to needy students! Let's all appreciate the spirit of Dr. Doshi who is not only helping us control the menace of plastic pollution but also lending his hand in spreading education through his own way.







# SWACHH NEWS

## 21 Minutes to Cleanliness

A half marathon was organised at the Motilal Nehru Stadium, in Bhopal. The theme for this 21km long event was 'Green and Clean'. The Municipal authorities have claimed that they completed the cleaning of the roads, both before and after the race, in merely 21 minutes. Various measures were adopted in order to achieve this feat.

This comes in the backdrop of last month's Ijtema, where the Bhopal Municipal Corporation had tried to break a World Record for being the largest no-waste event in the world.

**नगर निगम का ग्रीन एण्ड क्लीन अभियान  
फिर बड़े आयोजन में बनाया  
रेकॉर्ड, 21 मिनट में की सफाई**

पत्रिका न्यूज नेटवर्क  
patrika.com

भोपाल. मोतीलाल नेहरू स्टेडियम पर रविवार को हुई 21 किलोमीटर मैराथन से पहले और बाद में नगर निगम प्रशासन ने 21 मिनट में सफाई करने का दावा किया है। सुबह 6 बजे शुरू हुई यह मैराथन नगर निगम की ओर से 'ग्रीन एण्ड क्लीन' थीम पर आयोजित की गई। अपर आयुक्त राजेश राठौर ने बताया कि आयोजन से एक दिन पहले लोकेशन तय कर 21 किलोमीटर के ट्रैक को 18 बीट में बांट दिया गया था। पांच कचरा संग्रह वाहन लगाए। लगभग 100 सफाई कर्मचारी तैनात किए गए। चार रोड रनर, दू, वीलर, सफाई सामग्री के साथ कर्मचारी जुटे हुए थे। नगर निगम की तरफ से 65 वॉलंटियर, स्टार्ट पॉइंट सहित ग्राउंड, पार्किंग और ट्रैक के लिए अलग-अलग डेडीकेटेड टीम



तैनात की गई थी। मैराथन के रूट पर डस्टबिन रखे गए, ताकि लोग यहाँ-वहाँ कचरा ना फेंके। मालूम हो कि इससे पहले नगर निगम प्रशासन इससे पहले ईटखेड़ी में हुए इस्तीमा के समापन पर भी सफाई को लेकर कीर्तमान रचा था।

## Panchkula MC Exchanges Milk Packets for Plastic

In order to make Panchkula plastic-free, the municipal corporation has come up with 'Waste Exchange Program'. Under this, they have set up Vita booths across the city that offers milk packets to people in exchange of plastic. Those who give 1kg of plastic or 10 plastic bottles will receive one packet of milk in exchange.

Read More: [shorturl.at/asG08](https://shorturl.at/asG08)

## Avadi Municipal Corporation organises Expo on Solid Waste Management

In an attempt to inform citizens about the eco-friendly ways of waste recycling, the Avadi Municipal Corporation in Tamil Nadu organised a 3 day expo. The expo has demonstrations about various eco-friendly concepts to manage waste at different levels from home to industries and was visited by nearly 5000 people.

The idea behind the event was to create awareness about solid waste management practices at the micro level. If residents could segregate wet and dry waste at household level and practice composting, the burden of garbage disposal on the civic body would be significantly reduced.

Read More: [shorturl.at/hvyCN](https://shorturl.at/hvyCN)

## Tacloban as One of the Finest Waste-free Cities in the World

The city of Tacloban in the Philippines has a population of about 242,000 (2015). Their daily waste generation is around 175 tonnes. Despite this number, the city has a decentralised collection system for household waste in 64 barangays or communities. The diversion rate for these barangays has constantly increased over the past two years, from 10% to 55% in the first year.

This has been made possible as a result of the joint venture between Mother Earth Foundation (MEF) and the city authorities. A multi-pronged approach was adopted, which included both the IEC (information, education, communication) campaigns well as enforcement mechanisms for the city.

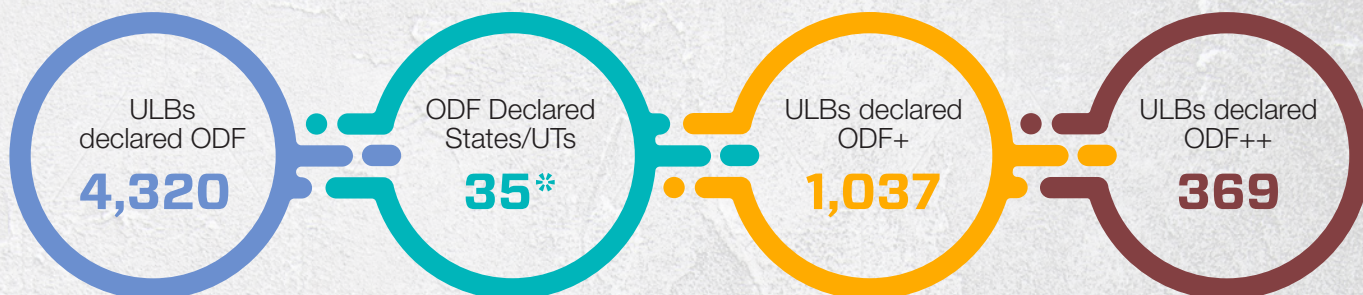
Read more to know more about the waste management system in Tacloban

[shorturl.at/dvFS8](https://shorturl.at/dvFS8)



# SBM-U Mission Progress

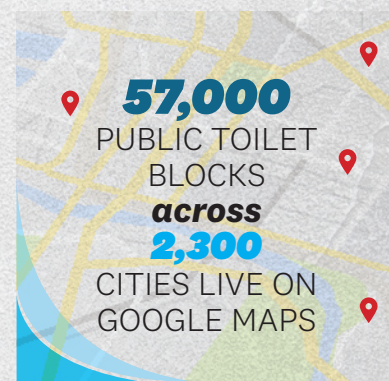
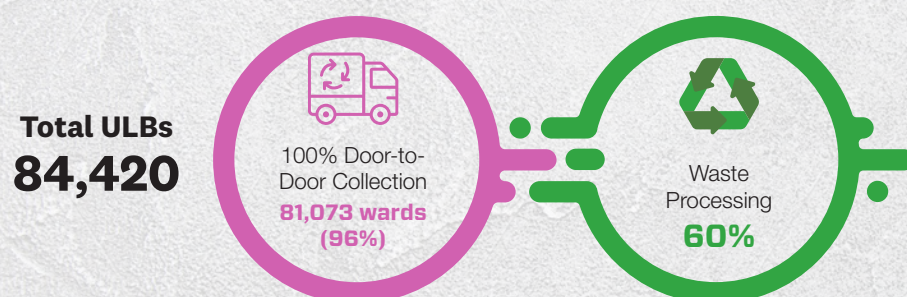
## Sanitation



Total ULBs - 4,372

\*Except 52 ULBs of West Bengal

## Solid Waste Management



## Total Individual Household Latrines Constructed



**65.91 lakh**

>100%

## Total Community/ Public Toilets Constructed



**6.13 lakh**

>100%

## Star Rating for Garbage Free Cities

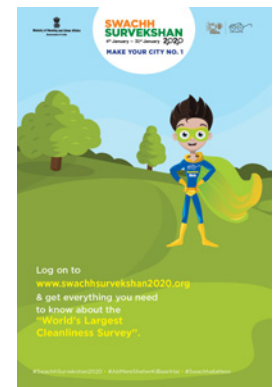
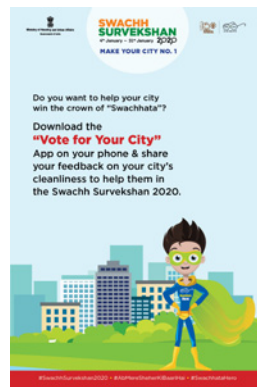
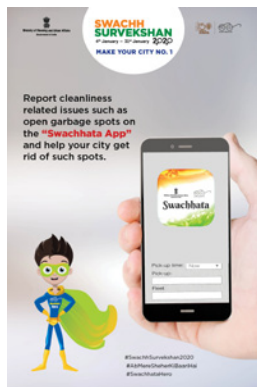


Swachhata App - **1.6+ crore** downloads, **1.83+ crore** complaints posted, with 93% resolution rate.



The Swachh Survekshan campaign is in full swing with cityscapes and social media pages being dotted with our Swachhata Heroes giving us tips on how to win the Swachhata crown!

**Here is a glimpse of our campaigns**



Do you want to help your city  
win the crown of “Swachhata”?

Download the

**“Vote for Your City”**

App on your phone & share  
your feedback on your city’s  
cleanliness to help them in  
the Swachh Survekshan 2020.

