

Swachh Bharat Mission - Urban 2.0



Making Cities Garbage Free

Operational Guidelines
October 2021



“ ... स्वच्छ भारत मिशन २.० का लक्ष्य है
गार्बेज फ्री शहर, कचरे के ढेर से पूरी तरह मुक्त,
ऐसा शहर बनाना ... ”

Shri Narendra Modi

Prime Minister of India

[Excerpt from the address of the Prime Minister on the occasion of launch of
Swachh Bharat Mission – Urban 2.0, on 1st October, 2021]

MESSAGE FROM HON'BLE UNION MINISTER

हरदीप एस पुरी
HARDEEP S PURI



Message

आवासन और शहरी कार्य मंत्री
पेट्रोलियम एवं प्राकृतिक गैस मंत्री
भारत सरकार
Minister of
Housing and Urban Affairs; and
Petroleum and Natural Gas
Government of India

The Swachh Bharat Mission – Urban launched in October 2014 by the Hon'ble Prime Minister resulted in the most fundamental behavioural change brought about in Urban India, primarily because the Mission was not implemented as a Government programme but as a “Jan Andolan”.

The second phase of SBM-Urban launched by Hon'ble Prime Minister on 1 October 2021, with a total outlay of ₹1,41,600 crores – nearly 2.5 times of the SBM-Urban - is a reaffirmation of the confidence placed on us by the people of India to take them to the next level of Swachhata over the next five years. The fact that the SBM-Urban 2.0 has been launched during India's 75th anniversary of independence, under the overall ambit of Azadi ka Amrit Mahotsav, provides an added historical significance to Urban India's tryst with sanitation and swachhata.

In this context, I am happy to see the operational guidelines for SBM-Urban 2.0 issued by the Ministry of Housing & Urban Affairs, which is not only a testament to how far we have travelled in our quest for a clean India but also provides Urban Local Bodies and State Governments with comprehensive directions to fast track their journey towards becoming “**Garbage Free** cities” by 2026.

New Delhi
25 October 2021


(Hardeep S Puri)

MESSAGE FROM HON'BLE MINISTER OF STATE

कौशल किशोर
KAUSHAL KISHORE



सत्यमेव जयते



आवासन और शहरी कार्य राज्य मंत्री
भारत सरकार
Minister of State, Housing & Urban Affairs
Government of India

महात्मा गाँधी जी ने जिस स्वच्छ भारत का स्वप्न देखा था, आज उसे माननीय प्रधानमंत्री के मार्गदर्शन और स्वच्छ भारत मिशन के द्वारा पूरा किया जा रहा है। आज हमारा शहर पहले की अपेक्षा ज्यादा साफ, सुंदर और स्वस्थ हो गया है। आज स्वच्छ भारत एक मिशन ही नहीं, बल्कि एक जन आंदोलन बन गया है। आज स्वच्छ भारत मिशन 1.0 की सफलता और जन भागीदारी को देखते हुए तथा देश को और भी बेहतर और सशक्त बनाने के लिए हमारे माननीय प्रधानमंत्री जी ने 1 अक्टूबर 2021 को स्वच्छ भारत मिशन 2.0 की शुरुआत की है।

स्वच्छ भारत मिशन 2.0 में ठोस अपशिष्ट प्रबंधन, प्रयुक्त जल प्रबंधन, फीकल स्लज मैनेजमेंट, सैनिटेशन जैसे अन्य कई विषयों पे ध्यान दिया जाएगा। इस मिशन के तहत अर्बन लोकल बॉडीज, उनके कर्मचारी और हमारे सफाई मित्र की क्षमता निर्माण पे विशेष ध्यान दिया जाएगा। स्वच्छ भारत मिशन 2.0 न केवल अर्बन लोकल बॉडीज बल्कि देश को भी सस्टेनेबिलिटी की दिशा में ले जाएगा।

इन सब को ध्यान में रखते हुए आज मैं गर्व से कहना चाहता हूँ कि स्वच्छ भारत मिशन 2.0 की गाइडलाइंस, जोकि एस.बी.एम-अर्बन मिशन प्रबंधन विभाग के द्वारा लांच किया गया है, जो न केवल शहर बल्कि देश को एक नए आयाम की तरफ ले जाएगा। आने वाले समय में हम सब देशवासी मिलकर इस स्वच्छ भारत मिशन 2.0 को सफलतापूर्वक अपनाएंगे और देश को पूर्ण रूप से स्वच्छ और स्वस्थ बनाएंगे।

जय हिन्द।

MESSAGE FROM SECRETARY – MoHUA

दुर्गा शंकर मिश्र
सचिव
Durga Shanker Mishra
Secretary



भारत सरकार
आवासन और शहरी कार्य मंत्रालय
निर्माण भवन, नई दिल्ली-110011
Government of India
Ministry of Housing and Urban Affairs
Nirman Bhawan, New Delhi-110011

Foreword

The last seven years has witnessed a radical change in the Urban sanitation scenario in India. Our cities, streets, neighbourhoods have become visibly cleaner, and there has been a marked positive change in attitudes and mindsets of citizens towards 'swachhata'. In fact, Swachh Bharat Mission has emerged as the largest behavioural change programme in the world.

In order to sustain the outcomes achieved under SBM-Urban, we have now embarked on the second phase of our swachhata to realise the vision of Hon'ble Prime Minister. In the second phase, our efforts towards complete Solid Waste Management will continue, with greater focus on issues such as remediation of all legacy dumpsites, where approximately 15,000 acres of land can be reclaimed through remediation of 16 crore tonnes of legacy wastes, setting up Construction & Demolition (C&D) waste plants and procuring mechanical sweepers in large cities, setting up Material Recovery Facilities and waste processing plants, and strengthening of Plastic Waste Management through focus on reuse and recycle of plastic waste and reduction in single use plastic usage, in order to achieve the ultimate vision of Garbage Free cities. Additionally, a new component has been added in this phase - that of used water management, in smaller cities (with less than 1 lakh population). Over the next 5 years, our focus will be on ensuring that no untreated used water is discharged into open lands and water bodies and significant amounts of treated waste water are reused. Parallely, we will be focusing on formalising the informal sector of waste collectors and sanitation workers by integrating them into the formal waste management chain, capacity building, especially for smaller ULBs, and sustaining the *Jan Andolan* i.e. for large scale citizens engagement

I hope that States/UTs and Urban Local Bodies (ULBs) will find these guidelines extremely helpful, to facilitate speedier implementation towards achieving the vision of "Garbage Free" India.

Durga Shanker Mishra

New Delhi
25TH October, 2021

MESSAGE FROM NATIONAL MISSION DIRECTOR, SBM (URBAN)

रूपा मिश्रा
संयुक्त सचिव एवं मिशन निदेशक
ROOPA MISHRA
Joint Secretary & Mission Director
Swachh Bharat Mission - Urban



भारत सरकार
आवासन और शहरी कार्य मंत्रालय
निर्माण भवन, नई दिल्ली-110011
GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
NIRMAN BHAWAN, NEW DELHI-110011

Preface

The success story scripted under Swachh Bharat Mission - Urban over its 7-year journey has poised urban India for its leap into the next level of 'Swachhata'. Swachh Bharat Mission - Urban 2.0, launched by Hon'ble Prime Minister on 1st Oct 2021 on the eve of Swachhata Divas has raised the aspirations of citizens, with the ambitious vision of creating "Garbage Free Cities".

2. For time-bound realization of this vision, it was felt necessary to further streamline existing systems and processes so that States/UTs, ULBs and parastatal bodies can duly accelerate the pace of implementation. The new guidelines are based on the following principles: (a) saturation approach with inclusion and "people first" at its core - to ensure that every category of citizen is covered; (b) ease of governance - where Mission is completely technology-agnostic, with sufficient flexibility and discretion given to States/UTs; (c) transparency and accountability - through extensive use of digital interventions for ease of user access and real-time information flow; (d) equity - to ensure that smaller ULBs are provided with adequate opportunities to improve their cleanliness status; and (e) outcome focused - by emphasizing on capacity building and behavior change, and financial support tied to achievement of specific deliverables; to ensure that the Mission's vision is realized, within the defined time frame of 2021-26.

3. These guidelines have evolved after multiple rounds of stakeholder consultations, and incorporating their feedback. This is a dynamic document which can be supplemented from time to time based on the changes in ground realities. I sincerely hope that these Guidelines will constitute the bedrock to achieve the goals of SBM-U 2.0 that will in turn shape the face of urban transformation in India, and collectively, we will realise the vision of "Garbage Free Cities".

(Roopa Mishra)

Joint Secretary & National Mission Director
Swachh Bharat Mission-Urban

New Delhi
26th October 2021

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INTRODUCTION

Provides an overview of achievements of SBM–Urban, so far, and introduces SBM Urban 2.0.

1.1 Background

The Sustainable Development Goals (SDGs) place significant emphasis on sanitation, cleanliness and hygiene. There is evidence globally that better sanitation, hygiene and cleanliness helps in effective control of various vector borne diseases, parasite infections and nutritional deficiencies. There have been studies linking cleanliness and hygiene with reduction in respiratory disorders, gastrointestinal diseases (especially diarrhea), psychological issues and allergic conditions.

Decades ago, Mahatma Gandhi said that *‘sanitation is more important than political freedom’*. The launch of Swachh Bharat Mission on 2nd October 2014 by the Honb’le Prime Minister Shri Narendra Modi was a historic moment for India. It not only placed the issue of sanitation at the centre of the Government’s developmental agenda, but also sent out a resounding message- through the Prime Minister’s address from the ramparts of the Red Fort.

Swachh Bharat Mission (Urban) (SBM-U) had three major objectives: (a) achieving 100% Open Defecation Free (ODF) status, (b) ensuring 100% scientific Solid Waste Management

(SWM), and (c) behavior change through *‘Jan Andolan’*, by 2nd October 2019, in all statutory towns. The outlay of the Mission was ₹62,009 crores, including GoI share of ₹14,623 crores, and minimum State share of ₹4,874 crores. Balance funds (₹42,535 crores) were to be generated through individual beneficiary contribution, PPP and other sources.

1.2 Achievements

This Mission has achieved significant levels of success against the above objectives, with massive engagement of citizens across all categories of society.



1.2.1 India’s journey in Solid Waste Management: the launch of SBM-U, coupled with the promulgation of SWM Rules 2016 C&D waste rules, Plastic Waste Management rules etc, all combined to set the stage for India

to accelerate its progress on effective Solid Waste Management. Where unsightly heaps of garbage dotting the urban landscape, wreaking havoc on citizens' health used to be a common phenomenon prior to 2014, today there have been noteworthy improvements. Cities have become visibly cleaner, thanks to the fleet of more than 2.5 lakh collection vehicles that travel from door to door, collecting household and other solid waste. Source segregation of waste, which was negligible earlier, have now captured the imagination of citizens and being adopted by more and more households. An enabling eco-system has been created through policy reforms designed to encourage conversion of waste to value added products. Awareness has also been generated on critical issues such as source segregation of waste, effective management of construction & demolition waste, reduction in single-use plastic usage, etc.



The results are there for all to see. At the time of its launch, the Municipal Solid Waste (MSW) treatment capacity was 26,000 TPD of waste (18%). This has been enhanced substantially in the last 7 years, and presently, waste processing capacity stands at nearly 1 lakh TPD (70%).

Door to door collection and source segregation have gone up from negligible levels in 2014 to cover 86,228 wards (97%) and 72,493 wards (85%) respectively. Economically weaker sections of society, especially women self-help group members from urban poor communities have more livelihood options, and over 90,000 informal waste workers have been formalized into the waste management value chain.

1.2.2 India's ODF journey: Urban India has become Open Defecation Free (ODF) under SBM-Urban: a fitting tribute to Mahatma Gandhi's vision. Not only has the sanitation objective of the Mission been fulfilled, but lakhs of citizens, especially women, have been provided dignity and safety, and significant reduction in vector borne diseases with consequent improvement in health parameters have been experienced, setting Urban India on the path of holistic cleanliness. Sanitation workers and SafaiMitras, a largely ignored section earlier, have become a key stakeholder for the Mission, with initiatives being taken to ensure safe, healthy and improved living conditions for them, and providing them with



better livelihood options, dignity and respect. In terms of tangible outcomes, all Urban areas of 35 States/ UTs have become ODF (except 1 ULB of West Bengal), i.e. 4,371 ULBs (out of 4,372) have become ODF. This has been achieved through the construction (including under construction) of 66.86 lakh Individual Household Toilets (113% progress), and 6.40 lakh seats of Community/ Public toilets (CT/ PT) (126% progress).



1.2.3 Third party assessments & standardized protocols: In order to sustain the ODF status and ensure that no slippage occurs, MoHUA has introduced the ODF+ and ODF++ protocols. ODF+ protocol focuses on O&M of CT/ PTs by ensuring their functionality and proper maintenance for continued usage. ODF++ protocol focuses on addressing safe containment, evacuation, transportation and processing of fecal sludge from toilets and ensuring that no untreated sludge is discharged into open drains, water bodies or in open fields.

Water+ protocol helps ensure that no untreated waste (used) water is discharged into the open environment or water bodies. Till 2nd October 2021, 3,309 cities have been certified ODF+, 960 cities have been certified ODF++, and 9 cities have become Water+, through third party verification.



1.2.4 Behavior change through Jan Andolan: SBM-U has emerged as the largest urban sanitation behaviour change program in the world and has been able to accelerate India's progress in ensuring availability and sustainable management of water and sanitation for all (SDG 6). Under SBM-U, the sanitation discourse has been brought onto the centre stage of the nation's development agenda and has helped to transform a government mandate into a 'Jan Andolan'. Through the personal leadership and involvement of the Prime Minister, SBM has been able to put the sanitation discourse into a 'Jan Andolan', a people's movement. Massive mass media campaign, intensive outreach programs, stringent monitoring of Information, Education and Communication (IEC) fund spend, multiple stakeholder involvement including by celebrity brand ambassadors and influencers have been the pillars of its behavior change strategy. However, the major trigger for

behaviour change has been the ownership that people from the community have taken when it comes to leading and sustaining change on the ground. Through a judicious use of traditional, digital, social media campaigns and intensive interpersonal communication, SBM-U has been able to activate all categories of citizens

- community volunteers, youth, students, home makers, senior citizens, celebrities, elected representatives, media and the industry. Till date, over 20 crore citizens have been engaged in the Mission, which is testimony to the 'Jan Andolan' that has been created.



1.2.5 Innovations

A variety of innovations have contributed to the success of the first phase of the Mission, as given below.

1.2.5.1 Swachh Survekshan: An innovative survey conducted by the Ministry of Housing and Urban Affairs (MoHUA) under the SBM-U, to rank cities on various sanitation and cleanliness parameters. The survey has been successful in enthusing cities with a spirit of healthy competition towards the concept of 'swachhata'. Swachh Survekshan has now emerged as one of the largest Urban sanitation surveys in the world, with participation from crores of citizens. As on 2nd October 2021, 6 rounds of surveys have been conducted, in which Indore has been adjudged the cleanest city for four years in a row. The 7th edition has now been announced, and is set to kick-off.

1.2.5.2 Star rating protocol for Garbage free cities: The protocol, based on various SWM parameters follows a SMART framework – Single metric, Measurable, Achievable, Rigorous verification mechanism and Targeted towards outcomes. The indicators include all components of SWM, viz. source segregation, scientific processing of waste, dumpsite remediation, penalties & spot fines for littering, compliance by bulk waste generators, cleanliness of drains & water bodies, plastic waste management, and managing construction & demolition waste, etc. which are critical for cities to achieve garbage free status. Till date, 6

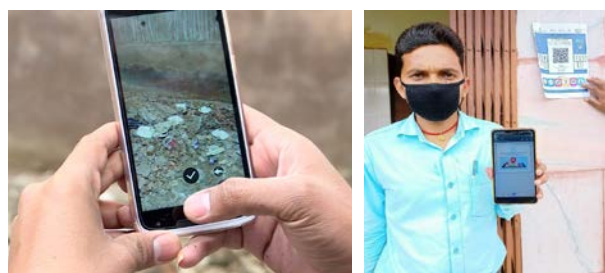
cities have been rated as 5-star cities, 86 cities as 3-Star and 65 cities as 1-Star.

1.2.5.3 *Citizen connect through ICT initiatives:*

- MoHUA has partnered with Google to map all public toilets on Google maps, thereby improving ease of access of sanitation facilities to citizens. Till date, more than 65,500 public toilet blocks across more than 3,100 cities are accessible through Google maps covering more than 70% of India's urban population.



- More than 2 crore citizens have downloaded Swachhata App (citizens' grievance redressal platform for all sanitation and waste management related complaints). Nearly 2.22 crore complaints have been registered and 2.08 crore complaints have been resolved with more than 90% resolution rate.



- MoHUA has deployed e-learning platform to train municipal functionaries across India.

The platform hosts over 175 modules on various topics covering sanitation and waste management. More than 90,000 municipal employees and other users have actively used the platform, and successfully completed over 8.8 Lakh certifications (including 7.56 lakh certifications to govt. employees).

1.2.5.4 *Swachhata becomes everybody's business:*

The Mission engaged with a wide variety of stakeholders, from celebrities as brand ambassadors, engaging with influencers in society, partnering with industry partners and corporate entities, as well as social entrepreneurs, citizens, students and youth, women SHG groups, homemakers and senior citizens, to make 'swachhata' everybody's business.

1.2.5.5 *Equity, inclusiveness, addressing special requirements:*

In order to ensure that benefits of the Mission accrue to every citizen in an equitable and inclusive manner, standardized protocols were put in place. For example, the ODF+ protocol specified mandatory gender-friendly, child-friendly, divyang-friendly features to be included in every CT/PT. These protocols, along with mapping of all CT/PTs on Google maps ensured that every citizen's needs were catered to, with nobody left behind.

1.3 *Need for SBM-U 2.0*

NSSO had undertaken an impartial assessment

of the Mission in 2018. In its report of the 76th Round (with theme of Drinking Water, Sanitation, Hygiene and Housing Conditions of India: July – December 2018), the study found that 98% of toilets are being used in urban areas. Further, NITI Aayog has evaluated various Centrally Sponsored Schemes, including SBM-U, in its report dated 18th January 2021. Its recommendations include the following:

- a) need for continued investment in IHHLs and CT/PTs;
- b) need for focusing on entire sanitation value chain for inclusive sanitation, which also includes collection, containment, treatment, disposal and recycling of faecal waste and waste water;
- c) need for managing different types of solid wastes (including plastic, C&D and sanitary waste);
- d) need for budgetary support for disposal of legacy waste, management of plastic waste, C&D waste.



The above recommendations suggest, inter alia, to need for Mission to continue.

Moreover, the achievements under SBM-Urban need to be sustained in the long run with creation of adequate infrastructure, and their implementation needs to be accelerated manifold.

Hence, SBM-U 2.0 is needed, with the following areas of focus:

- to achieve the vision of a “Garbage Free” Urban India, more focus is required to be given to issues such as source segregation, collection & transportation, and processing, including effective management of Construction & Demolition waste, plastic waste management including reduction in single use plastic, and remediating all legacy dumpsites;
- to sustain the ODF status and prevent slippage, there is a need to ensure that all fecal sludge and waste(used) water are safely contained, transported, processed and disposed off, so that no untreated fecal sludge or used water pollutes the ground or water bodies;
- intensified focus is required to be given to IEC and behavior change through citizen outreach and *jan andolan*, as well as capacity building and skilling of all relevant stakeholders, towards achieving the Mission’s objectives.

1.4 Mission is now being extended for a period of 5 (five) years, from 1st October 2021 to 1st October 2026, as Swachh Bharat Mission

(Urban) 2.0 (SBM-U 2.0), for completing the work remaining, institutionalizing 'swachh' behavior and making it sustainable. The Government of India in partnership with States/ UTs and ULBs is committed to make all cities '**Garbage Free**' under SBM-Urban 2.0 in order to contribute to the achievement of the Sustainable Development Goals (SDG) 2030, which will ultimately improve the quality of life and ease of living of urban populations, thus leading to urban transformation.

SBM-U 2.0 will be implemented by MoHUA through States/ UTs in all statutory towns (as per Census 2011, and statutory towns added subsequent to that), in accordance with these guidelines.

OVERVIEW OF SBM-U 2.0

Sets out the overall approach for achieving the Mission's vision of creating a “Garbage Free” Urban India.

Salient features of SBM-U 2.0 including Mission components, funding pattern and guiding principles are detailed in the following sections.

2.1 Mission : Overall Vision, and Specific Objectives

SBM-U 2.0 will be implemented with a vision of achieving “**Garbage Free**” status for all cities. This will involve the following:

- all households and premises segregate their waste into “wet waste” (from kitchen and gardens) and “dry waste” (including paper, glass, plastic, and domestic hazardous waste and sanitary waste wrapped separately);
- 100% door to door collection of segregated waste from each household/ premise;
- 100% scientific management of all fractions of waste, including safe disposal in scientific landfills;
- all legacy dumpsites remediated and converted into green zones;
- all used water including fecal sludge, especially in smaller cities are safely contained, transported, processed and disposed so that no untreated fecal sludge

and used water pollutes the ground or water bodies.

In order to achieve this vision, the following specific objectives are targeted to be achieved:

In order to achieve this vision, the following specific objectives are targeted to be achieved:

- a) Sustainable Solid Waste Management
 - i. *ensuring cleanliness and hygiene in public places to make all cities clean and garbage free, with 100% scientific processing of MSW;*
 - ii. *reducing air pollution arising out of SWM activities;*
 - iii. *phased reduction in use of single-use plastic.*
- b) Sustainable Sanitation and treatment of used water
 - i. *holistic Sanitation, with end-to end solutions (from discharge, containment, evacuation, transportation to safe disposal of all effluents from toilets);*
 - ii. *treatment of used water¹ before discharge*

¹ Henceforth, wastewater will be referred to as ‘used water’ in the document and in all subsequent communications.. All formal communication on wastewater management from Centre, States/ UTs and ULBs may refer to “used water management” instead of wastewater management.

into water bodies, and maximum reuse of treated used water;

- iii. *eradication of hazardous entry into sewers and septic tanks, and sustaining elimination of manual scavenging, through mechanization of sewer and septic tank cleaning operations;*

c) awareness creation along with large scale citizen outreach to create 'jan andolan', and institutionalize 'swachh' behavior.

d) create institutional capacity to effectively implement programmatic interventions to achieve mission objectives

2.2 Mission Components for Funding

2.2.1 Sustainable Solid Waste Management

Objective: To make all cities clean and garbage free, with 100% scientific processing of Municipal Solid Waste

The following components would be eligible for funding:

- i. setting up of waste processing facilities such as MRFs, transfer stations, composting plants, bio methanation plants, RDF processing facilities, plastic waste processing facilities, waste to electricity, sanitary landfill, etc.
- ii. procuring mechanized sweeping equipment and setting up processing facilities for effective management of Construction and Demolition (C&D) waste (in 154 cities - as per list given in **Annex 1**)

- iii. *bio-remediation/ capping of all legacy dumpsites in all ULBs*

Note: No Central Government funds will be available for cost of setting up primary collection & transportation (C&T) systems, including modernization of existing systems.

2.2.2 Sustainable Sanitation

Objective: To sustain Open Defecation Free status in all Statutory towns

The eligible components for funding are (i) construction of Individual Household Latrines (IHHL), (ii) construction of Community and Public Toilet (CT and PT) seats, and (iii) construction of urinals, along with retrofitting of insanitary toilets.

2.2.3 Used water management

Objective: To ensure that no untreated fecal sludge or used water is discharged into the environment, and all used water (including sewerage and septage, grey water and black water) is safely contained, transported and treated, along with maximum reuse of treated used water, in all cities with less than 1 lakh population.

The following components would be eligible for funding:

- i. desludging equipment, for scheduled and need-based desludging of all septic tanks;
- ii. interception and diversion of drains (I&D) (including last mile connectivity for nearest sewer network);

iii. construction of Sewage Treatment Plants (STPs)/ STP cum Fecal Sludge Treatment plants (FSTPs) for used water treatment.

2.2.4 IEC/ BCC

Objective: To ensure awareness creation along with large scale citizen outreach to intensify 'Jan Andolan' and institutionalize swachh behavior and related set of actions, towards achieving the vision of "Garbage Free" cities

The following components would be eligible for funding:

a) National Level – A part of the overall IEC funds would be retained by MoHUA for the following:

- i. hiring of professional IEC/ BCC agency (on an outsourced basis) for developing IEC strategies, collaterals, content and tools and managing Social Media outreach;
- ii. dissemination of national level campaigns regarding various components of SBM Urban;
- iii. promotion of national level initiatives such as Swachh Survekshan, ODF+/ ODF++/ Water+ and Garbage Free certifications etc;
- iv. organisation of national level people centric events to raise advocacy for Garbage Free India.

b) State/ ULB level – the balance funds can be utilized at State/ULB for:

- i. dissemination of State/ ULB level campaigns regarding various components of SBM-U 2.0, including through interpersonal communication
- ii. empanelment and engagement of NGOs/ CBOs/ CSOs for grassroots mobilization and sensitization regarding SBM-U 2.0;
- iii. promotion of good practices at household/ individual level, collectives, RWAs, schools/ colleges, market associations etc;
- iv. organization of promotional events (such as 'plog' runs, mass triggering activity, competitions etc.) related to SBM-U 2.0.

2.2.5 Capacity Building (CB)

Objective: To create institutional capacity to effectively implement programmatic interventions to achieve mission objectives

The following components would be eligible for funding:

a) National Level – A part of the overall CB funds would be retained by MoHUA for the following:

- i. establishment of Center of Excellence (CoE);
- ii. funding Chair Professor positions in selected academic institutes and selected areas of expertise;

- iii. training of PHE officials and technical staff of MoHUA
 - iv. engaging knowledge partners, empaneling and hiring professional organizations to provide handholding and capacity building support to States/ UTs and ULBs;
 - v. creation and maintenance of eLearning portal;
 - vi. hiring of technical experts and professional agencies for smooth implementation of Mission, development and maintenance of ICT initiatives, creating videos and documentation for good practices, conducting national/ international exposure visits etc;
 - vii. funding Innovative pilots/ Startups as identified by relevant expert committees (subject to approval of NARC);
 - viii. organizing workshops and lectures;
 - ix. procuring third party vendors for field assessments and certifications for Swachh Survekshan, ODF+/ ODF++/ Water+ protocols, Garbage Free Star Rating protocols, etc;
 - x. procurement of Mission Management Unit (MMU);
 - xi. hiring interns for supporting SBM-U 2.0 at various levels;
 - xii. creating and supporting digital outreach tools such as Swachhta App 2.0, Swachh Manch 2.0, etc;
 - xiii. skill development activities as required;
 - xiv. any other activity required for creating institutional capacity
- b) State level- the following components would be eligible for funding:
- i. procurement of Program Management Unit (PMU) at State/ UT level;
 - ii. procurement of vendors/ agencies for Information & Communication Technology (ICT) initiatives, carrying out gap analysis, social audits, conducting workshops, lectures, exposure visits etc;
 - iii. hiring young professionals and interns for augmenting their internal human resources and also integrating the youth with SBM-U 2.0;
 - iv. hiring of NGOs/ CBOs/ CSOs for grassroots capacity building;
 - v. hiring technical institutions for training of manpower at State/ UT levels.
- c) ULB level- the following components would be eligible for funding:
- i. hiring young professionals and interns for augmenting their internal human resources and also integrating the youth with SBM-U 2.0;
 - ii. procurement of vendors/ agencies for ICT initiatives, carrying out gap analysis, social audits, conducting workshops, lectures, exposure visits etc;

- iii. hiring of NGOs/ CBOs/ CSOs for grassroots capacity building.

It may be noted Administrative and Office expenditure in a year should be kept as a proportion of actual expenditure / output rather than as a percentage of indicative outlay.

2.3 Duration of the Mission

The Mission will be in force for five years, from 1st October 2021 to 1st October 2026.

2.4 Mission Coverage: Cities and Target Population

All Statutory towns in India will be covered under the Mission

2.5 Mission Implementation:

Memorandum of Understanding: States/ UTs and ULBs have signed a tripartite Memorandum of Understanding (MoU) with MoHUA. This MoU represents collective intent of MoHUA, State/ UT and ULBs for creating “Garbage Free Cities”, through focus on complete source segregation, complete processing of all waste fractions, including processing of construction & demolition waste, plastic waste along with phased reduction of single use plastic, and remediation of all legacy dumpsites. MoHUA, States/ UTs and ULBs shall align themselves to the roles and responsibilities as per the MoU.

2.6 Mission Strategy: Guiding Principles

Drawing on learnings from SBM-U, the

following guiding principles and strategies are proposed to be adopted for implementing components of SBM-U 2.0, towards achieving the ultimate vision of a “Garbage Free” Urban India.

2.6.1 Jan Andolan: Equity and Inclusion at the heart of ‘swachhata’

- a) Bringing citizens to the centre of the Mission, by engaging all categories of citizens (e.g. women and homemakers, students and youth, senior citizens and retired personnel, religious leaders, social media influencers, celebrities and brand ambassadors, SHG groups, market and other industry associations, RWAs, elected representatives, etc.);
- b) All Self-help groups, especially women SHGs, either affiliated to Government programmes (e.g. NULM, NHM) or otherwise, to be used for ground level/ community level facilitations and interpersonal communication initiatives under SBM-U 2.0;
- c) Women leadership to be promoted in various phases of sanitation and waste management, from planning to O&M;
- d) ULBs to give special focus on sanitation and waste management needs of the urban poor (especially slum dwellers) and other vulnerable groups (senior citizens, girls, pregnant and lactating mothers, especially abled, third gender groups, migrants, homeless,

- construction labour etc.);
- e) All infrastructure created under the Mission, be it toilets, and waste processing facilities, as well as work places to have gender friendly and divyang-friendly features, for ease of access for all;
 - f) All infrastructure/ assets created under the Mission to be disaster resilient.
 - g) Recyclers and scrap dealers (both formal and informal sectors) to be integrated into the SWM recycling value chain;
 - h) Continued focus on behaviour change, with focus on functional outcomes (e.g ODF sustainability, regular desludging of septic tanks, ensuring cleanliness and hygiene in public and community toilets, and source segregation of household waste);
 - i) Ensuring safety and well-being of sanitation workers, through
 - i. Elimination of hazardous entry for sewer and septic tank cleaning through mechanization of cleaning operations, provision of protective gear/ PPE kits to sanitation workers, etc;
 - ii. Setting up of helpline numbers to enable citizens to register their request/ complaints and suggestions regarding desludging of septic tanks;
 - iii. Enabling social welfare benefits for all sanitation workers (formal, informal and contractual) such as life and health insurance, supporting formation of sanitation workers' collectives;
 - iv. Mandatorily setting up Responsible Sanitation Authority (RSA) and Sanitation Response Units (SRUs) covering all ULBs.
 - v. All categories of Sanitation workers to be given special focus through recognition as Champion safaimitras, and institutionalizing mechanisms for identifying and acknowledging their services.

2.5.2 Competition for Impact: Leveraging healthy competition among cities, with special focus on ULBs of aspirational districts

The Swachh Survekshan in SBM-Urban has demonstrated how a competitive monitoring framework can help to accelerate implementation, while also evolving into a governance tool. This approach will be continued through annual ranking survey Swachh Survekshan, for continuous monitoring and enabling agile governance for delivery of sanitation and waste management services to all citizens, including in aspirational districts.

2.6.2 Swachhata Standards

MoHUA has introduced several standardized protocols which include the ODF, ODF+,

ODF++, Water+ and Star Rating Protocol for Garbage Free Cities to ensure standardized outcomes in sanitation and solid waste management across Urban India under SBM-U. These protocols have provided a standard uniform framework to evaluate cities on 'Swachhata' criteria and is acting as a guiding document for cities and city representatives. These standardized protocols (ODF+, ODF++, Water+, Star Rating protocol for Garbage Free Cities, etc) with independent third-party assessment and certification will be continued for standardization of Mission outcomes.

2.5.4 *Capacity Building*

Building capacity for sustainable outcomes and aligning ULBs with Mission will be taken up in a focused manner, through:

- i. Strengthening of e-Learning and other proven platforms to build institutional and individual capacities in technical as well as governance aspects;
- ii. Focus on skill development in the sanitation and waste management sector.

2.5.5 *Partnerships*

The Mission will actively engage with all development partners, knowledge partners, sector partners and industry to leverage their support and assistance to accelerate Mission outcomes on the ground, as well as to strengthen institutional capacities in the SWM and Used water management sectors.

2.5.6 *Digital Enablement*

Robust ICT enabled governance, already a key feature under SBM-Urban, will be continued with intensified focus, to enable real-time monitoring of assets, to ensure their full capacity utilization, and make the Mission **digital and paperless**. It shall be mandatory for all projects and services to deploy digital tools to provide real time data on efficiency parameters in the operation phase.

2.5.7 *Technology promotion, innovation and encouragement for social enterprises*

The Mission will encourage adoption of locally innovated, cost-effective solutions and business models in sanitation and solid waste management by small scale and private entrepreneurs and start-ups, through investments in R&D, technology challenges, and facilitation for inclusion in GeM, in order to take forward the government's vision of an "AatmaNirbhar Bharat", and "Make in India".

2.5.8 *Focus on planning:*

ULBs will be required to draw up and submit various action plans, based on gap analysis, viz.

- a) City Solid Waste action plans (CSWAP) including inter-ministerial convergence with Government of India programs such as SATAT (MoPNG) (refer **Annex 2** for action plan format);
- b) City Sanitation Action Plans (CSAP) for sanitation and for sewage and septage Management (refer **Annex 3A and 3B**)

for action plan format), including inter-ministerial convergence with Government of India program of Namami Gange (National Mission for Clean Ganga);

- c) States/UTs would be required to aggregate the action plans to charter the overall journey for **Garbage Free** cities.

2.5.9 *Focus on functional outcomes and their monitoring*

A key feature of the Mission will be Outcome - based fund releases, where first and second instalments of funds of Central share will be released to States/ UTs subject to achievement of specified targets/ outcomes by States/ UTs and ULBs. The SBM-U MIS portal will be capturing ground-level data to monitor the extent to which the guiding principles are being taken forward in practice.

2.5.10 *Urban-Rural convergence*

Infrastructure projects will be taken up on cluster basis to cater to groups of neighboring ULBs and rural areas, so that common waste processing facilities are utilized efficiently.

2.5.11 *Creation of enabling environment, through:*

- a) creation of Model RFPs that States/ UTs and ULBs can refer to prepare their tender documents;
- b) facilitating procurement by States/ ULBs through GeM;

- c) encouraging start-up ecosystem/ Public Private Partnership in the States/ ULBs: Under SBM-U 2.0, projects under PPP mode are encouraged, to invite private capital in urban infrastructure as well as to bring in private sector efficiency in delivery of urban services and O&M. It is also understood that in the current scenario, there may be a requirement for viability gap funding. For Solid Waste Management, revenue streams such as Compost from organic waste, recycled construction material from C&D waste, etc. can be leveraged, while for used water Management, revenue streams such as compost from fecal waste, sale of recycled waste water, etc. can be leveraged for PPP projects.

2.5.12 *Leveraging 15th Finance Commission Grants (both tied and untied) to achieve outcomes*

Under 15th FC, cities with 10 lakh population and above are provided with a Challenge Fund of ₹13,029 crores over a 5-year period for meeting service level benchmarks on sanitation and Solid Waste Management. Further, out of total grant of ₹82,859 crore for ULBs with less than 10 lakh population, 40% of grants are untied, while 60% is tied to national priorities including sanitation and Solid Waste Management. States/ UTs and ULBs should leverage the 15th FC grants in addition to the SBM-U funds, for meeting Mission outcomes. However, it is to be noted that 15th FC grants shall not be used by State/ UTs to meet their

minimum share, as given in Table 4.5.2.

2.5.13 *Aligning with National Missions and National Priorities:*

The SBM-Urban 2.0, through its implementation components will strive to align with national priorities, Missions and programmes, a few indicative examples of which are given below:

- dust mitigation through C & D waste management would align with **National Clean Air Program (NCAP)**;
- focus on encouraging start-ups and social entrepreneurs as part of the Mission's private sector engagement strategy would dovetail with mandates of **Start-up India & Make In India**;
- given its intensified focus on digital enablements to accelerate Mission outcomes and citizen outreach, and integrated approach for monitoring all Mission outcomes, the Mission will be aligning with the mandates of **Digital India, National Urban Digital Mission (NUDM)** and **Smart Cities Mission**;
- intensified focus on capacity building with skill development at its core will be aligning to mandates of **Skill India**;
- special focus on Ganga towns and accelerating their Solid Waste Management initiatives will align with the **Namami Gange** programme;
- special focus on bio-methanation of wet waste is proposed to be undertaken in

alignment with the **SATAT** programme of Ministry of Petroleum & Natural Gas;

- focus on sanitation workers and SafaiMitras to ensure their safety, well-being and improved livelihood options will align with the mandates of **Ministry of Social Justice and Welfare**;
- additionally, Mission will work to ensure that all government offices, work places and premises adhere to the standards of Garbage Free protocol, so that 'swachhata' and Garbage Free becomes everybody's business.

2.6 Mission Outcomes

The following measurable outcomes are expected to be achieved by the end of the Mission tenure:

- All statutory towns are certified at least 3-star Garbage Free, or higher.
- All statutory towns become at least ODF+;
- All statutory towns with less than 1 lakh population become at least ODF++;
- At least 50% of all statutory towns with less than 1 lakh population become Water+;

2.7 Overall Funding

The estimated cost of implementation of SBM-U 2.0 for its various components is **₹1,41,600 crores**. The Government of India share will be **₹36,465 crores**. The balance amount shall

be contributed by individuals as beneficiary contribution, States and UTs/ ULBs/ Private Sector under PPP. Wherever private sector funding is not available, State/ UT will need to provide the necessary funds. Balance funds are to be generated through various other sources of funds including Corporate Social Responsibility (CSR) funds from public/ private sector, external assistance etc.

MISSION MANAGEMENT STRUCTURE

Sets out the overall approach for creating a multi-level governance structure that is empowered to facilitate speed and ease of implementation, including fund release, along with adequate oversight and checks for quality .

SBM-Urban 2.0 will have a four-tier mission management structure as follows:

3.1 National Level

3.1.1 National Advisory and Review Committee (NARC)

NARC, headed by Secretary-MoHUA and comprising representatives of SBM-Grameen and other relevant line ministries will be notified by MoHUA. NARC will consist of the following members:

- i. Secretary – MoHUA: Chairman
- ii. National Mission Director , SBM-Urban (MoHUA): Member Secretary
- iii. Joint Secretary & Financial Advisor, MoHUA: Member
- iv. Advisor/ Joint Advisor , CPHEEO: Member
- v. Director, NIUA: Member
- vi. Members from :
 - a. Ministry of Jal Shakti / Department of Drinking Water and Sanitation (DDWS);
 - b. Ministry of Environment, Forests & Climate Change ;
 - c. Ministry of Chemicals and Fertilizer;

- d. Ministry of Petroleum & Natural Gas;
- e. Ministry of New & Renewable Energy;
- f. Ministry of Social Justice;
- g. Department of Expenditure;
- h. NITI Aayog;
- i. DAVP (Ministry of I&B);

The Chairman-NARC may, at his discretion, induct any other members based on requirement.

NARC will meet at least twice a year. The functions of NARC will be:

- i. overall planning for Mission progress;
- ii. reviewing and approving State/ UT action plans to achieve SBM-U 2.0 targets;
- iii. advising States/ UTs to explore avenues for innovative resource mobilization of private financing and leveraging land for PPP in sanitation projects;
- iv. approving installments and release of installment of funds for States / UTs by Central Government under SBM (Urban) 2.0;
- v. facilitating inter-ministerial convergence for accelerating Mission progress;
- vi. monitoring outcomes and performance of projects sanctioned under SBM (Urban) 2.0;

vii. any other issue which may be referred to it by the Government.

NARC may delegate, as it considers appropriate, some of the functions within prescribed limits, to the National Mission Director (NMD) of the SBM National Mission Directorate to ensure speedy implementation of the Mission.

3.1.2 National Mission Directorate (NMD)

- SBM National Mission Directorate will be headed by a National Mission Director (NMD) who will not be below the rank of Joint Secretary to the Government of India;
- NMD will be the overall in-charge of all activities related to SBM-U 2.0 and will be supported by a suitable team of officers at the National Mission Directorate. Further, NMD will be Member-Secretary of NARC;
- NMD shall be supported by a dedicated Project Management Unit (PMU)/ Technical Support Unit (TSU) with adequate numbers of experts and support staff mainly on an outsourced basis. Technical support to NMD to achieve Mission objectives will be provided by Central Public Health & Environmental Engineering Organisation (CPHEEO).

3.2 State Level

3.2.1 State High Powered Committee (SHPC):

- SHPC under the chairpersonship of the State's Chief Secretary, and with members drawn from concerned departments shall be responsible for the management of SBM-Urban 2.0 at the State/ UT level;

• An indicative composition of SHPC is given below:

- i. Chief Secretary: Chairman;
- ii. Principal Secretary (Urban Development): Member;
- iii. Principal Secretary (Public Health & Engineering): Member;
- iv. Principal Secretary (Finance): Member;
- v. Principal Secretary (Housing): Member;
- vi. Principal Secretary (Environment & Forest): Member;
- vii. Chairman – State Pollution Control Board: Member;
- viii. Representative of MoHUA: Member;
- ix. Mission Director of SBM-Grameen at State/ UT level: Member;
- x. State Mission Director: Member Secretary;

The SHPC may co-opt/ induct any other members based on requirement.

• The SHPC will play a majorly strategic role, including oversight of regulatory compliances, and will include:

- Planning
 - i. approving overall plan for achieving SBM objectives;
 - ii. planning for fund flow in the short, medium and long term;
 - iii. planning for additional resource mobilization;

- iv. selection of clusters so that common infrastructure could be shared between a group of cities/ towns/ contiguous rural areas;
- v. planning for encumbrance free land to be made available for setting up necessary infrastructure.
- Review and Implementation of project progress
 - i. ensuring convergence of action for sanitation and waste management in the urban and rural areas of the State and bringing about inter-departmental coordination for this purpose;
 - ii. conducting independent review and monitoring during execution of projects;
 - iii. ensuring timely audits of funds released and reviewing the “Action Taken Reports” on various audit reports of the mission and other similar reports.
- Capacity building of stakeholders
 - i. facilitating capacity building of parastatal bodies that would help ULBs to implement used water management;
 - ii. reviewing the progress of capacity building initiatives, IEC and public awareness activities under the mission.
- Miscellaneous
 - i. addressing violation of norms and conditions;
 - ii. reviewing legal issues, if any;

- iii. taking up any other matter relevant for the efficient implementation of the mission, or matters referred to it by the SBM National Mission Directorate.

3.2.2 State Level Technical Committee (SLTC):

For review and sanctioning of projects, there will be a State Level Technical Committee (SLTC), under the Chairpersonship of Principal Secretary – Urban Development, and State Mission Director- SBM as Convenor. An indicative composition of SLTC is given below:

- xi. Principal Secretary: Chairman;
- xii. State Mission Director: Convenor;
- xiii. Pr. Secretary in charge of SBM-Grameen: Member;
- xiv. Pr. Secretary (PHE): Member;
- xv. Pr. Secretary (Finance): Member;
- xvi. Pr. Secretary (Environment & Forest): Member;
- xvii. Representative, SPCB: Member;
- xviii. Representative of MoHUA: Member;
- xix. Representative of relevant parastatal entities.

The SLTC may co-opt/ induct any other members based on requirement.

The role of SLTC will include:

- i. preparation of State action plans with annual timelines to create ULBs ODF+, ODF++, Water+, 3-star Garbage Free;
- ii. helping ULBs to prepare ULB level CSAP and CSWAP for sanitation, used

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| <p>water and SWM for all cities covered under SBM-Urban 2.0;</p> <p>iii. facilitating use of IT enabled tools and solutions for preparation of DPRs;</p> <p>iv. reviewing DPRs and projects relating to Sanitation, Solid Waste Management, used water management, IEC and CB as recommended by the ULBs;</p> <p>v. approving projects for uploading on Proposal Tracking System (PTS) for fund release.</p> | <p>of sanctioned projects under the mission at the ULB level;</p> <p>ii. reviewing CSAP, CSWAP for all cities covered under SBM-U 2.0;</p> <p>iii. putting up consolidated State level plan (summation of all ULBs' plans) in terms of physical and financial targets, to SLTC</p> <p>iv. planning for additional resource mobilization;</p> <p>v. developing IT enabled tools and solutions for preparation of DPRs, or facilitate use of existing tools provided by MoHUA for DPR preparation;</p> |
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It is recommended that the SHPC meet at least twice a year, or more, while SLTC meets at least once in 3 months, or more frequently, based on frequency of receipt of proposals from ULBs.

3.2.3 SBM State Mission Directorate

- The SBM State Mission Directorate will be headed by a State Mission Director (SMD) of appropriate seniority. The SMD will also function as Member-Secretary to the SHPC, and Convenor to the SLTC;
 - The State Mission Directorate shall be supported by a dedicated PMU on deputation/ outsourced basis. The funding for the same can be met from the Capacity building funds under SBM-U 2.0 allotted to State/ UT.
- Role of State Mission Director will include the following:
- | | |
|--|---|
| <p>i. creating / notifying a uniform structure across the state for the planning, designing, project preparation, appraisal, sanction and implementation</p> | <p>vi. planning for fund flow in the short, medium and long term under guidance of SHPC;</p> <p>vii. recommending proposals for release of instalments of funds for projects under the Mission;</p> <p>viii. ensuring convergence of action for sanitation in the state and bring about inter-departmental coordination for this purpose as and when required;</p> <p>ix. ensuring timely audits of funds released and review the "Action Taken Reports" on various audit reports of the mission and other similar reports;</p> <p>x. empaneling agencies for conducting independent review and monitoring during execution of projects;</p> <p>xi. technical scrutiny of DPRs received from ULBs and facilitating convening of SLTC meetings under chairmanship of</p> |
|--|---|

- principal secretary(UD);
- xii. supporting Additional Chief Secretary/ Principal Secretary/ Secretary (Urban Development) in developing and placing agenda for SHPC meetings.
 - xiii. any other matter relevant for the efficient implementation of the mission, or matters referred to it by the SBM-U 2.0 National Mission Directorate.

3.3 District Level

- A District Level Committee (DLC) under the Chairpersonship of the District Collector will be set up at the District headquarters;
- The DLC will be responsible for overseeing all aspects of convergence between SBM-Urban 2.0 with SBM-Grameen, while implementing the respective Missions.

3.4 ULB Level

- The Municipal Commissioner (MC)/ Executive Officer (EO) of a ULB shall be the administrative authority responsible for implementing all components of the Mission at the ULB level.
- The MC/ EO will also be responsible for smooth and seamless implementation of all Mission components.
- The responsibilities of the MC/ EO will include the following:
 - i. facilitating capacity building of Municipal staff;

- ii. conducting gap analysis and preparation of CSAP and CSWAP;
- iii. preparation of DPR;
- iv. coordinating with State for getting sanctions from SHPC/ SLTC, and fund release for projects;
- v. implementing projects in a time-bound manner, along with continuous monitoring to ensure sustained functionality;
- vi. collection of user charges for ensuring financial sustainability of operations;
- vii. awareness and citizen engagement;
- viii. setting up City Sanitation Committees with participation of selected citizen representatives for periodically reviewing and monitoring efficient functioning of assets created.

FUNDING PATTERN

Sets out the overall principles for release of funds by Centre to States/ UTs, and leveraging of 15th FC grants by States/ UTs and ULBs to augment their fund availability for various Mission components.

Fund allocation under SBM-U 2.0 to States/ UTs, along with entry conditions for ULBs to receive funding, fund sharing pattern and method of leveraging funds from other sources to fund Mission components are outlined below in this chapter.

4.1 Entry level conditions

In order to participate in SBM-U 2.0, the following entry conditions would need to be mandatorily fulfilled by States/ UTs and ULBs:

- 4.1.1 *aligning property tax floor rates with market rates, with periodic revisions in line with GSDP, as recommended by 15th FC * (refer Note below)*
- 4.1.2 *levy and collection of user charges for services provided, to recover operational costs, with periodic increase; * (refer note below)*
- 4.1.3 *adoption of Public Financial Management System (PFMS) by all ULBs.*

*** Note:** Notification of property tax floor rate by States / UTs along with its adoption by ULBs and notification of user charges to recover a component of operational cost will be made mandatory conditions for Central Assistance. The States/UTs will have to implement them in first two years from launch of continuation Mission to be eligible for Central assistance from third year onwards

For user charge collection against 4.1.2 above, ULBs may, at their discretion, cross-subsidise urban poor families and economically weaker sections, the quantum of subsidy to be decided by the ULB.

4.2 State Nodal Account (SNA) and PFMS

To receive funds under SBM-U 2.0, all transactions will have to be made through DBT and/ or EAT modules, as applicable. In this respect, revised procedure for fund release as per Ministry of Finance OM number F. No. 1(13) PFMS |FCD/ 2020 dated 23rd March 2021, or as updated from time to time, will be applicable.

4.3 Public Private Partnership (PPP)

4.3.1 Under SBM-U 2.0, projects under PPP mode are encouraged, to invite private capital in urban infrastructure as well as to bring in private sector efficiency in delivery of urban services and O&M. It is also understood that in the current scenario, there may be a requirement for viability gap funding. For Solid Waste Management, revenue streams such as Compost from organic waste, recycled construction material from

- C&D waste, etc. can be leveraged, while for waste water Management, revenue streams such as compost from fecal waste, sale of recycled waste water, etc can be leveraged for PPP projects.
- 4.3.2 All ULBs must first explore possibility to take up the projects in a PPP mode (including cluster level projects catering to ULBs of varying population categories) for the above reasons. Government of India funds as per prescribed funding pattern will be available for claiming VGF. Payment of VGF from Central assistance will be 50% of the gap funding subject to maximum of 30% of project cost, or as could be the prevalent Central government guidelines. This could be paid in normal PPP mode or Hybrid Annuity Model (HAM) through escrow account. Government of India guidelines for financial support to PPP projects under VGF scheme can be referred for this purpose.
- 4.3.3 Release of VGF grants will be as per contractual arrangement with the private partner and as approved by State Government. However, it will be ensured that funds do not remain parked with the State Governments.
- 4.3.4 For cluster projects taken up on EPC mode, the fund release will be on pro-rata basis, depending on population category of ULBs proposed to be covered under the cluster.
- 4.3.5 State Governments can also add or generate funds for ULBs as additional funds over and above the minimum share prescribed for each component, required to make the projects viable.
- 4.3.6 Adequate funds will be released on acceptance of the proposal of the State Government for Toilets, SWM and Used water management projects.
- 4.3.7 States will release the Central Government share of VGF after adding their share in conformity with the contractual requirements of the project taken up on PPP mode.
- 4.3.8 In case State Government feels that a project is not suitable to be taken under PPP methodology, it may then consider the GoI share (as per funding pattern) to be treated as Grant from GoI to the ULB. It will be up to the State Government and ULB to arrange for the balance resources for the project, which must be ensured at the time of approving a project. Government of India guidelines for posing, implementation & monitoring of Externally Aided Projects (EAP) can be referred for this purpose.
- 4.4 Allocation of funds:**
- 4.4.1 The mission will be implemented with the following classification of funds for various components:

S. No.	Classification	Total Amount for Mission Period (₹ crore)
i.	Project Fund (for sanitation, SWM and Used water management)	1,25,430
	⌚ For SWM	39,837
	⌚ For sanitation	5,610
	⌚ For used water Management	79,983
iii.	Public Awareness & IEC Activities	6,271
iv.	Capacity Building & A&OE	3,763
v.	Committed Liability (Carried over from SBM-U)	6,136 *
vi.	TOTAL OUTLAY	1,41,600

* It may be noted that the 'Committed liabilities' will only be valid for release till 31st March 2023, beyond which the unclaimed amount would lapse.

4.4.2 The funding for SWM has been decided in a manner as to leverage the investments already made under SBM-Urban in SWM, whereas for used water management, the funding has been decided keeping in view the fact that it is a new component, requiring considerable ground work to be done.

- 90%:10% for ULBs in NE/Himalayan States,
- 100% for UTs without legislature,
- 80%: 20% for UTs with legislature,
- 25%: 75% for 10 lakh plus ULBs
- 33%: 67% for ULBs with 1 lakh to 10 lakh population (both included),
- 50%: 50% for ULBs with less than 1 lakh population

The structure of fund sharing among Centre and States/ UTs for various components are given below:

4.5 Fund Sharing

The Centre: State distribution of the Project fund will be as under:

4.5.1 For IHHLs

Sl No	Type of State/ UT	Central Share per unit (₹)	State/ UT share per unit (₹)
1	UTs without legislature	4,000	1,333 (to be borne by Centre)
2	UTs with legislature	4,000	1,333
3	North East and Hilly States	10,800	1,200
4	Other States	4,000	2,667

Note: - The estimated cost of IHHL is assumed to be ₹30,000 per unit

4.5.2 For CT/ PT/ Urinals/Used water management / SWM

Sl No	Type of State/ UT	Central Share per unit * (%)	Minimum State/ UT share per unit (%)	Balance (from 15 th FC funds, ULB share, pvt sector share)
1	UTs without legislature	100	0	-
2	UTs with legislature	80	20	-
3	North East and Hilly States	90	10	-
4	Other States: ULBs with population of above 10 lakh	25	16	59
5	Other States: ULBs with population between 1 - 10 lakh (both included)	33	22	45
6	Other States: ULBs with population of less than 1 lakh	50	33	17

4.5.3 For IEC and CB

Sl No	Type of State/ UT	Central Share (%)	State/ UT share (%)
1	UTs without legislature	100	0
2	UTs with legislature	80	20
3	North East and Hilly States	90	10
4	Other States	60	40

4.5.4 It is to be noted that the Central share of funds will be released in two (2) / three (3) instalments. Release clauses for each component have been detailed out in the respective chapters for each component. For IHHL, release clauses for 2 instalments are described in Section 5.1.6.1 and 5.1.6.2; for CT/PT/Urinals, the clauses are described in 5.2.7.3 and 5.2.7.4; for SWM, the clauses

are described in Sections 6.9.2, 6.9.3 and 6.9.4; for used water management, the clauses are described in Sections 7.10.2.1, and 7.10.2.2, and 7.10.2.3; for IEC, the clauses are described in Sections 8.7.3 and 8.7.4; and for CB, the clauses are described in Sections 9.16.3 and 9.16.4.

4.6 Others

4.6.1 The total funds allocated for IHHL,

CT/ PT and Urinals will be part of a consolidated package, with States/ UTs having the flexibility to interchange their fund requests between any type of toilet. It may be noted that 25% of the allocated amount will be kept aside as 'floating funds' at GoI for sanitation, to cater to additional funding requests from States/ UTs for additional toilets (IHHL, CT/ PT/ Urinals)

4.6.2 For the balance amounts required for all the above component, States/ UTs and ULBs will need to leverage 15th FC funds, private sector participation or any other source of funds.

4.6.3 MoHUA will endeavour to earmark at least 10% of total fund allocation for each year for NE and Himalayan States.

4.6.4 Distribution of Project Fund across States/ UTs are at **Annex 4**. The distribution is calculated on the basis of weighted average of (a) percentage of urban population of State to total urban population of India (90% weightage), and (b) percentage of area of State to total area of India (10% weightage).

4.6.5 Sanction of projects (DPR):

4.6.5.1 Projects will be sanctioned by SLTC as prescribed in these guidelines.

4.6.5.2 Only new projects will be considered under the Mission and it will be ensured that there is no duplication. Projects will be considered as "new" if they are not already sanctioned and ongoing

under State and central schemes and externally-aided programmes/projects.

4.6.5.3 For Detailed Project Reports (DPRs) to be prepared for project sanction, fund release and monitoring, the cost of DPR preparation and their vetting through empaneled agencies/ institutes for the projects under the Mission shall be reimbursed from the project funds of respective components. Cost of DPR preparation should be discovered through open competition, and subject to an upper limit as may be prescribed separately by MoHUA from time to time.

4.6.5.4 States/ UTs will be required to present their consolidated action plan for achieving all Mission components to NARC within 6 months of submitting their State vision for the specific component.

4.6.5.5 States/ ULBs are encouraged to use IT-enabled solutions for DPR preparation.

4.6.6 Emerging/ innovative solutions and technologies may be shared by States and ULBs for consideration by the Technology Evaluation Committee (TEC) for Solid & Liquid waste management set up by MoHUA. Some of these potential technologies would be extended financial support to test them on pilot basis subject to recommendations of the TEC, and approval of NARC.

4.6.7 Amendment in nature of projects:

- 4.6.7.1 The SLTC will have the flexibility to re-determine the targets for IHHLs and CT/ PTs/ Urinals, subject to State-wise overall funds envelope (sum of allocation for IHHL and CT/ PTs for the entire mission period) remaining unchanged.
- 4.6.7.2 Under special circumstances, States/ UTs may change nature (costing, type) of projects for which funds have already been released by MoHUA, but before actual expenditure is incurred. In order to effect such changes, the amendments of the project should be approved by SHPC and sent to MoHUA for concurrence, before the revised project is implemented.
- 4.6.7.3 States/ UTs may also redistribute released funds among its ULBs, subject to SHPC approval of such redistribution, and subsequent concurrence by MoHUA, before actual expenditure. This will ensure fungibility of funds and optimum utilization of resources towards achieving the Mission objectives.

TOILETS (IHHL, COMMUNITY/PUBLIC TOILETS, URINALS)

Sets out a saturation approach to ensure that every citizen of Urban India has access to safe sanitation infrastructure, along with access to safe containment facilities for fecal sludge.

5.1 Individual Household Latrines (IHHL)

5.1.1 Target Group

The target group for construction of Individual Household Latrines (IHHLs)/ Toilets is:

- (i) *new independent households;*
- (ii) *all new households who might have migrated to urban areas;*
- (iii) *all households with previous access to community toilets, who might want to have their own facility;*
- (iv) *all households with insanitary latrines.*

5.1.2 Selection of Beneficiary Households

5.1.2.1 Selection of Beneficiary Household shall be as per following guiding principles:

- i. *ULBs to conduct gap analysis to evaluate the number of new IHHLs required;*
- ii. *In case a family has received funds for construction of IHHL under any earlier scheme, the same family would not be eligible to receive funds for toilets again;*
- iii. *A ULB which has been declared at*

least ODF+ may also request funds under SBM-U 2.0 provided the survey reveals the need for additional IHHL units.

5.1.2.2 Eligible beneficiary households will be provided toilets under this scheme irrespective of whether they live in authorized/ unauthorized colonies or notified/ non-notified slums. Under SBM-U 2.0, tenure security issues are to be de-linked from benefits.

5.1.3 Construction & Design

5.1.3.1 Household toilets constructed will have two main structures: (i) toilet superstructure (including pan and water closet), and (ii) substructure with septic tank and soak pit (on-site treatment system), or a connection to an existing underground sewerage system. The on-site disposal system comprising of a septic tank with soak pit will be designed as per IS -2470 Pt-1 & 2 (in the event that a sewerage system is not available within 30 meters from the proposed household toilet).

5.1.3.2 Wherever a sewerage system is available within 30 metres from the proposed household toilet, only the toilet superstructure may be constructed

- and toilet connected to the existing sewerage system. In case there are more than one house beyond 30 meters from nearby sewer line, ULB will endeavor to connect these houses with nearby sewerage system by pooling resources from beneficiary households including from State/ UT & ULB's shares.
- 5.1.3.3 All IHHL being constructed should be built in tandem with water supply arrangements in ULBs. Beneficiaries will be responsible for the operation and maintenance of the household toilets. Additionally, ULBs may explore innovative household toilet models brought out by private sector players/ entrepreneurs, as long as they meet the accepted scientific standards of safe disposal.
- 5.1.4 Operation & Maintenance
- ULB will need to carry out periodic desludging of pits (as per ODF++ protocol) to prevent slippage or slide-back to OD practices.
- 5.1.5 Application for IHHL
- 5.1.5.1 ULB must ensure Aadhar seeding of all IHHL beneficiaries. All financial incentives (government and/or private) for this component will be deposited directly (by electronic clearing service) into the Aadhar-linked bank accounts of the beneficiary households;
- 5.1.5.2 Application for IHHL may either be made through UMANG app, or through the mSBM app and uploaded online on the SBM portal. Final verification of the construction of the household toilet should be supported by location-based technologies, wherein geo-tagged photographs of the construction, along with the applicant are taken.
- 5.1.5.3 These photographs must be uploaded through the UMANG or mSBM app, to the SBM-Urban 2.0 MIS;
- 5.1.5.4 The ULB shall verify each application for genuineness of requirement before releasing any funds. Verification of the application should be completed within 7 working days of its submission by the beneficiary.
- 5.1.6 Fund Release Mechanism for IHHL (as mentioned in section 4.5.4)
- 5.1.6.1 50% of the Central Government funds will be released to the State/ UT as 1st instalment, on fulfilment of the entry conditions given in Section 4.2, and following additional condition:
- *ULBs to upload their latest progress data on the MIS portal.*
- 5.1.6.2 The remaining 50% of Central Government funds as 2nd instalment shall be released to the State/ UT, along with fulfilment of following conditions:
- *Documentary evidence of 50% completion of construction target (State/ UT level);*

- State has expended 75% of State/ UT share;
- UC submitted by State / UT for 75% of first instalment released.

5.1.6.3 States/ UTs to invite private sector funds/ CSR to the maximum extent possible for any additional IHHL that may be required.

5.2 Community Toilets (CTs)/ Public Toilets (PTs) & urinals

5.2.1 Target Group

While CT/ PTs and Urinals have been constructed under SBM-U, it is expected that there will still be some households which are at considerable distances from the nearest CT. Higher influx of floating population is also expected in Urban areas. Hence, additional number of CTs, PTs and Urinals will be targeted for construction under SBM-U 2.0 for better accessibility and functionality, even if ULB is at least ODF+ certified. In this context, it may be noted that ULBs should prioritise IHHL access for all households, and only in cases of land constraints should CTs be provided, with seats earmarked for selected families so that they the families feel a sense of ownership and maintain them as their own.

5.2.2 Location of CTs, PTs, Urinals

5.2.2.1 ULBs will need to identify all possible Open Defecation/ Open Urination

vulnerable points (yellow spots) (“OD/ OU hot spots”) and make provisions for adequate numbers of CTs/ PTs and Urinals at easily accessible distances, which in turn will lead to elimination of hotspots.

5.2.2.2 ULBs should ensure that:

- every household dependent on CTs has access to one within a maximum distance of 500 metres from their homes, and
- every public place (bus stops, petrol pumps, metro stations, market places, religious and tourist locations, health centres, citizen centres) has at least one PT/ Urinal available within 500 metre distance, and that the facilities are kept clean, functional and open for public use.

5.2.3 Aspirational toilets

ULBs will have to provide additional **PTs in all tourist destinations/ places with high footfall/ iconic cities/ religious destinations, etc.** It is suggested that these additional PTs be made in “aspirational category”, with the following indicative features:

- Walls and floors are clean and stain / graffiti free
- Low height toilets/Indian toilets and basins for children
- Plants / shrubs in the vicinity of toilet complex are well maintained

- d) Space earmarked for advertisement for revenue generation (Even if advertisement is not available marks will be awarded)
 - e) Hand dryer / paper napkin available
 - f) Ladies' toilets have vending machine for sanitary napkins
 - g) Incinerator facility available for disposal of used sanitary napkins for toilet having > 10 seats
 - h) Toilet identification number, name of ULB under which jurisdiction toilet is covered, ward number and maintenance authority prominently displayed for each toilet block
 - i) SMS based feedback with number displayed on which SMS has to be sent
- Annex 9** details out all the features that are required for a toilet to be as “aspirational toilet”.
- 5.2.4 Central assistance as per the norms outlined in paragraphs 5.2.5.2 & 5.2.5.3 below will be provided for such PTs. ULBs will be required to indicate the additional footfall expected at these tourist locations while preparing the DPRs for fund release.
- 5.2.5 Construction & Design
- 5.2.5.1 Care should be taken to ensure that all CT/PT/Urinals being constructed under SBM-U 2.0 are built in tandem with water supply arrangements of the ULB. These facilities should also have adequate provision for separate toilets & bathing facilities for men, women, transgenders, and the disabled, as provided in the ODF+ protocol.
- 5.2.5.2 CT/ PT blocks will consist of a given number of toilet seats (as per requirements), toilet superstructure including the pan and water closet, and a substructure (either an on-site treatment system, or a connection to underground sewerage system) shared by all the toilet seats along with facilities for hand wash.
- 5.2.5.3 The norms for connection of the superstructure to an on-site system or connection to an underground sewerage system as defined in paragraph 5.1.3 above will apply here.
- 5.2.6 Operation & Maintenance
- There should be a digital system for capturing user feedback on a regular basis, multiple times per day, for each CT/ PT, with each feedback tagged to a unique user ID. Additionally, the Swachhata App may be used to provide feedback/register complaints regarding poorly maintained or non-functional CT/ PTs.
- 5.2.7 Fund Release Mechanism for CT/ PT/ Urinals (as mentioned in section 4.5.4)

5.2.7.1 Central government funds for the construction of CT/ PT seats & Urinals will be in the following form:

- 90% for ULBs in NE/ Himalayan States,
- 100% for UTs without legislature,
- 80% for UTs with legislature,
- 25% for 10 lakh plus ULBs,
- 33% for ULBs with 1 lakh to 10 lakh population (both included),
- 50% for ULBs with less than 1 lakh population

5.2.7.2 The unit cost of CTs/ PTs will be calculated at ₹1,50,000 per seat, and at ₹2,50,000 per seat for aspirational PTs, while base unit cost of Urinals will be calculated at ₹32,000 per seat wherein the VGF/ Grant will be as per the proportions given in paragraph 5.2.5.1 above. ULBs may also provide mobile toilets or eco-friendly toilets for use as CT/ PTs.

5.2.7.3 The **1st instalment** of 40% of allotted Central share from MoHUA will be released to the State/ UT provided the entry conditions specified in Section 4.2, and following additional conditions are satisfied:

- *City Sanitation Action plans (CSAP) Part 1 (approved by SLTC) along with gap analysis;*
- *ULB to upload their latest progress data on the MIS portal*
- *declaration from Municipal*

Commissioner/ EO of ULB that all existing CTs/ PTs & Urinals in the ULB are fully functional, with provision for water;

- *SLTC approved & complete proposals for a city (based on gap analysis), along with O&M plans for at least 5 years for maintaining functionality of CT/ PT;*
- *ULB has provided for encumbrance free land for construction of the CT/ PT complexes and Urinals.*

5.2.7.4 The **2nd instalment** of 60% of allotted Central share from MoHUA will be released to the State/ UT for a ULB provided the following conditions are satisfied:

- *Documentary evidence of 30% completion of construction target;*
- *UC for 75% of first instalment fund released;*
- *State has expended 75% of its allotted share;*
- *City has been certified as ODF+ (or above) at least once;*

SOLID WASTE MANAGEMENT

Sets out the overall approach to be taken by ULBs to put in place systems and processes to ensure that Urban India becomes Garbage Free.

6.1 Municipal Solid Waste and its management

Approximately 1,32,000 Metric Tonnes of MSW is generated from all urban areas of the country, which translates to about

300-550 grams per person per day. The waste generation is higher in larger cities and lower in smaller cities. The general trend of per capita waste generation is as follows:

S. No.	ULB Population Class	Typical Per Capita Waste Generation (in grams)
1.	>10 Lakh	550
2.	1 to 10 Lakh	450
3.	< 1 Lakh	300



6.1.1 Components of MSW Management: of various components of Solid Waste management systems:
The table below gives a tabular depiction

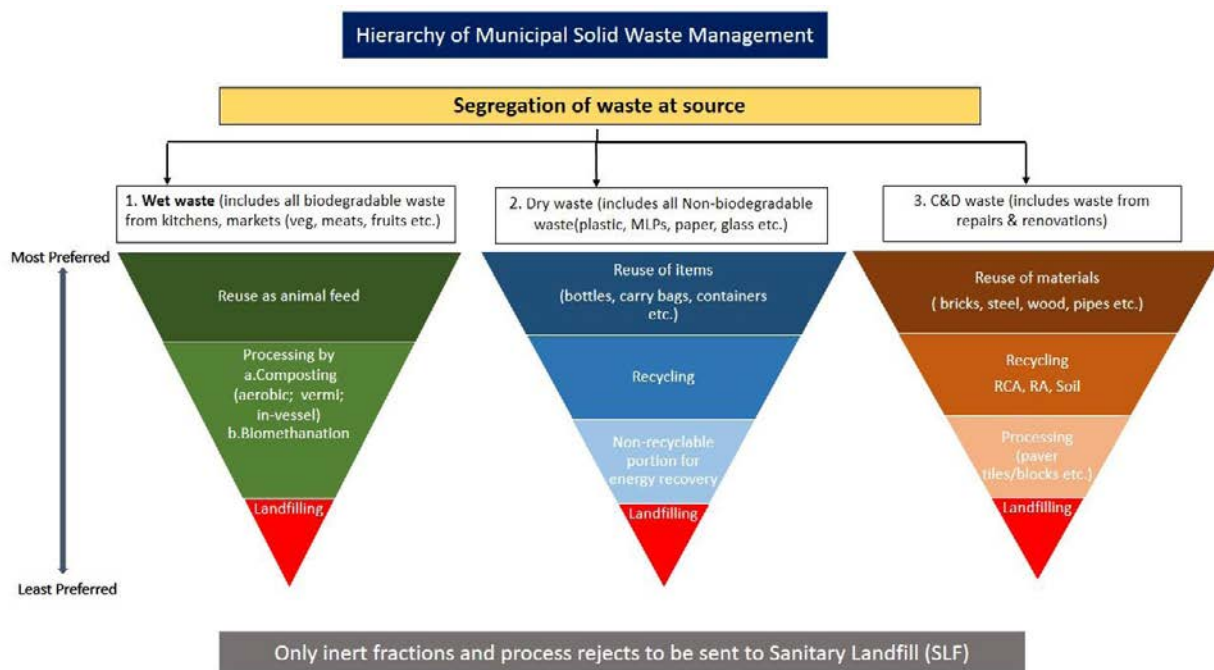
#	Components	Description
1	Source Segregation	Source Segregation of waste at the place of its generation in following categories is fundamental to MSWM: • Biodegradable wastes (wet waste - food waste, fruits & vegetables and parts thereof, meats, etc.), • Non-biodegradable wastes (dry waste - plastics, paper, cardboard, rags, glass, metal, wood and inert waste, etc.) • Sanitary waste and disposables thereof • Domestic hazardous wastes (such as aerosol cans, paint material, discarded medical supplies etc.) • Construction & Demolition waste • Generators of E-waste (including fluorescent and mercury containing bulbs & lamps) shall not mix e-waste with any other waste but deposit the same at e-waste collection centre
2	Door to Door Collection	Collection of solid waste from the door step of households, apartments, housing societies, shops, commercial establishments, offices, institutional or any other non-residential premises, including collection of such waste from entry gate or a designated location on the ground floor in a housing society, multi storied building or apartments, large residential, commercial or institutional complex or premises;
3	Separate transportation	Transportation of the segregated waste collected from source premises in specially designed, partitioned and covered transport vehicles, to the respective processing facilities.
4	Waste Processing	Processing of different fractions of MSW i.e. dry, wet, C&D and plastic as per Solid Waste Management Rules 2016. Processing is to be done differently for different categories of waste.

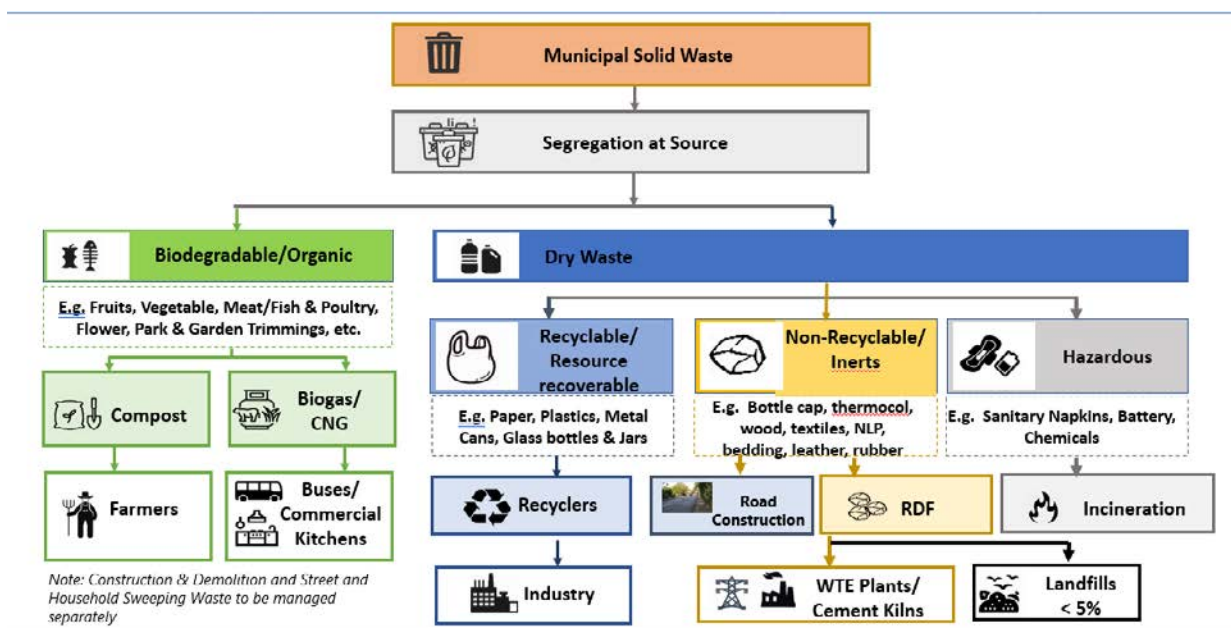
#	Components	Description
4(i)	Wet Waste	1. Home / Family sized Decentralized Composting Community /larger Decentralized (Less than 5 TPD) composting facilities 2. Centralized composting facilities (More than 5 TPD) 3. Bio-methanation - most suited for segregated wet waste like food waste from hotels/restaurants, and waste from dairy, vegetable market, meat/fish markets, mela waste etc.
4(ii)	Dry Waste	• Material Recovery Facility (MRF) is a facility where non-compostable solid waste can be temporarily stored and processed by authorized agencies for further segregation, sorting and recovery of recyclables/non-recyclables/inert such as segregation of plastic, glass, metal, paper, clothes etc. The recyclable fraction like plastics and metals are to be sent to authorized recyclers. • The non-recyclable/ combustible waste is to be sent to Waste to Energy plant/ Cement Kilns as Refuse Derived Fuel (RDF). 1. Incinerators: Sanitary napkins and Diapers are to be separated, specially marked and sent to a bio-medical waste/ waste to electricity plant for incineration. 2. Waste to Electricity plants: The combustible fraction of waste out of MRF/ Processing Facilities which is non-recyclable and has calorific value of 1,500 Kcal per kg and above can be used in waste to electricity plants.

#	Components	Description
4(iii)	Sanitary Landfill	Only the inert waste (mostly from street sweeping) and process rejects (in no case should this exceed 20% of total waste) which are not suitable for any of the above dry and wet waste treatment processes can be sent to sanitary landfills. It is recommended that SLFs are set up as separate business entities levying tipping/ gate fee as per the quantity and quality of waste received at the facility. Free use of SLF / LF may not be allowed, to increase the processing & recycling efficiency by the ULBs and its contractors.
4(iv)	C&D Waste	Construction & Demolition (C&D) waste is generated whenever construction/ demolition activity takes place such as building roads, bridges, highways, flyovers, subway and redevelopment of old structures. It consists mostly of inert, non-biodegradable material such as concrete, soil, steel, wood & plastics, bricks & mortar etc. C&D waste is sorted into different streams and sent to C&D waste processing plant.
5	Bulk Waste Generators	All Bulk waste generators have to manage their own wet waste and also make own arrangements for dry waste management.
6	User Fee	Suitable User Fee and relevant penalty provision needs to be notified by all ULBs as per Rule 15 (ze) (zf) of SWM Rules 2016 on the lines of advisory circulated by MoHUA.

6.1.2 Hierarchy and Process Flow of Municipal Solid Waste Management:

The basic principles involved in scientific solid waste management are given below which is called the Hierarchy of Integrated Solid Waste Management (ISWM).





6.2 General Principles for Designing of Waste Processing Facilities:

6.2.1 The composition of Municipal Solid Waste in India is as follows:

- *Organic / compostable fraction: 40 – 60%;*
- *Recyclable/ Resource Recoverable fraction: 20 – 30%;*
- *Non-Recyclable/ Combustible (RDF): 10 – 20%;*
- *Construction & Demolition (C&D) waste & unusable combustible: 5 – 15%.*

6.2.2 City Solid Waste Action Plan (CSWAP):

The vision of SBM 2.0 for scientific MSWM is that cities will ensure segregation of waste at source,

process waste in segregated fractions, recover resources and recycle to the maximum extent and minimize landfilling to 20% or less (including reject material coming out of processing). Cities must be seen to be clean 360°, duly remediating the legacy dumpsites. Further, Cities with non-conforming air quality need to replace the common manual street sweeping with air quality friendly mechanical sweeping and process the C&D wastes as well.

- 6.2.2.1 As a first step in fulfilling the vision, ULBs will prepare the CSWAP duly identifying the projected waste generation, segregation as wet and dry waste, the available processing capacity and the gap thereof. The CSWAP should also capture the gaps in dumpsite

remediation, mechanical sweeping and C&D waste processing facilities. Funds will be available for addressing the assessed gaps.

6.2.2.2 Cluster of ULBs can also be considered for creation of common infrastructure, keeping in mind the techno-commercial viability. For ULBs with population of more than 3 lakh (including ULB clusters), it is recommended that the wet waste will be processed using Bio-methanation, to produce biogas/bio-CNG for higher economic returns.

6.2.3 CSWAP will identify sanitary landfills (SLFs) which shall be set up preferably on cluster model. In order to ensure economies of scale and operational efficiency, State/ UTs may encourage creation of common infrastructure to cater to a group of small ULBs and their surrounding rural areas (in convergence with SBM-Grameen), including shared O&M of the infrastructure. In this SLF matter, the “one-district-one-operator” approach may also be considered.

6.3 The templates of CSWAP for various funding components of SWM is at Annex 2. The targeted outcomes of scientific MSWM will also be brought out in the CSWAP such as:

- timelines for implementation of required infrastructure
- timelines for achieving stages of

Star Rating under GFC protocol. A minimum 3 Star Rating will be achieved before the end of mission.

6.4 As achieving the mandatory GFC 3 Star Rating is linked to the creation of required infrastructure identified in the CSWAP, Cities and States /UTs need to examine strategic implementation plans. Bottlenecks such as land and environmental clearances need to be taken up in parallel with administrative and financial approvals so that the grounding of project works is not delayed. States/ UTs may develop a matrix of implementation issues for all their ULBs and select ULBs for their annual Action Plans which will mature to immediate implementation.

6.5 SBM 2.0 interventions in MSWM envision discrete project categories such as (i) MSW processing plants (ii) Legacy Dumpsites Remediation (iii) C&D Waste Processing plants (iv) Mechanical Sweepers and (v) SLFs which can be implemented simultaneously as independent projects, and also have vastly different implementation characteristics and different sets of vendors/contractors. Cities and States/ UTs need to link such different implementation factors into their Annual Action Plans. Considering these factors, the State / UT SBM Urban Mission

- Directorates are advised to prepare immediately ULB-wise CSWAPs and the corresponding implementation schedules.
- 6.6 Cities and States/ UTs can also develop implementation strategies responsive to the annual Swachh Survekshan to improve their rankings therein.
- 6.6.1 CSWAPs prepared duly incorporating the planned phasing of different modules will be the input for State/ UT Annual Action Plan and will be part of the proposal taken to SHPC for approval. State SBM Urban Mission Directorate will combine all CSWAPs and furnish the State Action Plan for achieving the mandatory 3 Star Rating of all ULBs in the State, spread across the 5 years of Mission. The State/ UT Annual Action Plans covering all ULBs will be approved in the first three years of mission, leaving a cushion of two years for implementation of outputs and achieving the mandated outcomes.
- 6.6.2 CSWAPs will also identify sanitary landfills (SLFs) which shall be set up preferably on cluster model. In order to ensure economies of scale and operational efficiency, State/ UTs may encourage creation of common infrastructure to cater to a group of small ULBs and their surrounding rural areas (in convergence with SBM-Grameen), including shared O&M of the infrastructure. In this matter, the “one-district-one-operator” approach may also be considered. Relevant CSWAPs will be part of the proposal taken to SLTC for approval. State SBM Mission Directorate will combine all CSWAPs and furnish the timeline for achieving the mandatory 3 Star Rating of all ULBs in the State, spread across the 5 years of Mission.
- 6.6.3 ULBs are to prepare DPRs for Solid Waste Management in consultation with State Governments, in compliance with MoHUA checklist (**Annex 6**). Smaller cities can be formed into clusters to become viable entities for economies of scale and to attract private investment. State Governments may handhold ULBs in preparing DPRs for SWM by engaging agencies/ institutions for this purpose. The DPRs should be ideally bankable, having a viable financial model. DPRs should be aligned with the guiding principles, SWM Rules 2016, CPHEEO Manuals and MoHUA Advisories.
- 6.6.4 Co-processing - Cement plant / RDF: For RDF produced from non-recyclable fraction of dry waste, the first priority should be given to using it in nearby cement plants or other similar industries (as alternative fuel).

6.6.5 It is stressed that waste to electricity projects are financially and operationally viable only with assured input of minimum 150 – 200 tonnes per day (TPD) of non-recyclable, high-calorific value segregated dry waste (RDF). Ideally, only ULBs with population of 10 lakhs and above (individually or in cluster) may opt for waste to electricity projects. While approving Waste to Electricity projects, ULBs are advised to ensure adequate quantity of waste/ RDF of specified calorific value. In this respect, ULBs may refer to the waste processing flowchart given under para 6.1.2 for recommended processing options for various waste fractions.

6.7 State Government can engage qualified institutes/ organizations for the technical and economic appraisal for project DPRs recommended by ULBs.

6.8 Governance and Administrative provisions:

- i. While considering projects under SWM, it will be ensured that there is no duplication in terms of funding under any other scheme or programme.
- ii. States/ UTs shall be free to choose the technology for SWM projects. MoHUA would be technology-agnostic as far as project funding is concerned, subject to overall allocation for State/ UT.

iii. MoHUA shall, from time to time, bring to the notice of the States/UTs, through Advisories and Manuals, and other consultative mechanisms, various technology options available in the field.

iv. States/ UTs and their ULBs are recommended to use the GeM (government e-market place) portal for procuring waste management equipment.

v. The State Governments are recommended to put in place a single-window clearance system for SWM projects for ease of setting-up of facilities in timely manner and encourage private sector participation.

6.9 Funding mechanism for the SWM projects (as mentioned in section 4.5.4):

The GoI contribution for setting up MRFs, transfer stations, waste processing plants (including C& D waste processing plants), procurement of mechanized sweeping equipment and bio-mining of legacy dumpsites shall be as follows:

- 90% for ULBs in NE/ Himalayan States
- 100% for ULBs in UTs without legislature
- 80% for ULBs in UTs with

legislature

- 25% for other 10 lakh plus ULBs
- 33% for other ULBs with 1 lakh to 10 lakh population (both included)
- 50% for other ULBs with less than 1 lakh population

6.9.1 Components that can be funded include the following (as given in section 4.5.4):

i. In all statutory towns:

- *Setting up of waste processing facilities such as MRFs, transfer stations, composting plants, bio methanation plants, RDF processing facilities (for ULBs with 5 lakh population and above), plastic waste processing facilities, waste to electricity, sanitary landfill, etc.*
- *Remediation and land recovery of legacy dumpsites*

ii. In 154 ULBs (NCAP cities +> 5 lakh population ULBs as per list given in **Annex 1**)

- *Procuring mechanized sweeping equipment.*
- *Setting up processing facilities for effective management of Construction and*

Demolition (C&D) waste.

6.9.2 The **1st instalment of 40%** of allotted Central share from MoHUA will be released to the State, provided the entry conditions specified in Section 4.2, and following additional conditions are satisfied:

- *SLTC approved CSWAP for respective modules (viz. C&D, Mech. Sweeping,*

Legacy dumpsites, MRF+waste processing) and action plans for respective component submitted;

- *Receipt of SLTC approved proposals for a city along with O&M arrangements for at least 5 years, and its funding arrangements;*
- *Land identified & earmarked for setting up SWM facility/ facilities.*

6.9.3 The **2nd instalment of 40%** of allotted Central share from MoHUA will be released to the State, provided the following conditions are satisfied:

- *UC submitted for 75% expenditure of Central and State share of first instalment;*
- *Physical progress of at least 25% should have been completed in each of the sub components*

(such as processing plants, MRFs, SLFs, legacy dumpsite remediation, etc.)

- *Receipt of documentary evidence of completion of construction of SWM facilities and their functionality with funds received under SBM-U earlier.*

6.9.4 The 3rd **instalment of 20%** of allotted Central share from MoHUA will be released to the State, provided the following conditions are satisfied:

- *UC submitted for 75% expenditure of Central and State share of second instalment*
- *City is at least 1-star certified as per Star Rating Protocol for Garbage Free Cities, and is segregating at least 60% of its municipal solid waste at source;*
- *Physical progress of at least 60% should have been completed in each of the sub components (such as processing plants, MRFs, SLFs, legacy dumpsite remediation, etc.)*

- Safe, quantified and scientific disposal of inert waste and processing rejects to Scientific Landfills;
- Legacy waste in dumpsites is remediated;
- C&D Waste management in all 154 non-attainment cities under Nation Clean Air Program (NCAP) and remaining cities >5 lakh population is achieved;
- All cities achieve at least 3-Star Garbage Free rating.

6.10 **Outcomes (in all statutory towns):**

- 100% Door to Door collection;
- 100% source segregation of MSW;
- 100% waste processing (in separate fractions of Wet , Dry, C&D waste);

USED WATER MANAGEMENT

Sets out the overall approach to be taken by ULBs to put in place systems and processes to ensure that no untreated used water is discharged into water bodies, along with reuse of treated used water.

7.1 Used water management

In the current scenario in India, only 40% of urban population have access to sewerage system, while the remaining 60% is dependent on unregulated on-site sanitation systems.

In the first phase of SBM (U), there were no funds earmarked for waste water management for towns. Based on learnings from the seven years, used water management for towns less than 1 lakh population has been newly added as a component under Swachh Bharat Mission-Urban 2.0 and Govt of India's AMRUT 2.0

Mission has funds earmarked for used water treatment including Faecal Sludge management, for cities with more than 1 lakh population.

Some basic definitions & terms used under this chapter are as given below for ready reference.

7.2 Components of Used Water Management Systems

The table below gives a tabular depiction of various components of domestic used water management systems:

S.No.	Components	Description
1.	Sewage (Used Water)	Used Water comprises of the following two components: Grey Water from kitchens, bathrooms, wash basins etc. Black Water from toilets & urinals. These may sometimes be mixed with other municipal flows such as surface water and storm water.
2.	Generation of Domestic Used Water	Generation of Domestic Used water: GOI/States/UTs endeavor to provide 135 Litres per capita per day (LPCD) of potable water through various Missions/ programmes. Of this, 80% (108 LPCD) is expected to be generated as used water.
3.	Management of Used Water	Management of Used Water includes collection, conveyance, treatment & recycling/ disposal of all the above stated flows.

S.No.	Components	Description
4.	Collection	Grey water from kitchens, bathrooms, wash basins etc. and black water from toilets shall be collected and let into the nearby sewer (i.e off-site sanitation system) or into the onsite sanitation systems (septic tanks with soak pits)
5.	Conveyance	
5.1.	Off-site System	Offsite System consists of sewage conveyance and treatment at STP
5.1.1	<i>Interception & Diversion drains</i>	This is a system of intercepting & collecting sewage from municipal drains (where sewer network is absent) and to divert it to STP for treatment.
5.1.2	<i>Sewer network</i>	Sewer network consists of continuous pipes laid underground, mostly along roads, to collect sewage from households and other establishments. Central portion of city area often characterized by high population density is designated as Core Sanitation Zone (CSZ) which is suitable/ viable for laying of sewer network. The outskirts of a city often characterized by sparse population density is designated as fringe areas. These areas are often based on on-site sanitation system, as laying of sewer network is often unviable.
5.2.	<i>On-site System</i>	Onsite treatment system (OTS) is a privately owned and maintained sewage disposal system (other than municipal body) that treats used water and produces partially treated water. However, some packaged onsite sewage treatment systems are also available.
5.2.1	<i>Septage (from septic tanks with soak-pits)</i>	In on-site systems, the fecal sludge and black water is accumulated in septic tank and soak pit, situated within the premises. Periodically, specialized collection vehicles will be used for desludging the septic tanks and transporting the same for treatment.
6.	Treatment	Sewage is treated in STP and faecal sludge can be treated either at STP or STP-cum-FSTP or standalone FSTP. Further, the treatment may be centralized or decentralized treatment.

S.No.	Components	Description
6.1.	STP	Sewage Treatment Plants (STP) are used for treatment of used water coming out from Domestic, Commercial, institutional establishments etc.
6.2.	Faecal Septage Treatment Plants (FSTPs)	Faecal Septage Treatment Plants (FSTPs) are used for treatment of faecal septage being periodically removed from septic tanks of domestic, commercial, institutional establishments etc. to maintain their efficiency.
6.3.	STP-cum-FSTP	Septage can be economically treated at STPs with certain minor modifications saving CAPEX, OPEX & land requirement.
7.	Recycle/ Disposal	The treated used water may be used by ULB either for self-consumption, or sold, for the following purposes: 1. Non-potable purposes like flushing toilets, gardening etc. 2. Agricultural purposes 3. Horticulture purposes 4. Industrial purposes 5. Municipal purposes like dust mitigation, road washing, construction activity, etc. 6. Water body rejuvenation It is targeted to recycle and reuse at least 20% of treated used water for above mentioned purposes.
8.	User Fees	Suitable user fees matching the cost of sewage management to be levied ensuring long term sustainability and assured service delivery. Levied user charges should be sufficient to recover fully/ partial O&M cost for running the facility uninterruptedly. Along with user charges, suitable penalty provisions to be notified in ULB bylaws.

7.3 Used water as new component under SBM-U 2.0

SBM-U 2.0 provides funds to address the issue of used water management including the safe containment, transportation and disposal of

faecal sludge and septage from toilets, for cities with population of less than 1 lakh. It will help to holistically manage approximately 13,000 MLD of sewage generated from the notified Class II - VI towns of the country, as shown in Table 7.1 below:

Table 7.1: Class of cities, population, sewage generation

Class of Cities based on Population		No of Cities*	Total Population @2011 Census [in crore]	STP capacity reqd (in MLD) (after adjusting for 23% decadal growth of population)	Average capacity (in MLD)
Class II	50,000-99,999	535	3.65	4,498	5.5
Class III	20,000-49,999	1,439	4.46	5,494	3.5
Class IV	10,000-19,999	1,233	1.2	2,826	.70
Class V	5,000-9,999	541	.43		
Class VI	<5,000	153	.05		
Total		3,901	10.42	12,818 (approx. 13,000)	

*- For purpose of estimation, Census 2011 figures are considered with suitable population projections. However, all Statutory towns will get funding support from SBM (U).

7.4 Objectives

Inclusion of used water management component under SBM-U 2.0 will help to achieve following two objectives:

i. all used water is safely collected, treated and

reused to feasible extent and no untreated used water is discharged into water bodies or the open environment;

ii. all faecal matter and septage is properly collected, treated and by-products reused.

7.5 Focus Areas under used water management

To achieve the objective of treating used water before discharge into water body/ overland, the following will be the major areas of focus under SBM 2.0, and will be eligible for Central share of funding:

- i. setting up of Sewage Treatment Plants (STPs)/ STP-cum-FSTP;
- ii. laying Interception and Diversion (I&D) structures including provision of pumping stations and pumping main/gravity main upto STP;
- iii. procuring adequate numbers of septic tank desludging equipments;
- iv. deploying Digital (IT enabled) tools for real time monitoring of efficiency parameters during the operational phase of STPs and allied equipments.

7.6 Project components eligible for funding

7.6.1 Used Water Project Components eligible for central funding

The project components to be funded by GOI is given below.

1. **Sewage Treatment Plant:** State/ULB will be free to adopt any proven technology, as brought out in the CPHEEO Manual/MoHUA Advisories from time to time. However, for smaller ULBs, nature-based technologies in suitable combinations may be adopted. Relevant components for integration of septage treatment at STP such as desludging ramp, screens, solid/ liquid separation chamber,

pumping etc, will be admissible components for Central funding as part of STP.

2. **Interception and diversion drains/ outfall sewer/ trunk main sewer:** Interception and diversion drain component is eligible for funding for conveying municipal dry weather flow upto STP/ STP cum FSTP through an outfall sewer/ trunk sewer from existing/ upcoming sewer network leading to the Sewage treatment facility.

3. Sewer & Septic tank cleaning machines

Desludging/ cleaning equipments will be eligible for funding provided that SLTC confirms that (a) the Private Sanitation Service Operators (PSSOs) are unlikely to be available to undertake this task at the particular ULB and (b) the State/ ULB will be engaging operators on contract to run them.

7.6.2 Used Water project components to be fully funded by States/ULBs

1. **Sewer Network-** The entire cost of sewer network being set up in the towns to be borne by the State/ UT & ULB including those of tied 15th Finance Commission(FC) Grants. The arrangements in terms of funds and timelines need to be delineated and explained to SLTC while sanctioning of projects and also communicated to the National Mission Directorate, at the time of claiming central share of funds for STPs/ STP cum FSTP and I&D infrastructure in any town. It is expected that each ULB will use 15th FC tied Grants/ SFC Grants and their own resources to

suitably convey sewage from the households through sewer networks to ensure robust and environmentally conscious sanitation approach. As an interim arrangement due to fund constraints or any other reasons existing and improved municipal pucca drains could be used as means of conveyance. Use of tied 15th FC grants towards development of sewage conveyance network would be monitored by Ministry in accordance with 15th FC guidelines.

Further, to promote planned urbanization with requisite basic services, it is advised that in new green field developments in and around towns, provision of sewerage network along with decentralized sewage treatment facilities should be ensured. This will avoid construction of individual septic tanks and soak pits.

2. Strengthening of Municipal drains

As an interim arrangement, till sewers are laid in town, strengthening of drainage networks is to be taken up and intercepted into existing/upcoming sewer network, wherever feasible, or brought to I & D point from where, sewage/sullage can be conveyed to STP/ FSTP cum STP.

As in the case of sewer network, the arrangements being contemplated in terms of funds including tied 15th FC Grants and timelines need to be delineated and explained to SLTC, while sanctioning of projects, and also communicated to the National Mission Directorate, at the time of submission of funds request towards STPs and I&D infrastructure. As explained above, in this case also funds

mobilized out of 15th FC tied Grants/ SFC Grants and State/ULB's own resources would be monitored in adherence to 15th FC guidelines.

7.7 Mission Governance at State level

7.7.1 Sanctioning of Proposals and Mission Monitoring

While administering, approving and monitoring various related proposals of Used water management, SLTC to ensure the following and place before SHPC for approval:

i) Annual progress plan for achieving Mission targets in respect of ODF++ and Water+.

ii) Sanctioning of City Sanitation Action plans (CSAP) part 2, including year-wise overall action plan for its approval.

iii) Seamless project implementation: All Used water management projects are planned in an integrated manner, where Interception & Diversion of drains, STP and/ or STP- cum- FSTP construction and at least 5-years O&M of the constructed infrastructure are the responsibility of the same vendor/ operator and to be awarded in a single package.

iv) Ensuring that projects are planned in a manner that the envisioned Mission objectives of “no untreated used water discharged into water bodies” are met in totality.

v) For robust O & M of assets created, the “one-district-one-operator” approach may also be explored, if other wise found suitable to State/UT.

vi) Cluster/ clubbing of ULBs:

In order to ensure economies of scale and operational efficiency, State/ UTs may encourage creation of common infrastructure to cater to a group of small nearby ULBs and their surrounding rural areas (in convergence with SBM-Grameen), including shared O&M of the infrastructure, where found feasible.

vii) Recycle & Reuse: The projects must provide for recycle and reuse of treated used water. The recycle and reuse projects should be formulated in such a way so as to be financially sustainable.

viii) Land availability: SLTC will ensure timely land availability to take up implementation of projects particularly STPs.

ix) Use of IT enabled Tools/ Computer software: States / ULBs are encouraged to use IT-enabled tools/ computer software for design of various project components, its cost estimation & overall DPR preparation, to the extent feasible.

x) Policy and leveraging funds from various sources, private sector, capacity building etc.

xi) Constitution of State level Technical Committee(SLTC) under Principal Secretary (UD) for technical appraisal and sanctioning of projects submitted after detailed examination by engaged Technical Agency/Institutes.

xii) The DPRs submitted by ULBs to state Mission directorate will be required to be systematically scrutinized by technical institutes/ agencies, engaged for the purpose,

from techno-economic angle and submitted to SLTC for technical sanction before submitting the same to SHPC for Financial & Administrative Sanction as outlined in Chapter 3.

7.8 Mission Implementation Strategy

7.8.1 City Sanitation Action Plan (CSAP) – part 2

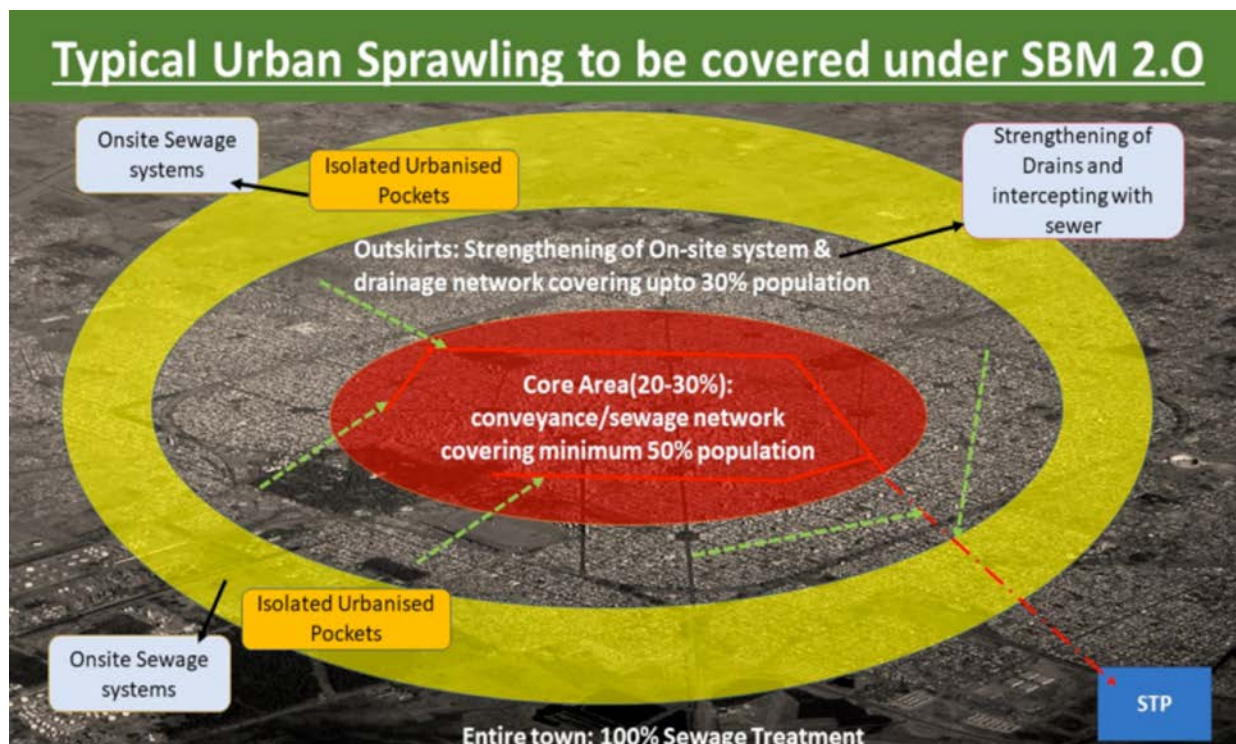
As a first step, ULB will be required to prepare the CSAP Part 2. The CSAP Part 2 is expected to contain information on sewage management, specifically details of existing sewer networks, STPs, STP cum FSTPs, FSTPs and details of main municipal drains, etc, along with gap analysis in respective infrastructure and proposed projects along with block cost estimate, as per standard template provided at **Annex 3B.**

Gap Analysis: CSAP Part 2 must contain a gap analysis in sewage management and prospective projects to be taken up under SBM-U 2.0 along with its prioritization. The tentative block cost estimate for components like STP, sewer networks, pumping stations and I&D drains etc. are to be prepared with suitable zoning.

7.8.2 Broad DPR preparation approach

Broad DPR preparation approach is outlined below for two possible field scenarios:

A) Sound foundation for sanitation in ULBs using sewer network based robust used water management approach followed by Sewage treatment facility.



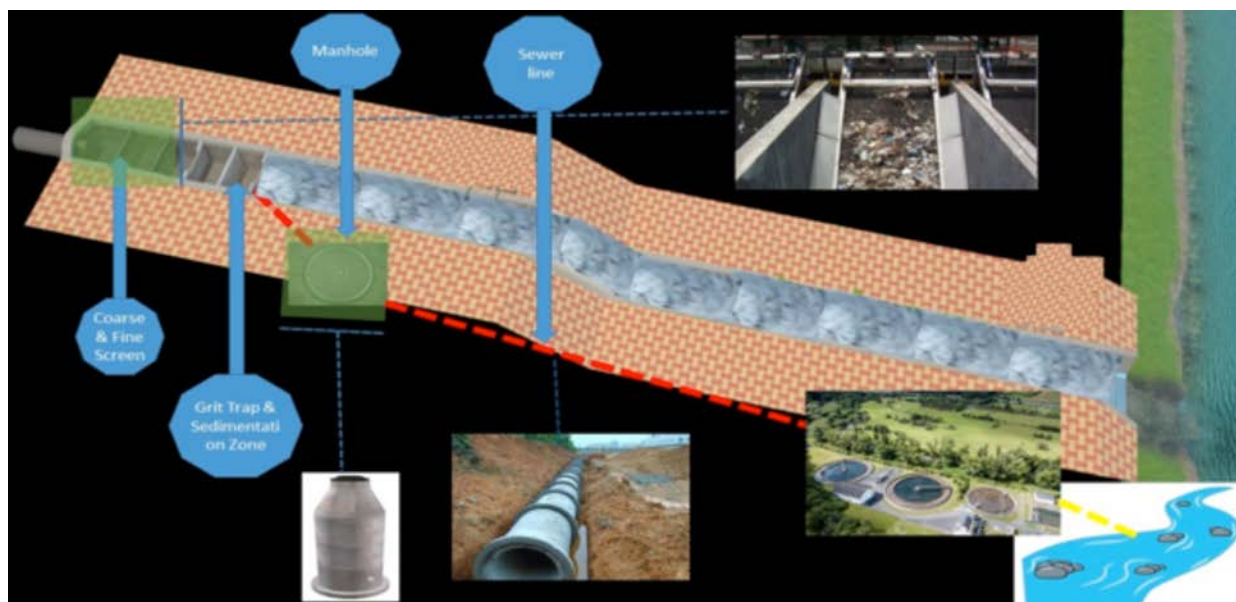
B) Where, States/ULBs, instead decides to adopt, municipal pucca drains based used water conveyance system, as interim arrangement, followed by I&D and Used Water and Septage treatment facility.

7.8.3 DPR Preparation approach adopting sewer network & STP

State/ ULB will be required to prepare DPR as identified in CSAP, following the CPHEEO Manual on Sewerage & Sewage Treatment Systems, 2013/ Advisories published by Ministry from time to time. For guidance on the type of Infrastructure [sewerage, drainage, I&D and STP etc.] to be considered while preparing DPRs for various class of towns, the schematic layout may be considered:

1. **Sewer Network in Core Sanitation Zone:** ULBs to identify its “**Core Sanitation Zone (CSZ)**”, defined as a zone which has at least 50% of the town’s current population settled over an area comprising about 20-30% of the town’s spread (please refer diagram given above). The CSZ will be provided with a sewer network to connect it directly to the STP.

The cost of the CSZ sewer network will be borne entirely by the State/ ULB from 15th FC Grants/ SFC Grants/ their own funds etc. States/ UTs are expected to encourage the ULBs to identify any suitable area in the city to provide with a sewer network. City can expand network coverage based on necessity and availability of resources over the time.



For upcoming new green field developments in and around towns, the provision of sewerage network along with decentralized sewage treatment facilities should be factored in planning.

2. Intercepting used water from open drains to Sewer network:

State is also required to **strengthen existing open drains** carrying sullage and connect the same to the sewer network, wherever feasible, after providing suitable I&D structures like coarse screen, grit chamber, fine screen and settling basin etc. before intercepting into sewer network.

3. Approach for Fringe Areas

- For inhabitants residing in fringe areas outside the CSZ, the town authorities may work out economically judicious solutions, opting between continuing with onsite disposal

systems (septic tanks with soak pits) and providing localized community level sewage treatment plants for grey/ black water where feasible or conveying it to STP depending on economics. The septage from these households will continue to be safely hauled to a designated STP under professional arrangements.

- It is advised that the fringe areas may try to strengthen their onsite disposal arrangements by providing for soak pits where they are missing and forcing the septic tank effluent into the ground, adhering to design norms.

4. Provision for adequate Used Water Treatment Facility in each ULB:

It may be noted that each ULB needs to plan for adequate used water (grey water + black water) treatment facility with provision to treat septage as well. Creating adequate used water treatment facility is an important component and aligned

with mission objective to ensure that used water is discharged to water body or over land only after proper treatment ensuring compliance to environmental discharge standards. This is necessary to comply with Legal and Regulatory requirements under Hon'ble NGT O.A no. 673/2018 and Hon'ble Supreme court WP(C) 375.2012. as well as WATER (Prevention and Control of Pollution) Act 1974.

Accordingly, all towns will need to prepare a DPR containing the provision of minimum one STP (for 70% of current population).

5. STP Technology:

As regards selection of Used water treatment technology, it will be open to ULB/State Government to select **any proven technology** as brought out in the CPHEEO Manual/Advisories from time to time. In case States come across any other technology not listed in CPHEEO Manual/Advisories, the same should be referred to CPHEEO for evaluation and inclusion in the Advisories. State Governments are encouraged to select nature-based sewage treatment technologies (alone or in combination of two to attend desired treated effluent quality), where feasible, to economise Capex & Opex.

In this context, it may be mentioned that global experiences have established STPs to be the most effective method for treating used water (grey water and black water). Hence, States/UTs may take informed decisions regarding technology to be used for treating their used

water so that the Mission's objective of "no untreated used water polluting water bodies" is realized.

7.8.4 Municipal pucca drains based used water conveyance system, followed by I&D and Used Water Treatment Facility

i. Urban Drains of various sizes comprising tertiary, secondary and primary tributaries (main drains) discharge sewage into natural water bodies. During dry weather (when it is not raining), almost the entire flow in urban drains consists of

- raw sewage from toilets not connected to a sanitary disposal system,
- partially treated effluent from existing septic tanks, and
- other onsite management systems where soak pits are not provided or are blocked.

ii. As an interim arrangement, till sewers are laid or in the periphery outside core area of town where providing sewerage system is uneconomical, strengthening of drainage networks can be taken up by ULBs and intercepted in the sewer network wherever feasible, so as to efficiently convey sewage/sullage to STP in the town.

iii. Sullage Diversion (I&D) Plan leading to Used Water Treatment Facility

All tertiary and secondary drains will be provided with bar screens to trap floating debris, as per the following norms:

- Drain upto 1 metre width cross section – at

every 1000 metre

- Drain above 1 metre width cross section- as per the local engineer's assessment.
- On primary drain, before outfall into a water body, there should be at least two bar screens within 2 km before discharge point into the water body.
- Proper periodic (daily) cleaning mechanism for drains to avoid overflowing in case of choking, especially by safai karmacharis.

iv. Repair & Maintenance of drains: ULBs will also need to repair all surface drains to maintain continuity so that the discharge is not dissipated through a breach or overflow.

The dry weather discharge flowing in the drains needs to be intercepted by ULB at suitable locations so that at least 50% of the current sewage generation in the town is collected and

conveyed to the Used Water Treatment Facility.

This criterion is a mandatory condition for sanctioning Used Water Treatment Facility for any ULB. Pumping arrangements are permitted, if absolutely necessary. However, gravity sewers are preferred.

7.8.5 Faecal sludge treatment approach

In the towns/ those parts of town not covered with sewer network, ULBs need to have in place adequate mechanism for **faecal sludge treatment**. The approach to treat the faecal sludge may follow the hierarchy/ order of priority given below:

- **Town with existing STP:** Wherever STP is available, faecal sludge is to be co-treated with sewage in STP by constructing septage unloading facility coupled with Solid liquid separator by way of retrofitting. Liquid so separated would be pumped at inlet of STP and



Figure a: STP-cum-FSTP to treat sewage and faecal sludge in the same facility

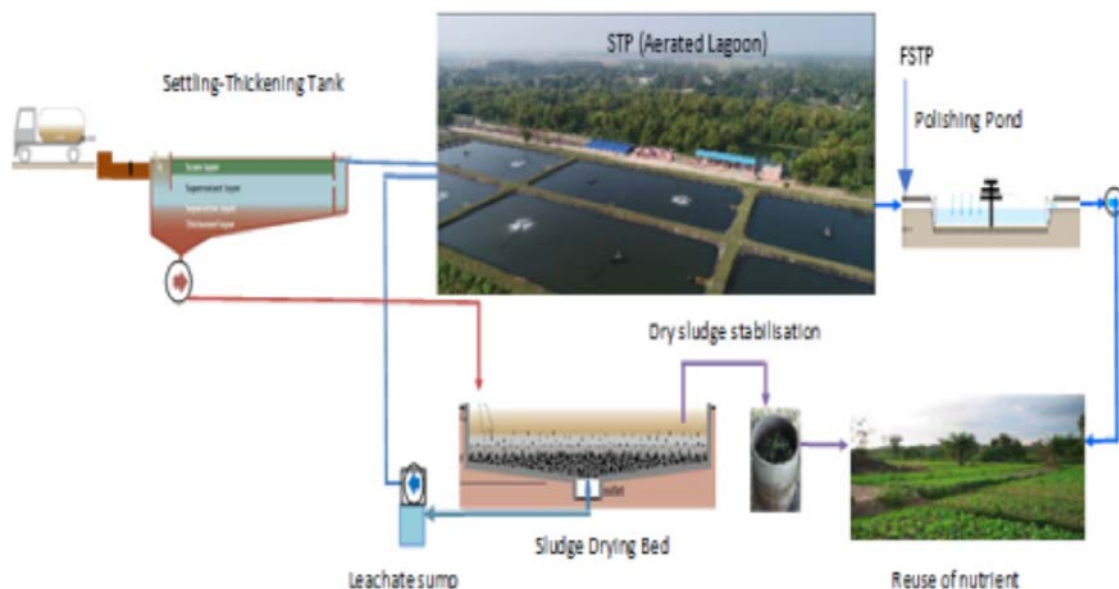


Figure b: Process Diagram of STP-cum-FSTP in the same facility

settled sludge can be put to sludge drying bed. If septage has low solid content ($< 3\%$), it can be even directly injected at inlet of STP after ensuring suitable ratio of dilution as detailed out in “On-site and Off- site sewage management systems” advisory brought out by MoHUA. It is explained in figures a and b above.

• **Town without STP:** In ULBs where no Used Water Treatment Facility is available, ULBs will need to ensure that Used water generated in its jurisdiction is properly collected, conveyed and treated to environmental discharge standards before its discharge into water body/ over land. While planning for new Used Water Treatment Facility, faecal sludge management may be factored in such a manner that it is co-treated in the facility itself as mentioned above. This will result in reduced Capex & Opex and would

also save precious land, thereby, promoting sustainability and improved service delivery. In newly notified smaller ULBs, where there is no STP and no FSTP, it is advised to plan and implement used water treatment facility with facility to co-treat fecal sludge. Further, till STP facility is created, fecal sludge can be transported to nearby STP having facility to co-treat fecal sludge to economise Capex & Opex.

• **Town with FSTP but without STP:** In towns having standalone FSTPs, although it provides facility to treat faecal sludge from septic tanks, desludged once in 3 years, it is not capable of treating Greywater from kitchens, bathrooms and washings etc, which is in huge quantity compared to septage and generated on daily basis. It also contains major share of pollution load generated from households/ commercial

establishments etc. In a majority of cases, septic tanks do not have soak pits and black water from septic tank finds its way to municipal drains subsequently, polluting water bodies. This comes out on continuous basis from septic tanks and there is no treatment available for it, under faecal septage treatment facility. In such ULBs, State will need to draw up a plan to collect grey water as well as black water from septic tanks and suitably collect and treat to meet environmental discharge standards before release into a water body or over land.

It also need to be ensured by States/ ULB that untreated used water (grey water and / or black water) is not discharged or allowed to percolate into ground water which has potential to pollute ground water and cause environmental degradation.

Where the existing FSTPs are available, the same can be utilized to treat septage from peri-urban area/ rural areas. However, since it is not designed to treat used water generated in the ULB area, separate used water collection and treatment infrastructure need to be created by each ULB to safely treat used water to the environmental discharge standards before its release in compliance with Hon'ble NGT O.A. no. 673 of 2018.

7.9 Recycle & Reuse

The treated used water may be used by ULB either for self-consumption, or sold, for the following purposes:

1. Non-potable purposes like flushing toilets,

gardening etc.

2. Agricultural purposes
3. Horticulture purposes
4. Industrial purposes
5. Municipal purposes like dust mitigation, road washing, construction activity, etc.

Efforts may be made to utilize as much used water as feasible, but not less than 20%. Circularity in used water has many advantages over conventional system of treating and discharging into water body or over land.

7.10 Fund release:

7.10.1 Funding Pattern

Central share for above mentioned components will be disbursed as per following cost sharing pattern:

- 90% for ULBs in NE/Himalayan States,
- 100% for UTs without legislature,
- 80% for UTs with legislature,
- 50% for ULBs with less than 1 lakh population

This will follow suitable ULB wise cost capping as mentioned in Annex- 10

7.10.2 Outcome-based fund release (as mentioned in section 4.5.4)

The Central government fund for used water management will be released in three (3) instalments with each instalment to be released based on achievement of specific milestones / outcomes as mentioned below:

7.10.2.1 The 1st instalment of 40% of allotted Central share from MoHUA will be released

to the State/ UT for a ULB provided the entry conditions specified in Section 4.2, and following additional conditions are satisfied:

- *Responsible Sanitation Authority (RSA) notified across the State/ UT at District level/ in big municipal corporations;*
- *Submission of City Sanitation Action plans (CSAP) part 2 (approved by SHPC) for sewage management along with gap analysis;*
- *Receipt of SLTC approved proposals for a city along with at least 5 years' O&M contract post commissioning, and its funding arrangements;*
- *Annual progress plan of State/UT of ODF++ and Water+ cities;*
- *Action plan for revamping all non-functional existing STPs/FSTPs in ULBs having less than 1 lakh population (if any- as recorded in the City MIS).*
- *ULB has provided for encumbrance free land for setting up STP/ STP-cum- FSTP.*

7.10.2.2 The **2nd instalment of 40%** of allotted Central share from MoHUA will be released to the State/ UT for a ULB provided the following conditions are satisfied:

- *Functional Sanitation Response Units (SRU) set up;*
- *UC submitted for 75% of first instalment of Central and State shares;*
- *Portion of O&M being recovered through user charges;*

- *City is certified ODF+ at least once;*
- *State will certify along with geo-tagged photos and other documentary evidence that:*

- Work has commenced for the drainage system development/ installation/ revamping duly completed (with geo-tagged photos and other documentary evidence);
- The Interception & Diversion drain & related conveyance system has reached 20% physical progress;
- The STP/FSTP (in case of co-treatment) sub-project has achieved at least 10% physical progress on ground.
- Existing STP/FSTPs are made functional to treat used water, at least to the level as per their original design.
- Work awarded for non-functional STPs/ FSTPs requiring major repairs/ rehabilitation.

7.10.2.3 The **3rd instalment of 20%** of allotted Central share from MoHUA will be released to the State/ UT for a ULB provided the following conditions are satisfied:

- UC submitted for 75% of second instalment of Central and State shares;
- The Interception & Diversion drain & related conveyance work has been completed to the extent of at least 80% of physical process;
- The STP sub-project work has been completed to the extent of atleast 60%;
- Non-functional STPs/FSTPs made functional.

It may be noted that proposals should be in compliance with checklist provided in **Annex 6**.

7.11 Expected Outcomes

The following outcomes are envisaged under SBM-U 2.0 for used water management:

- All statutory towns with < 1 lakh population will become ODF++ certified.
- 50% of all statutory towns with < 1 lakh population will become Water+ certified.

States/UTs would be required to develop road map to achieve and sustain above outcomes and progress would be monitored periodically.

IEC & BEHAVIOR CHANGE

Sets out the overall approach to be adopted to ensure awareness creation along with large scale citizen outreach to intensify ‘Jan Andolan’ and institutionalize swachh behavior and action , for achievement of “Garbage Free” cities, and sustaining the gains of urban sanitation

8.1 The IEC & Behaviour Change initiatives under SBM 2.0 will be based on the learning that the achievements of SBM-U in the last 7 years largely rest on people’s participation, made possible through systematic communication at multiple levels. The Jan Andolan created under SBM-Urban was triggered by the Hon’ble Prime Minister and managed to engage with nearly 20 crore urban citizens. With the momentum created by the SBM, citizens have realised that sanitation impacts their lives in so many ways that it needs to be everybody’s agenda. The scale of impact that behavioral choices around sanitation have on people’s lives and society at large makes the issue of sanitation both personal and social. Under SBM-U 2.0, this aspect will assume far greater criticality, and will need to become the soul of the Mission. Accordingly, IEC and BCC under SBM-U 2.0 will require a more intensified and focused approach to ensure participation and active engagement from each and every citizen and every stakeholder. In fact, people’s participation will be foundational to achieving the Mission’s vision of Garbage Free cities. The IEC and BCC strategy would thus have to be innovatively reformatted to cater to the Mission’s vision of Garbage Free cities in accordance with the

objectives under SBM-U 2.0.

8.2 IEC and BCC strategy:

8.2.1 MoHUA will disseminate a National Level Communication Strategy to be implemented at Central, State and ULB levels. This will be done in close consultation with States, other stakeholders, domain experts and after taking into account relevant studies of the past and present. Additionally, States and ULBs would also be advised to design their own communication strategy.

8.2.2 MoHUA will hold periodic consultations among States for mutual learning and exchange of best IEC practices.

8.2.3 Detailed studies will need to be taken up by States/ UTs to identify triggers for behavior change among communities, which would form the basis of their IEC and BCC strategy and initiatives to be undertaken.

8.2.4 ULBs would need to engage citizen volunteer (depending on the size of the ward), who will be the designated interpersonal communicator(s) to engage with each household in the ward on regular basis. The role of these

volunteers would be critical in bringing about and sustaining behaviour change at the ground level with respect to key sanitation and waste management practices. The volunteers could be engaged through community structures already working in the ward such as NULM, NUHM, ASHA, Anganwadis, Self-Help Groups (SHGs), Non-Governmental Organizations (NGOs), youth/ women's groups, Community-Based Organisations (CBOs), RWAs, and other similar bodies, or from among general citizens (e.g. teachers, senior citizens, retired personnel, etc) who have influence in the community/ ward.

8.2.5 The role of the citizen volunteer would be to sensitise households on how their role would be critical to make their cities Garbage Free, trigger among them a sense of intolerance to garbage, alert them to the benefits of a clean surrounding and specify the behaviors they can adopt to contribute to that vision.

8.2.6 For achieving Garbage Free outcomes, households and citizens would need to be sensitized about:

- i. segregating their household waste into two bins;
- ii. taking ownership to maintain cleanliness of their immediate neighbourhoods;
- iii. educating others about the importance of cleanliness;
- iv. harmful effects of single use plastic and triggered to reduce their usage;

8.2.7 For sanitation and used water management, households and citizens would need to be sensitized about:

- i. the harmful effects of grey and black water from kitchens and toilets not being safely contained, transported and managed
- ii. maintaining community toilets in a functional manner,
- iii. providing feedback after using public toilets
- iv. calling for periodic desludging of their septic tanks

8.2.8 ULBs should facilitate formal creation and registration of all citizen residential areas into RWAs/ CBOs/ Slum Development Associations or equivalent, to strengthen ULB's last mile connect with every household.

8.2.9 ULBs should set up City Sanitation Committees with participation of selected citizen representatives for periodically reviewing and monitoring the efficient functioning of assets created.

8.3 States and ULBs may make use of existing IEC material designed at the national level, in addition to developing their own creative content, depending on the local and cultural context.

8.4 States will make sure that at least three comprehensive multi-media campaigns are created and placed in public domain: 1. in favour of garbage free city 2. Usage and maintenance of toilets, especially public and community toilets 3. Safe disposal of used water.

8.5 States will locate opportunities to converge SBMU campaigns with other highly visible major campaigns for gaining collateral impact

8.6 States and ULBs will coordinate with locally resourceful organizations/ enterprises so that they partake in SBM-U 2.0 messaging in a significant manner and add to the overall communication.

8.7 Fund sharing (as mentioned in section 4.5.4)

8.7.1 The Centre: State fund sharing for this component will be as given below:

- 90:10 for ULBs in NE/Himalayan States;
- 100% for UTs without legislature;
- 80:20 for UTs with legislature;
- 60:40 for other States/ UTs

8.7.2 A total of 5% of the total allocation for project components of the overall budget will be earmarked for this component. Of this earmarked amount, 80% of the Central share will be released to States/ UTs/ ULBs to design and undertake IEC/ BCC interventions. Out of this released amount, half the amount must be allocated to ULBs by respective State/ UT. The remaining 20% per cent will be earmarked for the National Mission Directorate to draw up a national campaign and develop standard campaign tools for effective awareness and communication.

8.7.3 The 1st instalment of 40% of allotted Central share from MoHUA will be released

to the State/ UT for a ULB provided the entry conditions specified in Section 4.2, and following additional conditions are satisfied:

- *SLTC approved IEC action plan for State submitted (as per Annex 7).*

8.7.4 The 2nd instalment of 60% of allotted Central share from MoHUA will be released to the State/ UT for a ULB provided the following conditions are satisfied:

- *UC submitted for 75% expenditure of Central and State share;*
- *50% Progress against action plan;*
- *City certified ODF+;*
- *City certified at least 1-star with 60% source segregation.*

8.7.5 Expenditure on national Newspaper and TV is not an admissible item under this component for the State Government or for the ULBs.

8.7.6 Under no circumstance shall the IEC fund be utilized for purchase of vehicles, construction and maintenance of buildings, creation of posts and payment of salary of municipal staff, and purchase of furniture and fixtures.

8.7.7 While approving IEC proposals, SHPC should ensure that at least 80% of the funds requested are for ground -level behavior change initiatives through inter-personal communication, rather than for merely messaging and awareness activities.

8.7.8 In light of the experience of the past, it is advised that ULBs will need to report expenditure on IEC to the State Mission every month and States in turn will provide information on monthly expenditure in IEC to SBMU Mission at MoHUA through the designated portal. For further release of funds to States, at least 75 % of utilization of funds earmarked for IEC would be considered essential.

8.8 Outcomes

It is expected that outcomes of the IEC and BCC initiatives would lead to:

- a) all households segregating their household waste into two bins and ensuring its due disposal
- b) all citizens sensitized about non-acceptability of garbage in any form in their vicinity and acting for its due disposal
- c) all citizens sensitized about harmful effects of usage of single use plastic and triggered to reduce their usage
- d) all citizens sensitized about necessity for getting septic tanks periodically desludged and acting accordingly

CAPACITY BUILDING, SKILL DEVELOPMENT & KNOWLEDGE MANAGEMENT

Sets out the overall approach to be adopted by ULBs for building the capacities and skills of all stakeholders, preeminently of the ULBs, in order to ensure effective ground level implementation, for achieving the vision of “Garbage Free” cities and towns, and for meeting all other objectives of SBM-U 2.0.

9.1 Urban Local Bodies (ULBs) are mandated by the Constitution of India, under Twelfth Schedule, to carry out functions related to water supply and sanitation. The first phase of the Swachh Bharat Mission was successful in meeting its aims and objectives to make India an ODF country, but also brought to light qualitative and quantitative shortfalls in the capacities of the key personnel engaged in the implementation of the Mission. With the launch of SBM-U 2.0, it has become imperative to develop a cadre of professionals at the ULB level and also at the State level to work towards the specific objectives of the Mission, and sustain the gains made in last seven years. Identifying the need to make the Mission truly people-centric and stakeholder-owned, SBM-U 2.0 will focus on comprehensive capacity building across the pyramid of stakeholders engaged in program implementation, and most importantly at the ULB level. This would include components for which funding is available within the mission, and other related areas where funding is available through convergence with other schemes, including leveraging of AMRUT 2.0 and other relevant

Mission/ Programme funds such as SBM-Grameen, Namami Gange, Ministry of Social Justice and Empowerment, etc.

9.2 In line with these goals, there is a requirement for a focused approach to capacity building and stakeholder development. Thus, MoHUA will conceptualize a National Capacity Building and Skill Development Strategy to be implemented at the Central, State/UT and ULB levels. States/UTs and ULBs will be required to identify relevant administrative and technical officials (both senior level officials and field-level functionaries, including sanitation workers and *safaimitras*) for training and draw up a quarterly training calendar for them. It will be the responsibility of the State Mission Director to ensure that the identified officials undergo adequate capacity building to ensure the success of SBM-U 2.0 at the State and ULB level. Another key component of the National Strategy Document would be a robust mechanism of assessments and certifications for the capacity building and skill development training imparted, which would also include independent evaluations.

9.3 Capacity Building and Skill Development Mission.

The capacity building and skill development initiatives under SBM-U 2.0 will focus on the selected key stakeholders in the sanitation and waste management value chain, who will be trained in the following key priority areas, with support from the professional organizations that will be partnered at the Central and State/UT level as per the procedures laid down in the National Capacity Building and Skill Development Strategy document under SBM-U 2.0.

9.3.1 State Government and Parastatal Officials

- Focus on institutionalizing holistic leadership development and change management by facilitating customized capacity building and training through workshops, online training and short-term technical courses.

9.3.2 Administrative Officials of ULBs:

- Focus on developing implementation capacity and change management functionalities by creating targeted capacity building training, e-learning courses and online workshops.
- Developing a comprehensive approach to human resource development with a sensitization towards the social, economic and technological environment for effective implementation and service delivery under the

9.3.3 PHE and Technical Officials of the ULBs

- Technical officials and staffs will be provided hands on technical training, access to e-learning courses, workshops, field visits and knowledge exchange exposure visits to enhance their capacity to effectively implement objectives of SBM-U 2.0. Courses will be focused on the latest technologies, which are sustainable, environmentally friendly, and context appropriate.
- In addition to trainings developed towards enhancing the technical knowledge and skill sets, the PHE and technical officials will also be imparted trainings to sensitize them with the citizen centric and social aspects of the Mission, with the intent of inculcating a holistic human centered approach to all interventions under the Mission.

9.3.4 SafaiMitras and Sanitation Workers:

- Focus on the skill development of Safaimitras and sanitation workers, and the promotion of entrepreneurship across the value chain in the sanitation sector, in partnership with Ministry of Skill Development & Entrepreneurship, NSDC and respective Sector Skill Councils.
- Conducting a skill gap study to develop an understanding of the human resource requirement in the sector, demand and supply scenario of skilled people, skilling gaps in the

existing workforce and recognition of skills of the informal workers.

- Training and orientation of Master Trainers for conducting the trainings on relevant subject areas in sanitation.
- Institutionalizing a robust framework for undertaking Recognition of Prior Learning (RPL) based assessments and providing certifications, in consonance with the NSQF, to the Safaimitras and sanitation workers to recognize the existing skill sets and to ensure that a high quality of training is imparted for further progression.
- A special emphasis will be laid on imparting training to the sanitation workers to build their technical knowledge and skill sets for operating advanced equipment and safety gears.

9.3.5. NGOs, Educational and Skilling Institutes and other organizations

- Focus on engaging diverse sets of organizations such as NCC, NSS, NYK, Skill Institutes along with schools and colleges to impart targeted Capacity Building training. The training will be centered upon enabling these organizations to become ambassadors of the Mission and to contribute towards the implementation of initiatives under the focus areas of SBM (U)- 2.0, with a special emphasis on those components, which are to be executed in a campaign mode, such as Garbage Free Cities, maintenance of community/public toilets, safe disposal of wastewater and reduction of plastics, amongst others.

9.4 Center(s) of Excellence (CoE) focusing on capacity building, research, and innovation in key thematic areas of sanitation and waste management, will be established at the national level in partnership with eminent knowledge institutions. The mandate of the CoE will be to provide leadership & technical training, policy guidance, develop best practices, and other relevant activities on sanitation and waste management issues, in line with the aims and objectives of the Mission.

9.5 Chair Professor position(s) will be established at select academic institution(s) of national repute in the field of sanitation and waste management, with funding support from the Centre.

9.6 For building the capacities of technical officials at Central, State/UT and ULB level, (in-service engineers, other technical officials) regular master level training programs and short-term courses under PHE training will be implemented at the national level by MoHUA.

9.7 Government, Non-Government, educational and professional Institutions of repute and with prominent experience in the field of Capacity Building, particularly in sanitation and waste management will be empaneled as '**Swachhta Knowledge Partners**' (SKPs), to support the design and delivery of training modules and workshops on capacity building and skill development, to ensure effective implementation of the Mission. The Swachhta Knowledge Partners will be selected and onboarded as per the procedures laid down

in the National Capacity Building and Skill Development strategy document.

9.8 MoHUA will establish strategic collaborations under the Mission with key development sector organizations, having prominent sectoral expertise, knowledge and implementation experience across thematic areas. The development sector partner organizations will play a pivotal role in providing technical assistance at the Central level and handholding support to States/UTs and ULBs in implementing capacity building and skill development interventions under the Mission.

9.9 To promote affordable and scalable modern technologies suitable to different geographical conditions, a national level technical committee will be set up at MoHUA under the Mission exclusively for promoting research & development, innovations and entrepreneurship in the field of sanitation and waste management.

9.10 A part of Central funds will be used to pilot innovative projects/ start-ups in sanitation and SWM sectors, in partnership with States/ UTs, reputed institutes of national importance, etc.

9.11 States/UTs will also be encouraged to set up incubators to provide support to entrepreneurship, innovation and private sector participation.

9.12 Swachhata Technology Challenges,

hackathons, etc. will be conceptualized and implemented in collaboration with the key private sector organizations, towards encouraging startups and social business ventures to develop innovative digital solutions and business models in the sanitation and waste management sector. The Challenges will encompass diverse thematic areas and endeavor to achieve the dual objective of identifying and leveraging key enabling technologies while also encouraging and recognizing local entrepreneurs and technology solutions at the national level.

9.13 Knowledge Management

9.13.1 A comprehensive Knowledge Management Framework will be institutionalized to augment the capacity building initiatives under the Mission. As a part of this, the relevant knowledge materials such as training modules literature, videos, plans and reports developed by the ULBs during the implementation of various initiatives across focus areas of the Mission, will be consolidated and uploaded onto the SBM-U e-Learning portal for ease of use and access by all stakeholders. Further, the training and the technical material developed for trainings will be made available via the SBM-U e-Learning platform.

9.13.2 States/ UTs will be encouraged to set up technical cells within premier academic/ technical institutions to facilitate Research & Development.

9.13.3 As part of the training needs analysis, it is suggested that ULBs ascertain the gaps and deficiencies in the available training material and aim to fill those gaps by suitably revising the existing material or developing new modules if required, before conducting the trainings for relevant stakeholders.

- Materials used for training in workshops, capacity building courses and other technical courses shall be uploaded on SBM-U e-learning portal for ease of use and access.
- The States / UTs and ULBs shall be free to add their own resource materials to the SBM-U e-learning platform. It is suggested that ULBs revise and update the training material at regular intervals.

9.14 Human Resource Support under SBM (U) 2.0:

following human resources. The State/UT shall have the flexibility of expanding the PMU with additional specialists based on their specific requirements.

9.14.1 In addition to enhancing the capacities of the key officials and sanitation workers, there is a pertinent need for dedicated human resources with specialist knowledge and skills in order to strengthen the implementation of the various components of the Mission. Towards this, dedicated human resource units have been envisaged at the State/UT level, the details on which have been elaborated below.

9.14.2 At the State/UT level, a dedicated Program Management Unit (PMU) will be set up under the Mission to ensure effective implementation of the SBM-U 2.0. Parastatal bodies supporting ULBs in implementation of Mission components may be supported with human resources as per the requirements.

9.14.3 The Program Management Unit at the State/UT level should ideally consist of the

State Level PMU (With more than 100 ULBs)	State Level PMU (With less than 100 ULBs)
1. SWM expert - 1 2. Waste-Water expert - 1 3. Procurement Specialist - 1 4. Capacity Building Specialist - 1 5. IEC Specialist - 1 6. M & E Specialist - 1 7. IT Specialist – 1 8. Documentation Specialist – 1 9. Additional specialist – 1 (As per requirement)	1. SWM expert- 1 2. Waste-Water expert - 1 3. Procurement Specialist - 1 4. Capacity Building Specialist - 1 5. IEC Specialist - 1 6. IT and M & E Specialist - 1 7. Additional specialist – 1 (As per requirement)

9.14.4 A specialized program will be conceptualized and implemented for engaging students from academic and technical institutions as young professionals and interns for supporting interventions under SBM U 2.0 at the National as well as the State/UT level. The selected young professionals and interns will be deputed to select projects across focus areas under the Mission, for a stipulated time, and will play a pivotal role in augmenting the internal human resources of the departments while also strategically integrating the youth with SBM-U 2.0.

9.14.5 The ULBs will be provided with the flexibility to hire Young Professionals and interns to augment their internal human resources for key project implementation activities under the Mission. Additionally, State may provide human resource support from their own share of funding for implementation of key mission components under SBM (U) 2.0.

9.15 Funding Mechanism

9.15.1 The Centre: State fund share for this component will be as given below:

- 90%:10% for ULBs in NE/ Himalayan States,
- 100% for UTs without legislature
- 80%: 20% for UTs with legislature,
- 60%: 40% for other States/ UTs.

9.15.2 A total of 3% of the total allocation for project components will be earmarked for the component of Capacity Building, Skill

Development and Knowledge Management. Out of the Central share for this component, 67% will be earmarked for States/ ULBs to conduct capacity building and skill development initiatives. The remaining 33% will be earmarked for MoHUA. It may be noted that Administrative and Office expenditure in a year should be kept as a proportion of actual expenditure / output rather than as a percentage of indicative outlay.

9.15.3 The disbursal of the Central Assistance will be as follows- **1st instalment of 40%** of allotted Central share from MOHUA will be released to the State/ UT for a ULB provided the entry conditions specified in Section 4.2, and following additional conditions are satisfied:

- *SHPC approved CB action plan for State submitted (as per Annex 8).*

9.15.4 The **2nd instalment of 60%** of allotted Central share from MOHUA will be released to the State/ UT for a ULB provided the following conditions are satisfied:

- *40% of identified State Officials/ Parastatal Officials/ ULB Officials trained (in some format of training);*
- *40% of Sanitation workers identified for skill development completed training;*
- *All informal sector workers (including those in sewer and septic tank cleaning) identified and integrated by ULB;*
- *City certified ODF+;*
- *City certified at least 1-star with 60% source segregation;*

9.15.5 Under no circumstance shall this fund be utilized for purchase of vehicles, construction and maintenance of buildings, creation of permanent/regular posts and payment of salary, and purchase of furniture and fixtures, etc.

9.15.6 States/ UTs/ ULBs may take assistance of PSUs and Corporates through CSR for implementing capacity building programs

9.15.7 States/ UTs and ULBs, if they so wish, may use the CB funds to upgrade/ strengthen their existing institutes / entities to provide capacity building support to the State/ ULB.

9.15.8 States shall propose extensive capacity building activities, including training of administrative and technical staffs, conducting skill gap analysis, skill development training programs for sanitation workers to be implemented in a Mission- mode manner, which will enable the progressive achievement of objectives of SBM-U 2.0 in a time-bound manner. These will be specified in the comprehensive annual action plan prepared by each State/UT and approved by SHPC. At least 50% of this fund, in each annual plan, as approved by SHPC must go to the ULBs for activities at the ULB level.

9.15.9 The SLTC will approve State training plan comprising the following:

- Training Need Analysis (TNA) for Capacity Building and Skill Gap Analysis for Skill Development;
- Training Modules and Tools;
- Institutions to impart training, and cost of training;
- Mandatory Inclusion of areas identified by CPHEEO;
- Training Calendar;
- Evaluation of training.

9.16 Expected Outcome

It is expected that outcomes of the Capacity Building, Skill Development and KM initiatives would lead to improvement in capacities, knowledge, skills, leadership development and change management competencies of ULB officials and Sanitation workforce connected with implementation of Mission, through Workshops, Seminars, Trainings, etc.

IT ENABLED GOVERNANCE

Enumerates the various digital enablements developed for maximising citizen outreach, along with facilitating a transparent and an objective monitoring and evaluation of Mission progress, to ensure a smooth and seamless user experience by all stakeholders, and making the Mission paperless, towards ensuring standardization of outcomes across all ULBs.

10.1 Digital interventions will support different stages of SBM-U implementation in a paperless manner, across all components, starting from conceptualization, implementation, and real-time online monitoring of functional assets to be created under different components of the Mission, such as STP, MRF etc, and other key indicators of progress for the Mission. The ICT and GIS enabled tools and systems will also be leveraged in the evaluation of the interventions.

10.2 MoHUA has developed various workflow based, web enabled IT-enabled applications and mobile applications in order to ensure a transparent and robust citizen-centric engagement, Mission governance, Mission implementation, along with facilitating collaborations amongst key stakeholders & capacity building.

10.3 The various IT-enabled applications that will be mandatorily deployed for all implementation components of the Mission, including the monitoring of the progress of the Mission, are briefly described:

10.3.1 SBM-U Integrated platform: MoHUA has developed a comprehensive platform that provides an integrated experience for States/UTs and ULBs and enabled fact-based decision-making at various levels of governance. The portal allows ULBs to create city profiles (ward, area, workforce, vehicles, BWGs, Non BWGs, vendor details, etc.), upload details of city infrastructure and assets (e.g. processing plants, landfills, dumpsites, water bodies, storm water drains, STP/FSTP etc.) and report their sanitation and waste management progress on a monthly/periodic basis through a single sign-on approach. The platform standardizes information across States/ULBs and ensures a single source of truth and data consistency across levels.

10.3.2 Swachhata App: This is a Mobile based application that enables citizens to register sanitation related complaints and enables the ULBs to address the citizen's grievances efficiently and effectively. The app plays a pivotal role in scaling demand and ensuring transparency and accountability in sanitation

service delivery. In its updated version, the App will, in addition to taking feedback, also engage with citizens for validating the information regarding the city's progress on improving sanitation outcomes, in a time-bound manner. The App is available on both Google Play & IOS platforms.

10.3.3 SBM Toilets on Google Maps and CT/PT feedback system - To improve access to, and thereby their usage, of community and public toilets, MoHUA has partnered with Google to map all CT/ PTs on Google maps, as SBM Toilet. In its updated version, citizens can also provide feedback and rate these public toilets which, in turn, will lead to better cleanliness and maintenance of these facilities.

10.3.4 Geo spatial enabled Project Proposal Creation and Tracking System: This application has been designed to enable States/ ULBs to upload their SHPC-approved project proposals (along with the documentation as per the checklist circulated by the National Mission Directorate) for the release of Central share by MoHUA, dissemination of funds by States/ UTs (i.e. Central share + State share) to respective ULBs, and subsequently, digitally tracking the project's progress and functionality. MoHUA, States/ UTs and ULBs would be able to receive and transmit documents in electronic mode with a facility of system-generated alert messages (SMS & e-mail), for greater transparency. The GIS-based monitoring & controlling of the project would support Mission governance, through periodic online uploading of photographs of progress on

project site, along with its geo coordinates.

10.3.5 Annual GFC Rating, Swachh Survekshan & ODF Assessments through an integrated module: An integrated system is being designed to capture online data for assessment, digital tools to conduct self-assessment, uploading of documents required for desktop assessment. The Assessor App for use by third party agency is also an integral part of the platform. This integration will help in minimizing the assessment duration and also optimize the documents requirement, especially where similar documents are required across multiple protocols and assessments.

10.3.6 GIS Mapping of SBM-U assets and infrastructure: MoHUA has developed web and mobile applications that will enable all ULBs to draw their city boundaries, ward boundaries, assets (CT/ PT, processing plants, STP, FSTP, etc.) boundaries, map existing geo spatial data and collect geo-location of all facility points in existence. This GIS application provides a wide range of capabilities such as data visualization, analysis, understanding and insight into city or ULBs' activities, both current and planned.

10.3.7 Dashboard and Analytics platform: This is a stakeholder requirement-based analytical dashboard for monitoring the progress of SBM-U 2.0, with inbuilt data standardization and validation mechanism that ensures informed decision making. The dashboards at ULB, State and National level will provide a unified experience with accumulated data points. It is planned to be supported by

AI-driven components such as Chatbot and predictive analytics.

10.3.8 E-Learning Platform: The current pandemic has demonstrated the importance of digital medium to ensure that the process of learning continues uninterrupted. The E-learning platform takes care of the training needs of the frontline workers, ULBs, mission officials, agencies and citizens, at a time and place of their convenience. Moreover, the e-learning platform has a modular, incremental approach with training/ learning modules customized to different audiences and levels.

10.3.9 14420 Helpline – In a bid to reduce incidences of unsafe manual entry into sewers and septic tanks, and promote their cleaning through mechanized means, MoHUA, through Department of Telecommunications (DoT), has been given a short code “14420” as the National Helpline number across all telecom service providers, for registering citizens’ complaints on this issue.

10.4 Other digital initiatives: A list of additional IT-enabled modules under development or planned for the future as per of digital roadmap of the Mission is summarised below:

10.4.1 Swachh Nagar and IoT based asset monitoring: to provide ease of monitoring waste management lifecycle at ULB, State and Central levels. It is envisioned that the solution would generate large amounts of data to

accelerate the progress in solid and liquid waste management in the mission.

10.4.2 Document Management System - System is used to receive, track, manage and store documents exchanged at various levels and encourage paperless communication.

10.4.3 IEC activities tracking system - Facilitating ULBs to track and trace the planned IEC activities for citizen outreach.

10.5 Evaluation Mechanisms

The aforementioned digital solutions will also play a pivotal role in enabling the holistic evaluation of the outcomes and outputs under SBM (U) 2.0.

10.5.1 The National Mission Director would conduct periodic reviews in the form of monthly reviews (through VC) with each State and select ULBs (as required). Further, periodic visits would also be conducted by officials of MoHUA / NMD, etc. to monitor on-ground progress, understand challenges and identify good practices adopted by States/ULBs.

10.5.2 The National Mission Directorate will engage appropriate third-party independent agencies for conducting certifications/ assessments of cities as per the ODF+/ODF++/ Water+ protocols and the Garbage Free Star Rating system. Background data for the same shall be taken from the Mission MIS, and any additional requirements would be communicated to States/cities from time to time.

10.5.3 The National Mission Directorate will undertake an annual ranking exercise - Swachh Survekshan. The survey has a comprehensive list of *Swachhata* parameters with a robust methodology to competitively rank the cities on initiatives undertaken and progress made, towards enhancing the cleanliness and improving the sanitation service delivery chain, both in terms of quality of safely managed services and access to such services. The methodology of the survey will be revised on an annual basis and would be released to States/ UTs/ ULBs prior to on-field assessments.

10.5.4 States / UTs would need to submit an output-outcome plan (as per format given in **Annexure 5**), and thereafter submit quarterly progress on the same format.

10.5.5 Other tools such as impact studies, third party evaluations may also be instituted by National Mission Directorate.

10.5.6 After 18 months, a comprehensive evaluation of the Mission's progress will be undertaken to effect mid-term correction and align the Mission to achieve its objectives.

10.6 States/ UTs need to ensure that the information provided by ULBs is correct by periodic review of the information provided by their ULBs and signing off on the data submitted, to signal their approval/ confirmation of the ULB data. It may be noted that MoHUA will only be accepting those ULBs' data for further action that has been confirmed/validated by the respective State/UT.

10.7 States/ ULBs are also encouraged to periodically conceptualize and launch suitable ICT platform to create awareness among citizens to provide feedback on mission outcomes through communication channels like social media, IVR, mobile app, email, WhatsApp, website, etc. The innovative solutions, if found feasible and successful, can be suitably replicated, and scaled up.

10.8 The various IT enabled applications will be eligible activities for funding under the capacity building head of the Mission.

10.9 Digital components pertaining to monitoring of efficiency/ operational outcomes of SBM-U project components (Sanitation, Wastewater Management & SWM) will be funded under the respective component heads.

ANNEXURES

ANNEX 1: LIST OF ULBs ELIGIBLE FOR C&D WASTE PROCESSING AND MECHANISED SWEEPING FUNDING

(As referred in Chapters 2 and 7)

S.No	State Name	ULB Name	Status of City	Population
1	Andhra Pradesh	GVMC Visakhapatnam	NAC	>20 Lakhs
2	Andhra Pradesh	Vijayawada	NAC	10-20 Lakhs
3	Andhra Pradesh	Guntur	NAC	5-10 lakhs
4	Andhra Pradesh	Nellore	NAC	5-10 lakhs
5	Andhra Pradesh	Kurnool	NAC	5-10 lakhs
6	Andhra Pradesh	Rajahmundry	NAC	3-5 Lakhs
7	Andhra Pradesh	Anantapur	NAC	3-5 Lakhs
8	Andhra Pradesh	Ongole	NAC	3-5 Lakhs
9	Andhra Pradesh	Vizianagaram	NAC	3-5 Lakhs
10	Andhra Pradesh	Eluru	NAC	1-3 Lakhs
11	Andhra Pradesh	Kadapa	NAC	1-3 Lakhs
12	Andhra Pradesh	Chittoor	NAC	1-3 Lakhs
13	Andhra Pradesh	Srikakulam	NAC	1-3 Lakhs
14	Assam	Guwahati	NAC	10-20 Lakhs
15	Assam	Silchar	NAC	1-3 Lakhs
16	Assam	Nagaon	NAC	1-3 Lakhs
17	Assam	Sibsagar	NAC	<1 Lakh
18	Assam	Nalbari	NAC	<1 Lakh
19	Bihar	Patna	NAC	>20 Lakhs
20	Bihar	Gaya	NAC	5-10 lakhs
21	Bihar	Muzaffarpur	NAC	3-5 Lakhs
22	Chandigarh	Chandigarh	NAC	10-20 Lakhs
23	Chhattisgarh	Raipur	NAC	10-20 Lakhs
24	Chhattisgarh	Bhilai Nagar	NAC	5-10 lakhs
25	Chhattisgarh	Korba	NAC	3-5 Lakhs
26	Delhi	South Delhi (Sdmc)	NAC	>20 Lakhs
27	Delhi	North Delhi (N-Dmc)	NAC	>20 Lakhs
28	Delhi	East Delhi (Edmc)	NAC	>20 Lakhs
29	Gujarat	Ahmedabad	NAC	>20 Lakhs
30	Gujarat	Surat	NAC	>20 Lakhs
31	Gujarat	Vadodara	NAC	>20 Lakhs

S.No	State Name	ULB Name	Status of City	Population
32	Gujarat	Rajkot	NAC	10-20 Lakhs
33	Gujarat	Bhavnagar	Non-NAC	5-10 lakhs
34	Haryana	Faridabad	NAC	10-20 Lakhs
35	Haryana	Gurgaon	NAC	10-20 Lakhs
36	Himachal Pradesh	Baddi	NAC	<1 Lakh
37	Himachal Pradesh	PaontaSahib	NAC	<1 Lakh
38	Himachal Pradesh	Sunder Nagar	NAC	<1 Lakh
39	Himachal Pradesh	Nalagarh	NAC	<1 Lakh
40	Himachal Pradesh	Parwanoo	NAC	<1 Lakh
41	Himachal Pradesh	Damtal	NAC	<1 Lakh
42	Himachal Pradesh	Kala Amb	NAC	<1 Lakh
43	Jammu And Kashmir	Srinagar	NAC	10-20 Lakhs
44	Jammu And Kashmir	Jammu	NAC	5-10 lakhs
45	Jharkhand	Dhanbad	NAC	10-20 Lakhs
46	Jharkhand	Ranchi	NAC	10-20 Lakhs
47	Jharkhand	Jamshedpur	NAC	5-10 lakhs
48	Karnataka	Bruhat Bengaluru Mahanagara Palike	NAC	>20 Lakhs
49	Karnataka	Hubli-Dharwad	NAC	10-20 Lakhs
50	Karnataka	Mysore	Non-NAC	10-20 Lakhs
51	Karnataka	Gulbarga	NAC	5-10 lakhs
52	Karnataka	Devanagere	NAC	5-10 lakhs
53	Kerala	Thiruvananthapuram	Non-NAC	10-20 Lakhs
54	Kerala	Kozhikode	Non-NAC	5-10 lakhs
55	Kerala	Kochi	Non-NAC	5-10 lakhs
56	Madhya Pradesh	Indore	NAC	>20 Lakhs
57	Madhya Pradesh	Bhopal	NAC	>20 Lakhs
58	Madhya Pradesh	Jabalpur	NAC	10-20 Lakhs
59	Madhya Pradesh	Gwalior	NAC	10-20 Lakhs
60	Madhya Pradesh	Ujjain	NAC	5-10 lakhs
61	Madhya Pradesh	Dewas	NAC	3-5 Lakhs
62	Madhya Pradesh	Sagar	NAC	3-5 Lakhs
63	Maharashtra	Greater Mumbai	NAC	>20 Lakhs
64	Maharashtra	Pune	NAC	>20 Lakhs
65	Maharashtra	Nagpur	NAC	>20 Lakhs
66	Maharashtra	Thane	NAC	>20 Lakhs

S.No	State Name	ULB Name	Status of City	Population
67	Maharashtra	Pimpri Chinchwad	Non-NAC	>20 Lakhs
68	Maharashtra	Nashik	NAC	10-20 Lakhs
69	Maharashtra	Kalyan Dombivali	Non-NAC	10-20 Lakhs
70	Maharashtra	Vasai Virar	NAC	10-20 Lakhs
71	Maharashtra	Aurangabad	NAC	10-20 Lakhs
72	Maharashtra	Navi Mumbai	NAC	10-20 Lakhs
73	Maharashtra	Solapur	NAC	10-20 Lakhs
74	Maharashtra	Mira-Bhayandar	Non-NAC	10-20 Lakhs
75	Maharashtra	Bhiwandi Nizampur	Non-NAC	5-10 lakhs
76	Maharashtra	Amravati	NAC	5-10 lakhs
77	Maharashtra	Nanded Waghala	Non-NAC	5-10 lakhs
78	Maharashtra	Kolhapur	NAC	5-10 lakhs
79	Maharashtra	Ulhasnagar	NAC	5-10 lakhs
80	Maharashtra	Sangli	NAC	5-10 lakhs
81	Maharashtra	Jalgaon	NAC	5-10 lakhs
82	Maharashtra	Akola	NAC	5-10 lakhs
83	Maharashtra	Latur	NAC	3-5 Lakhs
84	Maharashtra	Chandrapur	NAC	3-5 Lakhs
85	Maharashtra	Jalna	NAC	3-5 Lakhs
86	Maharashtra	Badlapur	NAC	1-3 Lakhs
87	Meghalaya	Byrnihat	NAC	<1 Lakh
88	Nagaland	Dimapur	NAC	1-3 Lakhs
89	Nagaland	Kohima	NAC	1-3 Lakhs
90	Odisha	Bhubaneswar	NAC	10-20 Lakhs
91	Odisha	Cuttack	NAC	5-10 lakhs
92	Odisha	Rourkela	NAC	3-5 Lakhs
93	Odisha	Balasore	NAC	1-3 Lakhs
94	Odisha	Kalinga Nagar/Byasanagar	NAC	<1 Lakh
95	Odisha	Angul	NAC	<1 Lakh
96	Odisha	Talcher	NAC	<1 Lakh
97	Punjab	Ludhiana	NAC	>20 Lakhs
98	Punjab	Amritsar	NAC	10-20 Lakhs
99	Punjab	Jalandhar	NAC	10-20 Lakhs
100	Punjab	Patiala	NAC	5-10 lakhs
101	Punjab	Pathankot/DeraBaba	NAC	1-3 Lakhs

S.No	State Name	ULB Name	Status of City	Population
102	Punjab	Khanna	NAC	1-3 Lakhs
103	Punjab	Gobindgarh	NAC	1-3 Lakhs
104	Punjab	NayaNangal	NAC	<1 Lakh
105	Punjab	DeraBassi	NAC	<1 Lakh
106	Rajasthan	Jaipur	NAC	>20 Lakhs
107	Rajasthan	Jodhpur	NAC	10-20 Lakhs
108	Rajasthan	Kota	NAC	10-20 Lakhs
109	Rajasthan	Bikaner	Non-NAC	5-10 lakhs
110	Rajasthan	Ajmer	Non-NAC	5-10 lakhs
111	Rajasthan	Udaipur	NAC	5-10 lakhs
112	Rajasthan	Alwar	NAC	3-5 Lakhs
113	Tamil Nadu	Chennai	NAC	>20 Lakhs
114	Tamil Nadu	Coimbatore	Non-NAC	>20 Lakhs
115	Tamil Nadu	Madurai	NAC	10-20 Lakhs
116	Tamil Nadu	Tiruchirappalli	NAC	10-20 Lakhs
117	Tamil Nadu	Salem	Non-NAC	10-20 Lakhs
118	Tamil Nadu	Thoothukudi	NAC	3-5 Lakhs
119	Telangana	Greater Hyderabad	NAC	>20 Lakhs
120	Telangana	Warangal	Non-NAC	10-20 Lakhs
121	Telangana	Nalgonda	NAC	1-3 Lakhs
122	Telangana	Patencheru	NAC	1-3 Lakhs
123	Telangana	Sangareddy	NAC	<1 Lakh
124	Uttar Pradesh	Lucknow	NAC	>20 Lakhs
125	Uttar Pradesh	Kanpur	NAC	>20 Lakhs
126	Uttar Pradesh	Ghaziabad	NAC	>20 Lakhs
127	Uttar Pradesh	Agra	NAC	>20 Lakhs
128	Uttar Pradesh	Meerut	NAC	10-20 Lakhs
129	Uttar Pradesh	Varanasi	NAC	10-20 Lakhs
130	Uttar Pradesh	Allahabad	NAC	10-20 Lakhs
131	Uttar Pradesh	Bareilly	NAC	10-20 Lakhs
132	Uttar Pradesh	Moradabad	NAC	10-20 Lakhs
133	Uttar Pradesh	Aligarh	Non-NAC	10-20 Lakhs
134	Uttar Pradesh	Saharanpur	Non-NAC	5-10 lakhs
135	Uttar Pradesh	Gorakhpur	NAC	5-10 lakhs
136	Uttar Pradesh	Noida	NAC	5-10 lakhs
137	Uttar Pradesh	Firozabad	NAC	5-10 lakhs
138	Uttar Pradesh	Loni (Npp)	Non-NAC	5-10 lakhs

S.No	State Name	ULB Name	Status of City	Population
139	Uttar Pradesh	Jhansi	NAC	5-10 lakhs
140	Uttar Pradesh	Raebareli	NAC	1-3 Lakhs
141	Uttar Pradesh	Khurja	NAC	1-3 Lakhs
142	Uttar Pradesh	Gajraula	NAC	<1 Lakh
143	Uttar Pradesh	Anpara	NAC	<1 Lakh
144	Uttarakhand	Dehradun	NAC	5-10 lakhs
145	Uttarakhand	Kashipur	NAC	1-3 Lakhs
146	Uttarakhand	Rishikesh	NAC	<1 Lakh
147	West Bengal	Kolkata (M Corp.)	NAC	>20 Lakhs
148	West Bengal	Haora (M Corp)	NAC	10-20 Lakhs
149	West Bengal	Durgapur	NAC	5-10 lakhs
150	West Bengal	Asansol	NAC	5-10 lakhs
151	West Bengal	Raniganj	NAC	5-10 lakhs
152	West Bengal	Siliguri	Non-NAC	5-10 lakhs
153	West Bengal	Haldia	NAC	1-3 Lakhs
154	West Bengal	Barrackpore	NAC	<1 Lakh

NAC: Non attainment city under NCAP

Non-NAC: not NAC, but included under “5 lakh and above” category

ANNEX 2: CITY SOLID WASTE ACTION PLAN (CSWAP)

(As referred in Chapter 2 and 6)

ULB's City Profile: (demographic and waste generation details)

1.	Name of the ULB:																																				
2.	Name of the District, State/ UT:																																				
3.	No. of Municipal Zones in ULB:																																				
4.	No. of wards in the ULB:																																				
5.	Population & Households in the ULB as per 2011 Census:																																				
	Population (P_0)		Households(HH_0)																																		
6.	Population & Households in the ULB as per current scenario:																																				
	Population (P_1)		Households(HH_1)																																		
7.	Projected Population & Households in the ULB @2025																																				
	Population (P_2)		Households(HH_2)																																		
8.	<table border="1"> <thead> <tr> <th colspan="5">Institutional & Governance framework</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Yes / No</th> <th>If no, action to be taken to notify & timeline</th> </tr> </thead> <tbody> <tr> <td rowspan="2">a</td> <td rowspan="2">Regulatory Framework</td> <td>Whether Municipal SWM Bylaws notified? (conforming to SWM Rules 2016)(furnish details)</td> <td></td> <td></td> </tr> <tr> <td>State SWM Strategy & Plan (available / not available)</td> <td></td> <td></td> </tr> <tr> <td>b</td> <td>Institutional Arrangement</td> <td>Roles and Responsibilities for dealing with MSWM services.</td> <td></td> <td></td> </tr> <tr> <td>c</td> <td>Governance Reforms -</td> <td>Implementation of e-governance in ULBs (available / not available)</td> <td></td> <td></td> </tr> <tr> <td>d</td> <td>ICT based Governance</td> <td>ICT based monitoring of MSWM operations, services and complaint redressal (furnish details)</td> <td></td> <td></td> </tr> </tbody> </table>				Institutional & Governance framework								Yes / No	If no, action to be taken to notify & timeline	a	Regulatory Framework	Whether Municipal SWM Bylaws notified? (conforming to SWM Rules 2016)(furnish details)			State SWM Strategy & Plan (available / not available)			b	Institutional Arrangement	Roles and Responsibilities for dealing with MSWM services.			c	Governance Reforms -	Implementation of e-governance in ULBs (available / not available)			d	ICT based Governance	ICT based monitoring of MSWM operations, services and complaint redressal (furnish details)		
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d	ICT based Governance	ICT based monitoring of MSWM operations, services and complaint redressal (furnish details)																																			

9.	MSWM Service Level Benchmarks			
	Indicator	B e n c h - mark	Before imple-mentation of project(s)	After imple-mentation of project(s)
1	Household level coverage of SWM services	100%		
2	Efficiency of collection of municipal solid waste	100%		
3	Extent of segregation of municipal solid waste	100%		
4	Extent of municipal solid waste recovered	80%		
5	Extent of scientific disposal of municipal solid waste	100%		
6	Efficiency in redressal of customer complaints	80%		
7	Extent of cost recovery in SWM services	100%		
8	Efficiency in collection of SWM-related user charges	90%		
--	Notified User Fee for MSWM services (provide details)			

Current MSW Management:

1.	Current MSW total generation in TPD (A): _____ TPD= Tonnes per day	Per Capita generation in gms: _____ (A x 10 ⁶ / P ₁)				
2.	Total waste collected (TPD): _____					
3.	No. of wards & % of wards practicing source segregation:					
	<table border="1"> <tr> <td>No of wards</td> <td>% of wards</td> </tr> <tr> <td></td> <td></td> </tr> </table>	No of wards	% of wards			
No of wards	% of wards					
4.	No. of wards & % of wards practicing 100% door to door waste collection:					
	<table border="1"> <tr> <td>No of wards</td> <td>% of wards</td> </tr> <tr> <td></td> <td></td> </tr> </table>	No of wards	% of wards			
No of wards	% of wards					
5.	Total quantity transported in TPD to:					
	<table border="1"> <tr> <td>Processing Plants</td> <td>SLF</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Processing Plants	SLF			
Processing Plants	SLF					

6.	Secondary collection points/Transfer Stations (TS) (only if TS is/ are existing, otherwise not applicable)		
	Waste stream	Number of TS	Capacity of TS (in TPD)
	Wet waste		
	Dry Waste		
7.	On basis of Waste Characterization, quantity of segregated waste generated (in TPD), of given waste streams		
	MSW Waste Stream	Quantity in TPD	% of MSW
	Wet waste		
	Dry Waste		
	Sanitary Waste		
	Domestic Hazardous Waste		
	Other wastes (Drain Silt & Inert)		
	C&D Waste	Qty in TPD	% of MSW
	Total C&D Waste generated		(expressed as % of A at row 1 above)
8.	Total quantity of MSW currently processed (B) in TPD:		
9.	Total design capacity* available of all types of processing plants in TPD: *All existing, under construction, approved and defunct plants (defunct plants that have not been written off) Note: This capacity will be equal to or greater than (B)		
10.	Operation & Maintenance and Recovery of SWM fees Issues Prepare statement of previous 5 years O&M costs incurred in ULB for O&M and the collections of SWM use fees and analyses for sustainability of O&M		

Assessment of requirement of processing plants/facilities:

A	Projected waste generation@2025 in TPD:	
	Per capita generation for calculating waste generation	
	ULBs > 10 lakh population@550 gms/capita:	
	ULBs 1 lakh -10 lakh (both included) population@450gm/capita:	
	ULBs <1 lakh population@300gm/capita:	

B	Projected Waste generation streams for year 2025:			
	Waste stream	Fraction in MSW (indicative–can be changed as per actuals in ULB)	Projected waste generation in TPD	% of MSW
	Wet Waste	55%		
	Dry Waste	35%		
	Domestic Hazardous waste	Minor		
	Other Waste(Drain Silt & Inert)	10%		
	To SLF (not more than)	20%		

Other components of MSW Management

C	Sanitary Landfill (SLF) (Filling CELL for 5 years only)		
	Waste sent to SLF restricted to 20% of total Municipal		
	SLF capacity for 5 years duly adding extra volume for daily cover, top cover etc. (as per Manual on MSWM) Tonnes/cum/day		

D	Estimated cost for proposed components as per GAP analysis			
	Waste Management Component	Total proposed requirement (gap projected @2025)	Estimated cost/ tonne (per machine for MRSs)	Proposed estimated cost
	Wet waste processing			
	Dry waste processing			
	C&D waste processing			
	Dumpsite Remediation			
	Sanitary Landfill			
	Transfer Station			
	Mechanical Road Sweepers (MRSs)			

Financing Planning of Fund Required for Addressing the GAPs (Rs. in Crore)

	Waste management Item	Total Pro- posed Cost	ACA under SBM-U 2.0	State Govt. Fund	ULB fund	Other Fund (PPP, others)
	For wet waste processing					
	For Dry waste processing					
	For C&D waste processing					
	For Dumpsite Remediation					
	For Sanitary Landfill					
	For Transfer Station					
	For Mechanical Road Sweepers					
	Grand Total					

Items not required/applicable in the particular ULB may be deleted

Module 1: MSW Processing GAP analysis & Action Plan

M1.1 GAP Assessment for 100% Processing of MSW at ULB level

Processing Facility proposals	Existing Plants Capacity (TPD)*	Status of Current Capacity- Deficit/ Surplus	GAP Projected @2025 (TPD)
Mixed Waste Processing Facility (continue to be used for either Wet OR Dry Waste) – Data taken for assessing capacities			No new mixed waste plant will be allowed
Composting Plants (for WET waste)			
Bio-methanation Plants (for WET waste)			
Material Recovery Facilities MRF- (for DRY waste)			
Standalone RDF Plants (for DRY waste downstream of MRFs)(not part of composting plants)			
Waste to Electricity (RDF based – only for ULBs > 10 lakh)			
Others (describe the nature of plants, feed stock should be source segregated waste)			

*(Operational/Under Constn. / in Tender Process, Non-Functional good condition)

Explanation for calculating the **GAP**.

Many ULBs have installed composting plants receiving mass waste, without segregation at source, but carry out segregation within the process. Such plants shall continue to be utilized for either wet or dry waste, for full design capacity with segregation at source. It will result in proposing plants for other waste stream only.

Additional process may be added down the line to process RDF if not already being done in such plants.

After the GAP analysis, actions need to be taken for preparation of DPRs; Identifying & earmarking land; documents for tenders etc.

M1.2 ULB level Action Plan for achieving 100% scientific MSW Processing

Processing Facility proposals	Proposed Plant Capacity (TPD)	Estimated Cost	Plant Commissioning Date
Composting Plants (for WET waste)			
Bio-methanation Plants (for WET waste)			
Material Recovery Facilities MRF- (for DRY waste)			
Standalone RDF Plants (for DRY waste downstream of MRFs)(not part of composting plants)			
Waste to Electricity (RDF based – only for ULBs > 10 lakh)			
Others (describe the nature of plants -feed stock should be source segregated waste)			
TOTAL			
<i>Other Proposals part of MSW</i>			
Construction of SLF			
Construction of TS, if required (ULBs >5lakh and haulage of fully loaded vehicles is > 15Km)			
TOTALs			

M1.3 ULB commitment timelines for Certification under Garbage-free Cities Star Rating

S No	GFC Star Rating Certification	Committed Date
1	1-Star GFC Rating Certification	
2	3-Star GFC Rating Certification	(mandatory before 31.3.2026)
3	5-Star GFC Rating Certification	These Certifications are beyond the mandatory requirement under SBM 2.0. ULBs are encouraged to get these certifications.
4	7-Star GFC Rating Certification	

**M1.4 State/ UT – Consolidated Financial Action Plan for MSW Processing:
Financials in Rs. Crore**

	FY 2021-22	FY 2022-23	FY 2023-24	TOTAL (equal to SBM 2.O SWM allocation, Processing part only)
Action Plan Amount				
No. of ULBs covered*				All ULBs in the State/ UT covered in APs by 2023-24
* Detailed ULB-wise, plant-wise Action Plan statement is to be furnished Action Plan approvals to be obtained by 31.3.2024 for all ULBs				

**M1.5 State / UT – Consolidated Certification- cum-Implementation Action Plan (only First
time GFC Certifications to be considered)**

Certification	Before SBM 2.O	FY 2021- 22	FY 2022- 23	FY 2023- 24	FY 2024- 25	FY 2025-26
No. of ULBs rated 1-Star				All ULBs to be 1-Star rated by 31.3.2023		
No. of ULBs rated 3-Star*						
No. of ULBs with 100% waste processing						
* All ULBs to become 3-Star GFC Rated before 31.3.2026						

Module 2: Legacy Waste Dumpsites Remediation Action Plan

M2.1 ULB's Dumpsite Remediation Plan (applicable only if ULB has an existing dumpsite(s))

Total quantity of existing legacy waste in tonnes	
Land occupied by the dumpsite, Acres	
Proposed method for remediation*	
Action plan for recoverable material	
Indicative Uses/ Utilization of Segregated Material	
Land to be recovered, Acres (extent of land from which waste is completely removed)	
End uses of remediated dumpsite area	
Estimated Cost for Remediation	
Most likely date for complete remediation (not beyond 31.3.2023 for ULBs < 10 lakhs and 31.3.2024 for ULBs > 10 lakhs)	

* to be compliant with extant NGT and Court orders

M2.2 State/ UT- Consolidated Financial Action Plan for Dumpsite Remediation:

Financials in Rs. Crore

	FY 2021-22	FY 2022-23	TOTAL (equal to SBM 2.O allocation for dumpsite remediation for the State / UT)
Action Plan Amount			
No. of ULBs covered*			All ULBs in the State/ UT
Action Plan approvals to be obtained by 31.3.2022 for all ULBs <10 Lakh and by 31.3.2023 for all ULBs >10 lakh			
* Detailed ULB-wise, dumpsite-wise Action Plan statement is to be furnished			

M2.3 State/ UT – Consolidated Dumpsite Remediation Implementation Action Plan

Remediation	Before SBM 2.O	By 31.7.2022	By 31.3 2023	By 31.3.2024	TOTAL
No.ofULBscompleting remediation					All ULBs in the State/ UT to complete remediation by 31.3.2024

Module 3: C&D Waste Processing Action Plan (only for 154 non-complying (NCAP cities) and 5-lakh size ULBs)

M3.1 ULBs Gap Assessment for Processing of Construction and Demolition Waste (Applicable for ULBs > 5 lakh population and/or 154 Non-attainment cities)

Estimated C&D Waste generated @ 50gm/capita of total Municipal Solid Waste in TPD	
Add 25% extra for bulk C & D waste generators, depositing with ULB	
Add 20% over and above	
Total C&D waste currently generated in TPD	
Existing capacity of C&D waste processing plant available in TPD	
Proposed capacity in TPD for 2025	

M3.2 State/ UT – Consolidated Financial Action Plan for C&D Waste Processing: Financials in Rs. Crore

C&D Waste Processing	FY 2021-22	TOTAL (equal to SBM 2.0 allocation for C&D Waste Plants)
Action Plan Amount		Approvals to be obtained by 31.3.2022 for all the ULBs concerned in one go, thus prioritizing control of air pollution
Detailed Statement of ULB-wise C&D waste processing plant proposals are to be furnished		

M3.3 State/ UT– Consolidated C&D Waste Processing Plants Implementation Action Plan

Setting up C&D Waste Processing Plants	Before/Outside SBM 2.0	By 31.7.2022	By 31.3.2023	TOTAL
No. of ULBs				All ULBs > 5lakh + NCAP ULBs in the State/ UT to complete the plants by 31.3.2023

Module 4: Mechanical Road Sweepers Action Plan (only for 154 non-complying (NCAP) and 5-lakh size ULBs)

M4.1 Mechanical Road Sweepers (Applicable only for ULBs > 5 lakh population and/or 154 Non-attainment cities) - Assessment for a ULB:

Length of road to be swept daily(Only those roads which are 4-lane or more lanes)	
Detailed calculation of mechanical sweeping required in Lane-KMs	
Proposed no. of Machines required to sweep the length	
No. of Machines currently operating /existing	
Current requirement of machines (nos)	

M4.2 State/ UT – Consolidated Financial Action Plan for Mechanical Road Sweepers:
Financials in Rs. Crore

	FY 2021-22	TOTAL (equal to SBM 2.0 allocation for Mechanical Road Sweepers)
Action Plan Amount		Approvals to be obtained by 31.3.2022 for all the ULBs concerned in one go, thus prioritizing control of air pollution
<i>Detailed Statement of ULB-wise Mechanical Road Sweepers proposals are to be furnished</i>		

M4.3 State Government / UT Administration – Consolidated Mechanical Road Sweepers Implementation Action Plan

Equipping ULBs with Mech. Road Sweepers	Before/Outside SBM 2.0	By 31.7.2022	By 31.3.2023	TOTAL
No. of ULBs				All ULBs > 5lakh + NCAP ULBs in the State/ UT to complete procurement of MRSs by 31.3.2023

STATE/ UT ANNUAL ROADMAP

I. State/ UT Annual Action Plans (Financial)

(Aggregate of action plans mentioned at M1.4, M2.2, M3.2 and M4.2 above)

	FY 2021-22	FY 2022-23	FY 2023-24	TOTAL
Sub-Action Plans:				
MSW Processing				
Dumpsite Remediation				
C&D Waste Processing				
Mechanical Road Sweepers				
Cumulative Action Plan TOTAL				(equal to SBM 2.0 allocation)
No. of ULBs covered				All ULBs in the State/ UT are to be covered in Action Plans by FY 2023-24 leaving adequate time for implementation

II. Roadmap for Deliverables:

MSWM compliances	Before SBM 2.0	By 31.3.2022	By 31.3.2023	By 31.3.2024	By 31.3.2025	By 31.3.2026
No. of ULBs with -						
100% MSW processing						(All ULBs)
100% Dumpsite Remediation				(all ULBs concerned)	-----	-----
100% C&D Waste processing			(all ULBs concerned)	-----	-----	-----
Mechanical Road Sweeping			(all ULBs concerned)	-----	-----	-----
* All ULBs to become 3-Star GFC Rated before 31.3.2026						

III. Roadmap for Garbage Free City (GFC) Star Rating Certifications:

Certification	Before SBM 2.0	By 31.3.2022	By 31.3.2023	By 31.3.2024	By 31.3.2025	By 31.3.2026
No. of ULBs with GFC 3-Star Certification (mandatory under SBM 2.0) or higher certification						(All ULBs)

ANNEX 3A: CITY SANITATION ACTION PLAN (CSAP): FOR TOILETS

(As referred in Chapters 2 and 7)

To be filled in by all ULBs

S. No	Description	Particulars	Detailed description	Remarks
A	GENERAL INFORMATION			
1	Location and Physical aspects			
1.a	Location	Name of the City, District, State		
1.b	Physical Aspects	Municipal Area in sq. km and Class of Town		
		Number of Wards		
		Geographical description -Hilly area, river, Environmental sensitive area etc.		
1.c	Maps	Map depicting administrative boundaries, roads and railways, water bodies, Important landmarks etc. (if not available, to be prepared)		
		Topo-Sheet (ref: Survey of India, Scale - 1:50000) (if not readily available, get it)		
2	Demography and Growth pattern			
2	Population	Census data - Latest census data and previous census data (population projection for 2025, 2040 and 2055)		
		Slum population - Population - Households - Density		
		Non slum population - Population - Households - Density		
		Floating population Population per day (if available from tourism department)		
		Decadal Population growth rate (in %)		
3	Land Use information and Development			
3.a	Land Use pattern	Land use classification in the city– [Area under residential, commercial, Institutional, open areas, slums (available / not available)]		
		Details of Population and projected growth		
3.b	Maps	Map depicting the existing land use - residential, commercial, Institutional, slums, green cover, open land etc. (available / not available)		
B	TECHNICAL INFORMATION: Information regarding Sanitation infrastructure facilities			
4	Access to Toilet (Ward-wise information to be made available)			

4.a	Individual Toilet	- Number of Sanitary toilets - Number of insanitary toilets (single pit, twin pit, insanitary, dry, pour flush) - septic tank without soak away		
	Community toilet	- Number of households dependent - Number and Location of toilet blocks - Number of seats per block - Functional status - Septic tank without soak away		
	Public toilet and urinals	- Number and Location of toilet & urinal blocks - Number of seats per block - Functional status - Septic tank without soak pit		
	Open defecation	Location of OD spots		
4.b	Operation and maintenance	Notified rates of User charges (Rs) - For community toilets - For public toilets		
		Responsible agency for O&M [By in-house arrangement or outsourced]		
		Complaint redressal system		
4.c	Service Level Benchmark (100%)	Access to toilet (% coverage)		
4.d	Maps	Map depicting the Location of public and community toilets (if not available, the same to be depicted)		
C	INSTITUTIONAL AND GOVERNANCE			
5	Institutional framework			
5.a	Regulatory Framework	Whether Municipal Sanitation Bye Laws notify tariff for sanitation services. (details)		
		State Sanitation Strategy (available / not available)		
5.b	Institutional Arrangement	Roles and Responsibilities for dealing with sanitation services.		
5.c	Governance and Reforms -	Implementation of e-governance in ULBs (available / not available)		
D	CAPACITY ENHANCEMENT:			
6	Capacity Management			

6.a	Human Resource Development	Details of the personnel engaged in sanitation services along with roles and responsibilities.		
		Outsourcing of staff and services (available / not available)		
E	GAP ANALYSIS:			
7.a		Analyze the projected requirement of sanitation infrastructure/facilities in 2025,		
7.b		Identify the available infrastructure in good condition		
7.c		Analyze the gap in various areas and suitably club as part of a project/DPR ⌚ IHHL/CT/PT/Urinals		

Funding requirement				
Total fund required	Central share	State share	ULB share	Others (pl specify)

ANNEX 3B: CITY SANITATION ACTION PLAN (CSAP): FOR USED WATER MANAGEMENT

(As referred in Chapters 2 and 7)

(To be filled in only for Cities below 1 Lakh Population, as referred in Chapters 2 and 6)

S. No	Description	Particulars	Detailed description	Remarks
A	GENERAL INFORMATION			
1	Location and Physical aspects			
1.a	Location	Name of the City, District, State		
1.b	Physical Aspects	Municipal Area in sq. km and Class of Town		
		Number of Wards		
		Geographical description -Hilly area, river, Environmental sensitive area etc.		
1.c	Maps	Map depicting administrative boundaries, roads and railways, water bodies, Important landmarks etc. (if not available, to be prepared)		
		Topo-Sheet (ref: Survey of India, Scale - 1:50000)(if not readily available, get it)		
2	Demography and Growth pattern			
2.a	Population	Census data - Latest census data and previous census data (population projection for 2025, 2040 and 2055)		
		Slum population - Population - Households - Density		
		Non slum population - Population - Households - Density		
		Floating population Population per day (if available from tourism department)		
		Decadal Population growth rate (in %)		
3	Land Use information and Development			
3.a	Land Use pattern	Land use classification in the city– [Area under residential, commercial, Institutional, open areas, slums (available / not available)]		
		Details of Population and projected growth		

3.b	Maps	Map depicting the existing land use - residential, commercial, Institutional, slums, green cover, open land etc. (available / not available)		
B	TECHNICAL INFORMATION: Information regarding Used water infrastructure facilities			
4	Details of existing sewage infrastructure			
4.a		Brief description of existing sewage infrastructure in the town: (i) TPs (ii) FSTPs (iii) Existing sewers (iv) Drains (v) Number of cesspool tankers (govt./private) (vi) Funding Agencies & amount		
5	Sewage Management			
5.a	Sewage Generation	Estimated sewage generation (in MLD for 2025, 2040, 2055)		
5.b	Collection and Conveyance	NETWORK COVERAGE - Present population covered with sewerage network - Present population uncovered with sewerage network		
		SEPTAGE Status of scheduled desludging (by ULB/Licensed operator)		
		Drainage - Number of drains with length & material of construction etc. (width more than 75 cm) carrying sewage into the surface water body or open land - Status of drains with or above 75 cm width (covered/uncovered) - Number of outfall locations along with estimated quantity of sewage (dry weather) being discharged into surface water body or open land		
		Outfall location Mention the location of outfall points (river/ Natural drain/surface water body/ open land)		
5.c	Treatment (Septage, Used water)	Used water treatment (including cotreatment) – Are the used water treatment facility available (yes/no) If 'yes' Treatment technology and Capacity (MLD)		

		• Current capacity utilization-under/over (MLD) • Quantity of used water treated (MLD) • Quantity of septage co-treated (KLD) • Reuse (treated used water, sludge, biogas) Information along with respective quantity				
		Septage treatment Are the septage treatment facility available (yes/No) – If ‘yes’ • Quantity of septage to be treated (KLD) • Treatment technology and Capacity (KLD) • Current utilization - under/over (KLD) • Reuse (treated used water, sludge, biogas) Information along with respective quantity				
5.d	Operation and Maintenance	For existing used water collection, conveyance and treatment facility • Responsible agency • Household sanitation tariff – Monthly (Rs) • Conservancy tax as part of property tax • O&M cost for the conveyance and treatment facility (Rs) • Cost recovery (%)				
		For existing septage collection, conveyance and treatment facility • Responsible agency • User charges for desludging, conveyance and disposal per household (Rs) • O&M cost for the treatment facility (Rs) • Cost recovery (%)				
5.e	Service Level Benchmark - Present	Indicators	Benchmark	Before implementation of project	After the implementation of project	
		Coverage of Sewerage Network	100%			
		Collection efficiency of Sewerage Network	100%			
		Adequacy of Sewage Treatment Capacity	100%			
		Quality of sewage treatment	100%			
		Extent of Reuse and Recycling of Sewage	20%			

		Extent of cost recovery in sewage/used water management	100%				
		Efficiency in redressal of customer complaints	80%				
		Efficiency in Collection of sewage / used water Charges	90%				
		Access to toilets	100%				
		Scheduled desludging	100%				
		Notified tariff for desludging					
5.f	Maps	Map depicting the coverage of existing sewer network coverage and onsite system					
		Access to toilets					
		Scheduled desludging					
		Notified tariff for desludging					
C	INSTITUTIONAL AND GOVERNANCE						
6	Institutional framework						
6.a	Regulatory Framework	Whether Municipal Sanitation Bye Laws notify tariff for sanitation/sewage services (details)					
		State Sanitation Strategy (available / not available)					
6.b	Institutional Arrangement	Roles and Responsibilities for dealing with sanitation/ sewage services.					
6.c	Governance and Reforms -	Implementation of e-governance in ULBs (available / not available)					
D	CAPACITY ENHANCEMENT:						
7	Capacity Management						
7.a	Human Resource Development	Details of the personnel engaged in sanitation services along with roles and responsibilities.					
		Outsourcing of staff and services (available / not available)					
E	GAP ANALYSIS:						

8.a		Analyze the projected requirement of used water infrastructure/facilities in 2025,		
8.b		Identify the available infrastructure in good condition		
8.c		Analyze the gap in various areas and suitably club as part of a project/DPR • Sewer network • Septage conveyance • STP cum FSTP • Recycle and reuse potential		
F	CONCLUSION	On above lines identify various DPRs/ plan for projects related to • I&D and STP cum FSTP • Sewer network • Storm water drainage system • Recycle and reuse projects • Gap in human resources for execution and O&M etc.		

Funding requirement				
Total fund required	Central share	State share	ULB share	Others (pl specify)

Roadmap for achieving Mission outcomes

Target/Year	2021-22	2022-23	2023-24	2024-25	2025-26	Remarks
Cities ODF++						
Cities Water+						

ANNEX 4: STATEWISE ALLOCATION OF FUNDS

(As referred in Chapter 4)

For toilet construction and SWM components, the allocation of funds has been done on the basis of weighted average of urban population of State/ UT to total urban population of statutory towns, and area of State to total area of country. For Used water management, the allocation of funds has been done on the basis of total population of < 1 lakh ULBs in State / UT to total population of < 1 lakh ULBs in the country. All population figures are based on Census 2011 figures.

Sl No	Name of State/ UT	Central share allocation (₹ in crores) for:					
		Toilet construction	Used water Management	Solid Waste Management	IEC	CB	
		Floating fund	State allocation				
1	ANDAMAN AND NICOBAR ISLANDS	0.5	0.0	5.5	1.7	0.9	
2	ANDHRA PRADESH	47.1	694.1	458.1	142.4	71.6	
3	ARUNACHAL PRADESH		1.0	79.3	33.2	10.3	5.2
4	ASSAM		14.2	315.7	118.3	36.8	18.5
5	BIHAR		37.9	666.5	341.1	106.0	53.3
6	CHANDIGARH		3.3	0.0	28.5	8.9	4.5
7	CHHATTISGARH		19.1	414.6	200.1	62.2	31.3
8	DADRA AND NAGAR HAVELI & DAMAN and DIU	1.1	23.1	4.8	1.5	0.7	
9	DELHI		52.8	0.0	436.1	135.6	68.1
10	GOA		2.9	56.9	12.3	3.8	1.9
11	GUJARAT		83.0	806.9	701.4	218.0	109.6
12	HARYANA		28.5	284.4	226.9	70.5	35.4
13	HIMACHAL PRADESH		2.2	101.0	36.5	11.3	5.7
14	JAMMU & KASHMIR		10.3	226.4	131.7	40.9	20.6
15	JHARKHAND		25.6	236.8	174.9	54.4	27.3
16	KARNATAKA		76.1	1,128.6	709.3	220.5	110.8
17	KERALA		51.4	521.7	205.8	64.0	32.2
18	LADAKH		0.7	34.1	19.0	5.9	3.0
19	MADHYA PRADESH		64.7	1,229.5	617.5	192.0	96.5

20	MAHARASHTRA		163.8	1,484.8	1,438.1	447.1	224.7
21	MANIPUR		2.5	58.7	23.9	7.4	3.7
22	MEGHALAYA		1.9	40.8	16.8	5.2	2.6
23	MIZORAM		1.8	48.1	22.2	6.9	3.5
24	NAGALAND		1.8	60.3	19.0	5.9	3.0
25	ODISHA		22.6	491.0	209.8	65.2	32.8
26	PUDUCHERRY		2.7	25.5	20.4	6.3	3.2
27	PUNJAB		33.5	589.0	294.2	91.5	46.0
28	RAJASTHAN		54.9	916.1	541.8	168.4	84.6
29	SIKKIM		0.5	9.8	6.2	1.9	1.0
30	TAMIL NADU		112.5	1,999.7	807.4	251.0	126.1
31	TELANGANA		43.9	463.1	381.9	118.7	59.7
32	TRIPURA		3.1	48.4	23.0	7.2	3.6
33	UTTAR PRADESH		143.4	2,117.2	1,235.9	384.2	193.1
34	UTTARAKHAND		9.8	203.0	89.0	27.7	13.9
35	WEST BENGAL		93.8	507.9	577.7	179.6	90.3
	RETAINED AT MOHUA			-		790.2	782.4
	TOTAL	405	1,215	15,883	10,168	3,951	2,371

ANNEX 5: OUTPUT-OUTCOME INDICATORS

(As referred in Chapter 10)

Outputs (2021-26)			Outcomes (2021-26)			Year-wise Target	
Output	Indicator(s)	Target	Year-wise Target	Outcome	Indicator (s)		Target
1. Sustainable Sanitation							
1.1 Construction of Community Toilets/ Public Toilets (2,70,000 seats)	Total number of CT/PT constructed	Number of CT/PT constructed	Y1:	ODF+ Status (All cities declared ODF+)	Total number of Cities/towns declared ODF+	Number of Cities/towns declared ODF+ in the country	Y1:
			Y2:				Y2:
			Y3:				
			Y4:				
			Y5:				
1.2 Construction of Urinals (50,000 nos.)	Total number of Urinals Constructed	Number of Urinals Constructed	Y1:				Y3:
			Y2:				Y4:
			Y3:				Y5:
			Y4:				
			Y5:				
1.3 Construction of IHHL (50,000 nos.)	Total number of IHHL constructed	Number of IHHL Constructed	Y1:				Y4:
			Y2:				Y5:
			Y3:				
			Y4:				
			Y5:				
2. Solid Waste Management							
2.1 Upgradation of system of Segregation, collection and transportation (All Cities)	Total number of cities with upgraded segregation, collection and transportation system	Number of cities with upgraded segregation, collection and transportation system / number of wards covered by 100% source	Y1:	Garbage Free Ratings for the Cities (All cities)	Total number of Cities/Towns Declared at least 3 star rated	Number of Cities/Towns Declared at least 3 star rated	Y1:
			Y2:				
			Y3:				
			Y4:				

लक्ष्य है कचरा मुक्त शहर - प्रधानमंत्री श्री नरेंद्र मोदी

1.	Used water Management (only for cities with population of below 1 lakh)

लक्ष्य है कचरा मुक्त शहर - प्रधानमंत्री श्री नरेंद्र मोदी

	Number of Workshops conducted such as Regional/ National level Workshops, Star Rating Garbage free protocol, NIUA workshops on Sanitation and SWM, etc.	Number of ULBs covered with Capacity Building (All cities)	Y1:	Improvement in skills, knowledge and capacities, leadership development and change management competencies developed of ULB officials connected with implementation of Mission, through Workshops, Seminars, Trainings, etc.	Number of ULB officials trained	Cover all ULB officials	Y1:	
			Y2:				Y2:	
			Y3:				Y3:	
			Y4:				Y4:	
			Y5:				Y5:	
			Y2:					
			Y3:					
			Y4:					
			Y5:					

ANNEX 6: CHECKLIST FOR PROPOSAL PREPARATION

(As referred in Chapter 6,7)

Check List for Scrutiny for Solid Waste Management Projects seeking funding from Swachh Bharat Mission (Urban) 2.0

1.	Name of the Project:		
2.	Name of the ULB, District, State/UT:		
3.	No. of wards of the ULB:		
4.	Present Status of SWM:		
	a.	MSW generation in TPD:	
	b.	Per capita waste generation:	
	c.	% of wards practising source segregation:	
	d.	% of wards practising door to door collection:	
	e.	Quantity of MSW being processed in TPD:	
	f.	% of waste being processed:	
	g.	% of waste dumped /landfilled	
5.	Waste Quantification with the waste streams of the current year records		
	Waste streams	Current year (TPD)	% of MSW
	Wet Waste		
	Dry Waste		
	Sanitary Waste		
	Domestic Hazardous Waste		
	Other Waste(Drain Silt & Inert)		
6.	Details of existing/on-going/proposed scheme in the project area (Please enter brief details project wise)		
7.	Details of existing design capacity of processing facilities (including under construction,tendered,non-functional)		
	Waste Processing Unit	Exiting Design Capacity	
	Composting Plants		
	Bio-methanation Plants		
	Material Recovery facility		
	Material Recovery facility with RDF		
	Waste to Electricity		
8.	Population Details		
	2011 Census	Current Year 2021	Projected 2025
9.	Implementing Agency:		

10.	Operating Agency:																																																																					
11.	City Sanitation Plan (CSP) status: Approved/Not approved																																																																					
12.	Recycling agencies whether/ which have in partnership with ULBs etc. (brief details to be mentioned)																																																																					
13.	Status of Solid Waste Management Service Level Benchmarks <table border="1"> <thead> <tr> <th>S. No.</th> <th>Indicator</th> <th>Unit</th> <th>Baseline before project</th> <th>Reliability of measurement</th> <th>After project</th> <th>Reliability of measurement</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Household level coverage of SWM services</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Efficiency of collection of municipal solid waste</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Extent of segregation of municipal solid waste</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Extent of municipal solid waste recovered</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Extent of scientific disposal of solid waste</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Efficiency in redressal of customer complaints</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>Cost recovery of SWM services</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>Efficiency in collection of charges</td> <td>%</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							S. No.	Indicator	Unit	Baseline before project	Reliability of measurement	After project	Reliability of measurement	1	Household level coverage of SWM services	%					2	Efficiency of collection of municipal solid waste	%					3	Extent of segregation of municipal solid waste	%					4	Extent of municipal solid waste recovered	%					5	Extent of scientific disposal of solid waste	%					6	Efficiency in redressal of customer complaints	%					7	Cost recovery of SWM services	%					8	Efficiency in collection of charges	%				
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14.	Per capita waste generation : <table border="1"> <tr> <td>ULBs > 10 lakh population@550 gm/capita:</td> </tr> <tr> <td>ULBs 1 lakh -10 lakh (both included) population@450gm/capita:</td> </tr> <tr> <td>ULBs <1 lakh population@300gm/capita:</td> </tr> </table>							ULBs > 10 lakh population@550 gm/capita:	ULBs 1 lakh -10 lakh (both included) population@450gm/capita:	ULBs <1 lakh population@300gm/capita:																																																												
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15.	Projected Quantity of Waste Generation for 2025 in TPD as per waste/capita: TOTAL:																																																																					

16.	Projected Waste generation streams for year 2025:			
	Waste stream	Fraction	Proposed waste generation in TPD	% of MSW
	Wet Waste	55%		
	Dry Waste	35%		
	Domestic Hazardous waste	Minor		
	Other Waste(Drain Silt & Inert)	10%		
	To SLF	20%		

17.	Details of Proposed Components			
	a. Proposed capacity of processing facilities for Integrated Municipal Solid Waste Management (as applicable):			
	Waste Processing Unit	Exiting Design Capacity (inclusive of the under construction/ tendered/non-functional /approved units)		Required Capacity
	Composting Plants			
	Bio-methanation Plants			
	Material Recovery facility with RDF			
	Waste to Electricity			
	b. Transfer Stations (applicable only for ULBs with >5 lakh population)			
	Existing capacity in (TPD)		Proposed Capacity in (TPD)	
	Wet Waste	Dry Waste	Wet Waste	Dry Waste
	c. Sanitary Landfill (SLF)			
	Proposed quantity of waste sent to SLF (restricted to 20% of total MSW) in TPD			
	Proposed capacity of SLF (Tonnes/Cum/day)			
	Proposed design Year of SLF -5 years tenure			
	d. Dumpsite Remediation(applicable only if Dumpsite is existing)			
	Total quantity of existing legacy waste			
	Details of Proposed method for remediation			
	Cost of per tonne of waste remediation proposed			
	End uses of remediated dumpsite area			
	Indicative Uses/ Utilization of Segregated Material			
	e. Construction and Demolition Waste Management (applicable only for ULBs >5 lakh and NCAP cities)			
	C&D waste generation in TPD (restricted to 50gm/capita of total MSW generated)			
	C&D waste generation (Bulk waste generators) (@ 25% of the total C&D waste generation)+20% extra in TPD			
	Total Processing Capacity proposed in (TPD)			

	f. Mechanical Road Sweepers (applicable only for ULBs >5 lakh and NCAP cities) * Rate of mechanical sweeping 80 Km-Lane per Shift <table border="1"> <tr> <td>Proposed length of Road to be swept/day (only 4 or more lane roads)</td><td></td></tr> <tr> <td colspan="2">Detailed calculation of mechanical sweeping required in Lane-KMs (please attach)</td></tr> <tr> <td>Proposed no. of Machines required to sweep the length</td><td></td></tr> <tr> <td>No. of Machines currently operating /existing</td><td></td></tr> <tr> <td>Current requirement of machines (nos)</td><td></td></tr> </table> *All mechanical sweepers are to be procured from GEM portal or centralized State agency.	Proposed length of Road to be swept/day (only 4 or more lane roads)		Detailed calculation of mechanical sweeping required in Lane-KMs (please attach)		Proposed no. of Machines required to sweep the length		No. of Machines currently operating /existing		Current requirement of machines (nos)																	
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18.	Estimated Cost-Abstract: <table border="1"> <tr> <td>Estimated cost (Cost to be furnished for the proposed components)</td><td>Per tonne cost as per Estimate</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Estimated cost (Cost to be furnished for the proposed components)	Per tonne cost as per Estimate																								
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19.	Outcomes of the project: <table border="1"> <tr> <td></td><td>Door to door collection service (% of wards)</td><td>Source segregation (% of wards)</td><td>Processing of waste(% of total MSW generated)</td></tr> <tr> <td>Proposed</td><td></td><td></td><td></td></tr> </table>		Door to door collection service (% of wards)	Source segregation (% of wards)	Processing of waste(% of total MSW generated)	Proposed																					
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20.	Operation & Maintenance cost and revenue generation details (O & M Framework – existing & proposed) <table border="1"> <tr> <th rowspan="2"></th><th colspan="2">User charges (in Rs. Per MT)</th></tr> <tr> <th>Existing</th><th>Proposed</th></tr> <tr><td>Residential</td><td></td><td></td></tr> <tr><td>Commercial</td><td></td><td></td></tr> <tr><td>Institutions</td><td></td><td></td></tr> <tr><td>Industries</td><td></td><td></td></tr> </table> <table border="1"> <tr> <th></th><th>Existing (average of last 5 years)</th><th>Proposed</th></tr> <tr><td>Annual O & M cost (Rs. in lakhs)*</td><td></td><td></td></tr> <tr><td>Annual Revenue generation (Rs. in lakhs)</td><td></td><td></td></tr> </table> *Detailed proposed Annual O&M cost to be attached		User charges (in Rs. Per MT)		Existing	Proposed	Residential			Commercial			Institutions			Industries				Existing (average of last 5 years)	Proposed	Annual O & M cost (Rs. in lakhs)*			Annual Revenue generation (Rs. in lakhs)		
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Annual O & M cost (Rs. in lakhs)*																											
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21.	Land Acquisition: (a) Whether entire land required for all components of the project in possession of the Implementing Agency: (b) If not, time required for acquiring land: (c) Whether Right of Way required from other Government Agencies such as Railways, Defence and State Departments. (d) Whether Resettlement and Rehabilitation involved? If yes, whether R&R project/plan approved and funds allocated?																										
22.	Whether the required Statutory clearances (to be identified) have been obtained – yes/no																										

Certificate (to be furnished by ULB/ State officials):

Certified that the facts and figures mentioned have been duly verified and found to be correct

Signatures of responsible (Officer 1/ULB) (Officer 2/ULB) (Officer 3/State)
officers

Check List for Preparation of Sewerage and Faecal Sludge & Septage Management (FSM) DPR seeking funding under Swachh Bharat Mission (Urban) 2.0

S.no.	Description				Remarks
1.	Introduction				
i.	Background (Description of SBM 2.0, State and City)				
ii.	Location and connectivity of City				
iii.	Temperature, Rainfall and climate details of the city				
iv.	Topography and natural resources				
v.	Soil strata				
vi.	Depth of water level				
vii.	Socio economic conditions:				
	S.no.	Census Year	Population	Decadal growth rate	
viii.	Objectives of the project (describe the goals of SBM 2.0 which are targeted through proposed project)				
ix.	Structure of the report indicating contents/chapters				
2.	Existing Infrastructure of the town				
i.	Status of water supply in the town (describe the coverage, supply hours, quality, supply rate etc.)				
ii.	Status of sewerage system of city (describe the existing sewerage zones, existing infrastructure etc.)				
iii.	Status of existing drainage system of the city (describe the number and capacity of the drains, outfall location etc.)				
iv.	City road network				
v.	Details of important surface water bodies, rivers natural drains etc. (intended recipient of sewage)				
3.	Population Projection and sewage generation				
i.	Population projection (for base-2025, Intermediate-2040,and ultimate-2055 year)				
ii.	Ward wise population projections				
iii.	Water demand				
iv.	Sewage generation				
4.	Gap Analysis and prioritization				
i.	Necessity of the project				
ii.	Population covered under this project				
iii.	Water demand and sewage generation of the project area				
iv.	Key map of project area within ULB map				
5.	Proposed project components				
i.	Sewerage System and its components (DPR should contain the following) • Zoning under the project area • Proposed sewerage network (summary of pipes including length, material, dia etc.) • STP – design, capacity, technology, design year, input and output parameters, please mention if implementation in modules is considered)				

	- Details of Sewage pumping station, if any - Length of trunk sewer - Provision of reuse and recycle of treated used water - Life cycle cost assessment of treatment plant																																								
ii.	Faecal sludge and septage management components - Population covered under FSM component - STP cum FSTP – design scheme, capacity, technology, design year, input and output parameters, please mention if implementation in modules is considered) - Provision of reuse and recycle of treated used water - Number of cesspool tankers proposed along with desludging schedule																																								
iii.	Interception & diversion works and Strengthening of drainage system - Proposed length of drains (having width more than 75 cm) identified for strengthening and improvement - Methodology for identification - Number and capacity of the drains identified to be tapped - Details of pumping arrangement, if any - Details of outfall locations which are covered under this project - Details treatment facility if proposed separately																																								
6.	Operation and Maintenance																																								
i.	General																																								
ii.	O&M components - Direct manpower cost - Direct electricity/energy cost - Direct chemical cost - Direct expenses on repairs of STP/FSTP/Pumps/sewer conveyance and others. - Direct cost on mechanical devices																																								
iii.	Operation & Maintenance cost and revenue generation details (O & M Framework – existing & proposed) <table border="1"> <thead> <tr> <th></th><th colspan="2">Sewerage Tariff (in Rs.)</th></tr> <tr> <th></th><th>Existing</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>Residential</td><td></td><td></td></tr> <tr> <td>Commercial</td><td></td><td></td></tr> <tr> <td>Institutions</td><td></td><td></td></tr> <tr> <td>Industries</td><td></td><td></td></tr> </tbody> </table> Please specify whether it is included as conservancy tax within property tax. <table border="1"> <thead> <tr> <th></th><th>Existing (average of last 5 years)</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>Annual O & M cost (Rs. in lakhs)</td><td></td><td></td></tr> <tr> <td>Annual Revenue received (Rs.in lakhs)</td><td></td><td></td></tr> </tbody> </table> Please specify in case of desludging of septic tanks. <table border="1"> <thead> <tr> <th></th><th colspan="2">User fee (in Rs.)</th></tr> <tr> <th></th><th>Existing</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>By ULB</td><td></td><td></td></tr> <tr> <td>By Private operator</td><td></td><td></td></tr> </tbody> </table>		Sewerage Tariff (in Rs.)			Existing	Proposed	Residential			Commercial			Institutions			Industries				Existing (average of last 5 years)	Proposed	Annual O & M cost (Rs. in lakhs)			Annual Revenue received (Rs.in lakhs)				User fee (in Rs.)			Existing	Proposed	By ULB			By Private operator			
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	Existing	Proposed																																							
By ULB																																									
By Private operator																																									

iv.	Service level benchmarking				
	Indicators	Benchmark	Before implementation of project	After the implementation of project	
	Coverage of Sewerage Network	100%			
	Collection efficiency of Sewerage Network	100%			
	Adequacy of Sewage Treatment Capacity	100%			
	Quality of sewage treatment	100%			
	Extent of Reuse and Recycling of Sewage	20%			
	Extent of cost recovery in sewage/ used water management	100%			
	Efficiency in redressal of customer complaints	80%			
	Efficiency in Collection of sewage / used water Charges	90%			
	Access to toilets	100%			
	Scheduled desludging	100%			
	Notified tariff for desludging				
7.	Environmental Assessment of the project				
i.	Environmental compliance requirements				
ii.	Applicable legislations				
iii.	Identified environmental impacts from the project				
iv.	Mitigation and enhancement measures				
v.	Environmental budgetary provision				
vi.	conclusion				
8.	Training and Institutional				
i.	Proposed capacity building works under the project				
ii.	Details of Institutional framework, if proposed				
9.	Implementation schedule				
10.	Statutory permissions/ Clearances				
11.	Cost Estimates				
i.	Cost basis for proposed works (component-wise) (as far as possible State schedule of rate are to be considered)				
ii.	O&M cost				
iii.	Provisional sum				
iv.	Cost for environmental and social management				
v.	Cost for capacity building works				
vi.	Per Capita Cost(overall &component-wise)				

ANNEX 7: IEC ACTION PLAN

(As referred in Chapter 8)

1. City Profile

1	Name of the ULB:	
2	Name of the District, State/ UT:	
3	No. of Municipal Zones in City:	
4	No. of wards in the ULB:	
5	Population & Households in the ULB as per 2011 Census:	
	Population	Households
6	Population & Households in the ULB as per current scenario:	
	Population	Households
7	Projected Population & Households in the ULB @2025	
	Population	Households

2. Proposed IEC and Behavior Change interventions by the ULB

Proposed IEC initiatives					
Key themes/messages of the Mission amplified through the initiatives		Details of the activities undertaken (including communication materials developed and communication platforms used)	Target audience	Expected outcomes/ desired behavior change	Timeline
1	SWM (Source Segregation, Home Composting etc) / Waste Water Reuse etc	Advertisements in local print and electronic media			
2		Running radio jingles on the local FM/community radios			
3		Swachhagrahis conducting meetings with the ward members (specify number of meetings)			
4		Swacchata Captains facilitating meetings with key opinion influencers (specify details of			

		influencers engaged)			
5		Workshops for engaging school children (specify the number of locations)			
6		Communication collaterals put up at strategic locations across the ward (specify the number of locations)			
Proposed Initiatives for citizen engagement					
Number of Swacchata leaders and Swacchagrahis identified for formal nomination					
Number of Citizen Sanitation Committees proposed to be set up					

3. Financial overview

S. No	Description of the activity	Tentative expenditure (in ₹)	ACA under SBM-U 2.0	State Govt. Funds	ULB Funds	Other Funds (PPP, others)
1	Development of outdoor collaterals					
2	Advertisements in print, electronic media and FM/community radios					
3	Monthly workshops/events with local community members and representatives					
4	Other activities					
Total tentative expenditure (in ₹)						

ANNEX 8: CAPACITY BUILDING ACTION PLAN

(As referred in Chapter 9)

1. City Profile

1.	Name of the ULB:	
2.	Name of the District, State/ UT:	
3.	No. of Municipal Zones in City:	
4.	No. of wards in the ULB:	
5.	Population & Households in the ULB as per 2011 Census:	
	Population	Households
6.	Population & Households in the ULB as per current scenario:	
	Population	Households
7.	Projected Population & Households in the ULB @2025	
	Population	Households

2. Training for Capacity Building of identified Stakeholders

S. No	Identified Stakeholders	Total Number	Areas for Training
1.	Municipal Officials		
3.	Technical staffs/PHE officials		
4.	NGOs, Educational and other institutes identified		
5.	Institutes identified for conducting CB Training		
6.	Master Trainers Identified for conducting CB Training activities		
Before beginning with trainings, ULBs are to conduct a Training Needs Analysis to identify relevant gaps and design appropriate programs and modules for imparting the training. ULBs are to attach the following details in the CB Action Plan: - Quarterly training calendar carrying a description of activities as well as targeted groups - Training plan to also detail method of delivery of training (virtual, in person, e-learning, etc) - Monitoring and Evaluation Framework - Name and contact details of stakeholders who will attend the training			

3. Training for Skill Development of the identified stakeholders

S. No	Identified Stakeholders	Total Number	Areas for Training
1.	Sanitation workers and SafaiMitras identified for Skill Development trainings		
2.	Training Institutes identified for conducting Skill Development trainings		
3.	Master Trainers identified for conducting Skill Development trainings		

Before beginning with trainings, ULBs are to conduct a Skills Gap Analysis to identify relevant gaps and skill needs to design appropriate modules for imparting the training.

ULBs are to attach the following details in the CB Action Plan:

1. Quarterly training calendar carrying a description of activities as well as targeted groups
2. Training plan to also detail method of delivery of training (virtual or in person)
3. Monitoring and Evaluation Framework

4. Financial Overview

S. No.	Activities to be Conducted (Representative List)	Tentative Expenditure (in ₹)	CA under SBM-U 2.0	State Govt. Funds	ULB Funds	Other Funds (PPP, others)
1	Training Needs Analysis					
2	Trainings for Municipal Officials					
3	Trainings for Technical/PHE Officials					
4	Trainings for NGOs/CSOs					
5	Skills Gap Analysis					
6	Trainings for sanitation workers and SafaiMitras					
7	Development of Manuals/documentation					
Tentative Total Expenditure (in ₹)						

ANNEX 9: FEATURES OF ASPIRATIONAL TOILETS

(As referred in Chapter 5)

Features of aspirational toilets
All toilet seats and urinals clean and usable at all times
Wash basin(s) clean and usable at all times
Availability of water
Adequate ventilation facility (vents, slanted glass slats and/or exhaust fan)
Premises are well lit at all times, both within and outside , with each seat having its own light point, and all light points functional
Functional bolting arrangements on all doors
Untreated faecal sludge/septage and sewage from the toilet is not discharged and/or dumped in drains, open areas or water bodies
Toilet floor is swept and mopped at all times
Mirrors , if available, are clean and polished
Available and regularly cleaned (covered) litter bins , with bins available with each toilet seat
Available and operational soap/soap dispenser
Usable taps and fittings, with no leakage OR water tank in or outside the structure with water available in it at all times during opening hours
Gender-segregated, distinct entrances for males and females, if both facilities available in single block
Entrance/ accessibility (like ramp, stairs) to toilet block is barrier free, including those for specially abled persons
Premises are visible to passersby, with clear signage, and the area within 3m from each direction of the structure is not encroached by unauthorized construction and vendors
Staff is provided with necessary supplies of consumables, cleaning equipment, protective gear and inventory, and there is no stock out for longer than 24 hours
Roster being maintained for regular cleaning and maintenance and a caretaker is on duty at all times during open hours

Public/Community Toilet is visible on Google Maps toilet locator as 'SBM Toilet'
Name and contact details of the following are displayed prominently - Supervisor, Supervisor's agency and area Sanitary Inspector (Contact number will be checked whether it is working or not)
Complaint registration and redressal mechanism (Swachhata App, Swachhata helpline 1969) is in place and is functional, with all complaints, maintenance issues or incidents resolved within 24 hours of registration
Air freshener applied
Walls and floors are clean and stain / graffiti free
Low height toilets/Indian toilets and basins for children
Plants / shrubs in the vicinity of toilet complex are well maintained
Space earmarked for advertisement for revenue generation
Hand dryer / paper napkin available
Ladies' toilets have vending machine for sanitary napkins
Incinerator facility available for disposal of used sanitary napkins for toilet having > 10 seats and also to the toilets adjacent to women college and hostels
Toilet identification number, name of ULB under which jurisdiction toilet is covered, ward number and maintenance authority prominently displayed for each toilet block
SMS based feedback with number displayed on which SMS has to be sent
Bathing facility available

ANNEX 10: BASIS OF COSTING FOR SWM COMPONENTS, CT/PTs and USED WATER COMPONENTS

(As referred in Chapter 4)

Costing for Solid Waste Management

S. No.	Component	Nos/Population	Unit Cost	Total Cost Rs in Crore	Central Share	State/ULB Share	Private Share
1	Solid Waste Management (through MRF, transfer stations, processing facilities, remediation of legacy waste dumpsites through Biomining & Scientific Landfilling, etc.).	42.86 Crores	Rs 605/ Capita	25930	16336	7675	1919
2	C&D Waste Processing	17.14 Crores	Rs 35/ Capita (Rs 3.5 Crore/10 Lakh Population)	600	378	111	111
3	Mechanized Sweeping for combating air pollution	Total of 816 machines	Rs 55 lakh per machine (average)	449	283	166	0
4	Collection & transportation including modernization of existing system.	42.86 Crores	Rs 300/ capita	12858	0	2572	10286

Cost Estimate of SWM requirements proposed under SBM 2.0 (Aggregated for all ULBs)							
			Qty, TPD	Rate	Unit	Amount	
I. MSW Treatment Plants				Rs. Crore		Rs. Crore	
a.	Compost Plants		30658.38				
		say	30,700.00	11.50	100 tpd	3,531	
b.	Bio-Methanation Plants		15,063.96				
		say	15,100	18.00	100 tpd	2,718	
c.	MRF-cum-RDF Plants		45,152.98				
		say	45,200	8.50	100 tpd	3,842	
d.	WtE Plants (RDF based) (Electricity)		9,647.23				
		say	9,700	18.00	100 tpd	1,746	
					Subtotal	11,837	
II. SLF facilities for all ULBs			40,938.05				
		say	41,000	6.50	100 tpd	2,665	
III. Transfer Stations for ULBs > 5 lakh population							
	120358.63 TPD	40%	48,143.45				
		say	48,200	4.50	100 tpd	2,169	
V. C&D Waste management in all 102 NA cities + remaining 5 lakh cities							
	10409	say	10,000	6.00	100 tpd	600	
VI. Dumpsites remediation in all ULBs- 3 Categories							
a	>10 Lakh	754 Lakh MT	754	550.00	Per MT	4147	
b	1-10 lakh	519 Lakh MT	519	550.00	Per MT	2855	
c	<1 lakh	400 Lakh MT	400	550.00	Per MT	2200	
					Subtotal	9,202	
					TOTAL	26,472	
					Contingencies & rounding off (0.22%)	58	
					GRAND TOTAL	26,530	

Rupees Twenty-Six thousand Five hundred Thirty Crore only

Costing calculations for CT/PTs:

The following section provides estimate of a 5 seat PT prepared by M/s Sulabh International which has constructed and running thousands of PTs across the country. The estimate was prepared for Bareilly Nagar Nigam in UP in current FY 2019-20 following Schedule of Rates for FY 2018-19. Considering even one year cost escalation @6%, per seat cost works out to approx Rs 1.69 lakh. This justifies the cost of Rs 1.5 lakh per seat considered for Mission period 2021-2026.

Cost of 5 seat PT complex (2018-19 rate) = Rs 7,96,515

Cost escalation for one year @ 6% per annum = Rs 8,44,306

Cost per seat of PT/CT = Rs 1.69 lakh

This justifies the cost per seat adopted at Rs 1.5 lakh.

NAGAR NIGAM BAREILLY PUBLIC WORKS DEPARTMENT Detail Measurement Form									
Name of work: 01 सीट जीएसएम एवं 02 सुविधा का निर्माण कार्य									
Sl.	S.I. No.	Particulars	No.	Measurement			Qty.	Unit	Rate
				L	B	Relt			Amount
1	251	Excavation in foundation in ordinary soil (Loam, Clay or sand) including lift upto 1.50 mt and load upto 30m and including filling, watering and ramming of excavated earth into the trenches or into the space between the building and the sides of foundation trenches or into the plinth and removal and disposal of surplus earth as directed by the Engineer-in-charge upto a distance of 30.0m from the foundation trenches - excluding royalty (S.I. No 251).							
		Totlet	2	8.35	0.50	0.85	7.10	Cum	
			6	3.29	0.50	0.85	8.39	Cum	
			4	1.50	0.50	0.85	2.55	Cum	
		Totlet	1	3.50	2.50	2.50	21.88	Cum	
							39.92	Cum	135.00
2	273	Providing and laying cement concrete in 1:1.2 (1 cement : 6 Part sand : 12 Brick ballast 40 mm gauge) and curing complete, including cost of form work in foundation and floor-completion of the work as per direction of E/I. (S.I No. 273)							
			2	8.35	0.50	0.15	1.25	Cum	
			6	3.29	0.50	0.15	1.48	Cum	
			4	1.50	0.50	0.15	0.45	Cum	
		W/c	4	1.50	1.29	0.10	0.72	Cum	
		Handscaped	1	1.50	1.29	0.10	0.18	Cum	
		Unusal	1	1.50	1.29	0.10	0.18	Cum	
		C.T.Room	1	2.40	2.40	0.10	0.58	Cum	
		Passage	2	0.90	3.81	0.10	0.69	Cum	
		Floor	1	2.88	1.20	0.10	0.34	Cum	
		Task	1	3.50	2.50	0.10	0.88	Cum	
							6.75	Cum	3230.00
3	305 (b)	First class B/W in 1:4 Cement:Sand mortar in F.P including supply of all material labour T & P etc required for proper completion of work SI No 305							
		Upto G.L.	2	8.35	0.46	0.150	1.15	Cum	
			2	8.35	0.35	0.450	2.63	Cum	
		Above G.L. to F.F.	2	8.35	0.35	0.450	2.63	Cum	
			6	3.29	0.46	0.350	1.36	Cum	
			6	3.29	0.35	0.450	3.11	Cum	
		Above G.L. to F.F.	6	3.29	0.35	0.450	3.11	Cum	
			4	1.50	0.46	0.150	0.41	Cum	
			4	1.50	0.35	0.450	0.95	Cum	
		Above G.L. to F.F.	4	1.50	0.35	0.450	0.95	Cum	
		Task	1	3.00	2.00	0.075	0.45	Cum	
			2	3.00	0.23	2.00	2.76	Cum	
			2	1.46	0.23	2.00	1.34	Cum	
		Partitions	1	1.46	0.115	1.700	0.29	Cum	
							21.14	Cum	5010.00
4	285	RCC 1:1.5:3 with cement c. sand stone grit of 20 mm gauge in higher beam excluding supply of reinforcement with its bending but including its bending & fixing with supply of all material labour T & P etc. required for proper completion of the work. SI No 285							
		Totlet	2	8.55	0.35	0.35	0.88	Cum	
			6	3.29	0.35	0.35	1.04	Cum	
			4	1.50	0.35	0.35	0.32	Cum	

		Partition	1	1.46	0.115	0.15	0.03	Cum			
							2.23	Cum	8150.00	18159.82	
5	305+310	First class B/w in 1:4 Cement C/sand mortar in 5-7% including supply of all material labour T & P etc required for proper completion of work SI No. 305+310									
		Toilet	2	8.35	0.23	2.40	9.22	Cum			
			2	3.83	0.23	2.40	8.23	Cum			
			2	3.83	0.115	2.40	2.11	Cum			
			2	2.63	0.23	2.40	2.90	Cum			
			1	2.40	0.23	2.40	1.32	Cum			
		Deduct WC Door	-4	0.75	0.23	2.05	-1.41	Cum			
		Deduct Handicapped Door	-1	1.20	0.23	2.05	-0.57	Cum			
		Deduct Front Shelter passage	-1	2.00	0.23	2.20	-1.01	Cum			
		Urinal Porosin	-1	1.50	0.23	2.40	-0.83	Cum			
		Parapet	2	8.35	0.115	0.45	0.86	Cum			
			2	4.06	0.115	0.45	0.42	Cum			
							17.25	Cum	5330.00	91940.28	
6	584	12 mm thick plaster in 1:4 cement & sand mortar over brick work minimum thickness not less than 10 mm including all supply of material , Labour T&P etc SI No. 584									
			4	8.35	-	2.40	80.16	Sqm			
			4	3.83	-	2.40	36.77	Sqm			
			4	3.83	-	2.40	36.77	Sqm			
			4	2.63	-	2.40	25.25	Sqm			
			2	2.40	-	2.40	11.52	Sqm			
			-8	0.75	-	2.05	-12.30	Sqm			
			-2	1.20	-	2.05	-4.92	Sqm			
			-2	2.00	-	2.20	-8.80	Sqm			
			-2	1.50	-	2.40	-7.20	Sqm			
			4	8.35	-	0.45	15.03	Sqm			
			4	4.06	-	0.45	7.31	Sqm			
							179.58	Sqm			
		Tank	2	3.00	-	2.00	12.00	Sqm			
			2	1.46	-	2.00	5.84	Sqm			
			2	1.46	-	1.75	4.96	Sqm			
							22.80	Sqm			
							202.39	Sqm	175.00	35417.55	
7	279 (i)	Providing and laying cement concrete in 4:2:1 of not less than strength of M -150 stone ballast (20 mm nominal size), approved coarse sand and cement , curing complete including of cost of form work in foundation and floors -completion of the work as per direction of the E / L.									
		WC	4	1.50	1.25	0.075	0.94	Cum			
		Handicapped	1	1.50	1.25	0.075	0.14	Cum			
		Urinal	1	1.50	1.25	0.075	0.14	Cum			
		C.T.Room	1	2.40	2.43	0.075	0.43	Cum			
		Passage	2	0.90	0.83	0.075	0.52	Cum			
		Floor	1	2.86	1.20	0.075	0.26	Cum			
		Tank	1	3.50	2.50	0.075	0.66	Cum			
							2.67	Cum	7190.00	19216.71	
8	284	RCC 1:2:4 with cement sand stone grit of 20 mm gauge in slab of culvert excluding supply of reinforcement with its bending but including its binding & fixing with supply of all material labour T & P etc. required for proper completion of the work. SI No. 284									
		Tank	1	3.00	2.00	0.20	1.20	Cum			
		Toilet Q=L	1	8.35	4.75	0.12	4.76	Cum			
							5.96	Cum	7740.00	46126.53	

9	B04	Mild steel or Iron fix plate work such as reinforced concrete brought to proper shape as necessary including its bending with supply of steel with overlaps & wastage also required for proper completion of the work as per E/S SI No. 304.	@ 1.25%	5.85	Qty	6250.00	36548.50	
10	D.S.R. No. B.31	Providing and fixing fit quality ceramic glazed wall tiles conforming to IS : 15622. [thickness to be specified by the manufacturer], of approved make , in all colours - shades except burgundy , bottle green, black of any size as approved by Engineer -in-Charge, in skirting , risers of steps and radius , over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm , including pointing in white cement mixed with pigment of matching shade complete As per D.S.R. No. B.31.						
		4	8.33	-	2.10	79.14	Sqms	
		4	3.83	-	2.10	32.17	Sqms	
		4	3.83	-	2.10	32.17	Sqms	
		4	2.63	-	2.10	22.09	Sqms	
		2	2.40	-	2.10	10.08	Sqms	
		-8	0.75	-	2.10	-12.60	Sqms	
		-2	1.20	-	2.10	-5.04	Sqms	
		-2	2.00	-	2.10	-8.40	Sqms	
		-2	1.50	-	2.10	-6.30	Sqms	
						134.32	Sqms	
						6.72	Sqms	
		Add 5% for Bonders				141.03	Sqms	
						(33) 20	145305.06	
11	As per D.A.R. II.41.2	Providing and laying of 600x600 mrs vitrified floor tile in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make , in all colours and shades , laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete . As per D.A.R. II.41.2						
		W.C	4	1.50	1.20	-	7.20	Sqms
		Handicapped	1	1.50	1.20	-	1.80	Sqms
		Urinal	1	1.50	1.20	-	1.80	Sqms
		C.T.Room	1	2.40	2.40	-	5.76	Sqms
		Passage	2	0.90	3.83	-	6.89	Sqms
		Floor	1	2.86	1.20	-	3.43	Sqms
							26.89	Sqms
							(11) 00	29843.46
12	As per D.S.R. No. I3.26	Placing 2mm thick plaster of paris putty for proper completion of the work as per Direction of E / S all complete As per D.S.R. No. I3.26						
						As per Item No. 06	179.58	Sum
						Deduct area from item No. 12	-141.03	Sum
		Roof	1	8.33	4.75	-	39.66	Sum
							78.21	Sum
							(1) 00	8828.94
13	As per D.S.R. No. I3.43.1	Applying one coat of cement primer of approved brand and manufacturer on wall surface as per D / S R. No I3.43.1						
						As per Item No. 06	78.21	Sqms
							78.21	sqms
							34.90	2658.33

14	649+650	Two coat oil bound distemper with primer, using approved colouring materials of buff, blue, grey or Jabour and T & P etc. Required for proper completion of work. S.I. No. 649+650	Area same as Item No. 01				78.21	Sqm	91.00	7117.36
							78.21	Sqm		
15	470 (i)	S/F of 32mm thick flush doors commercial quality conforming to IS 2202 Part I (1983) including fixing of wooden cleats and stoppers and including fixing of hinges, bolts, lock, handle, spring fitting with necessary screws to be supplied departmentally S.I. No. 470 (i)	4	0.75	-	2.05	6.15	Sqm		
			1	1.20	-	2.05	2.46	Sqm		
							8.61	Sqm	1400.00	12054.00
16	1b+2+3(ii)	Two coat painting with synthetic enamel paints on new plain surface with primer of approved quality of colour by E.I.	8	0.75	-	2.05	12.30	Sqm		
			2	1.20	-	2.05	4.92	Sqm		
							17.22	Sqm	75.00	1291.50
17	As per D.S.R. 17.1.1	Providing and fixing of White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required As per D.S.R. 17.1.1	3	-	-	-	3.00	each	3354.00	10062.00
18	CPWD 2012 1.8.1	Wiring for 5amp light point / fan point/ call well point / exhaust fan point with 1.5 sqmm FR PVC insulated copper conductor single core cable in surface /recess medium class PVC conduct with piano type switch phenolic laminated sheet, Suitable type MS box. CPWD 2012-1.8.1	8	3.00	-	-	24.00	Point	416.00	9984.00
							24.00	Point		
19	CPWD 2012 1.13	Wiring for 15amp plug point with 4x 45 sqmm FR PVC insulated copper conductor single core cable in surface/recess medium class PVC conduct with piano type switch phenolic laminated sheet, Suitable type MS box. CPWD 2012-1.13	8	1.00	-	-	8.00	Point	268.00	2144.00
							8.00	Point		

29	502 e	Fabrication of Mild steel or iron work of grill and stair case railing (When not included in an overall rates) brought to required form including supply of steel and its wastage including cost of bolts, nuts and wastage etc. and there fixing if required for proper completion of work (S.I.No.502c)	4	0.75	-	2.05	6.15	Sqm		
			1	1.20	-	2.05	2.46	Sqm		
							8.61	Sqm		
				8.61	@	20kg/sqm	172.20	kg		
		For Main gate					300.00	kg		
							472.20	kg		
						or	4.72	qtl	6590.00	31117.98
30	As per D.S.R. no. 8.2.2.2	P/L 18mm thick gang saw cut mirror Granite of any colour and shade area of slab over 0.50sqm. As per D.S.R. no. 8.2.2.2								
		For partition in Urinal	1	0.45	-	1.00	0.45	Sqm		
							0.45	Sqm	3110.00	1399.50
31	-	P/F of CPVC pipes								
(i)	-	15mm nominal outer dia pipes	1	12.00	-	-	12.00	Rmt		
							12.00	Rmt	270.00	3240.00
(ii)	-	20mm nominal outer dia pipes	1	30.00	-	-	30.00	Rmt		
							30.00	Rmt	296.40	8892.00
32	D.S.R. 17.7.2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls wherever require. White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap as per D.S.R. 17.7.2	1	2.00	-	-	2.00	No.	2751.30	5502.60
									Total	704880.25
									Add 12 % G.S.T.	84585.63
									Add 1 % for CESS	7048.80
									G.Total	796514.68

20	D.S.R. 17.3.1	Providing and fixing W.C. pan with ISI marked white solid plastic seat and lid white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. As per D.S.R. No. 17.3.1	2	-	-	-	2.00	No.	4409.00	8818.00
21	D.S.R. 17.4.1	Providing and fixing white vitreous china flat back or wall corner type tipped front urinal basin of 430x260x350 mm or 340x410x265 mm min respectively. As per D.S.R. No. 17.4.1	2	-	-	-	2.00	No.	3354.00	6708.00
22	D.S.R. No. 17.28.1.2	P/W of 40 mm dia waste pipe for sink or bath basin including P.V.C. waste all complete as per D.S.R. 17.28.1.2	4	-	-	-	4.00	No.	77.00	308.00
23	D.S.R. 18.48	Placing on terrace polyethylene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fitting and the base support of tank. As per D.S.R. 18.48	2	500.00	-	-	1000.00	ltr	6.00	6000.00
24	as per D.S.R. No. 18.51.2	Providing and fixing 15 mm nominal bore C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. As per D.S.R. No. 18.51.1	8	-	-	-	8.00	No.	472.00	3776.00
25	as per D.S.R. No. 18.52.1	Providing and fixing 15 mm nominal bore C.P. brass stop-cock (concealed) of standard design and of approved make conforming to IS:8931. As per D.S.R. No. 18.52.1	8	-	-	-	8.00	No.	523.00	4184.00
26	as per D.S.R. No. 18.53.1	Providing and fixing 15mm nominal bore C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931. As per D.S.R. No. 18.53.1	6	-	-	-	6.00	No.	456.00	2736.00
27	as per D.S.R. No. 18.18.1.1	S/R of brass ball valve of approved quality of 15mm nominal bore as per D.S.R. No. 18.18.1.1	6	-	-	-	6.00	No.	275.00	1650.00
28	-	P/W, jointing and testing of ISI marked UV stabilized UPVC pipes for soil, waste and vent Type B as per IS: 13592	4	1.50	-	-	6.00	Rmt		
(i)	-	110 mm nominal outer dia pipes	4	10.00	-	-	40.00	Rmt	342.00	2052.00
(ii)	-	150 mm nominal outer dia pipes	2	10.00	-	-	20.00	Rmt	415.00	8300.00
(iii)	-	P/W of CP jabs	4	-	-	-	4.00	Rmt	100.00	400.00

Costing calculations for Used water management

The Central share (as per eligible funding pattern) for STPs and I&D drains, for each notified town in the State/UT, will be governed by the following maximum per capita allocations:

Class of town	Maximum limit of per capita allocation for STP and I&D (including Central share + State/UT/ULB share)
II	₹3,000
III	₹2,000
IV	₹2,000
V	₹2,000
VI	₹2,000
For NE & hilly States	Class II - ₹4,000
Class III and below- ₹3,000	

This will ensure that allocation of funds is uniform across all eligible ULBs. However, depending on needs at ground, States/UTs may sanction higher per capita funds for some town's projects, within the State/UT's overall funds allocation for used water component (Central + State share), provided that State/UT ensures that all the towns in Class II to VI are also covered with suitable sewage collection and treatment facilities.

In no case should allocated used water funds for all notified towns in the state be utilized in some selected towns while others are left unattended. In such a scenario, Central share allocation would be proportionately restricted commensurate to the number of towns attended.



एक कदम स्वच्छता की ओर

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आज इतने दशकों बाद,
स्वच्छता आन्दोलन ने एक बार
फिर देश को नए भारत के सपने के साथ जोड़ने का
काम किया है। और ये हमारी आदतों को बदलने
का भी अभियान बन रहा है और हम ये न भूलें कि
स्वच्छता यह सिर्फ एक कार्यक्रम है, स्वच्छता ये
पीढ़ी दर पीढ़ी संस्कार संक्रमण की एक जिम्मेवारी
है और पीढ़ी दर पीढ़ी स्वच्छता का अभियान चलता
है, तब सम्पूर्ण समाज जीवन में स्वच्छता का
स्वभाव बनता है।



'मन की बात' में प्रधानमंत्री नरेंद्र मोदी, 26 सितम्बर 2021



**Ministry of Housing and Urban Affairs
Government of India**

Clean Air, Clean Water, Clean Land