









Swachh Bharat Mission Paving the way for a Clean India

7th International workshop on Decentralized Domestic Wastewater Treatment in Asia

September 2019

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Background







India has spent over **USD 20 Bn** on Sanitation projects over 20 years, before 2014



Total Sanitation Campaign (1998), National Urban Sanitation Policy (2008) undertaken before 2014

yet...



Over 18% Urban households in India lacked individual toilets & ~12% households still defecated in open / Only ~6% coverage of public & community toilets



Over 24% young girls dropped out due to lack of toilets at home or school / ~30% schools don't have separate toilet for girls



Only 18% of Municipal Waste was scientifically processed with the remaining dumped in landfills. Only 47% wards had 100% door-to-door collection



India was losing over USD 54 Billion per year due to inadequate sanitation & waste Management infrastructure (health related, tourism) - 6.4% of GDP or ~\$48 per capita

Swachh Bharat Mission (Clean India Mission) launched in 2014 to break India's Sanitation and Waste Management status quo...

Objectives





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- 1 Eradication of Open Defecation in all Statutory towns
- 2 100% Scientific Solid Waste Management in all Statutory towns

Implementation Components



Individual household toilets



Community toilets/Public toilets



Solid waste management



Information, Education and Communication (IEC)
Capacity Building (CB)

6.6 million IHHL
0.5 million CT/PT seats

Awareness Outreach Advocacy

Estimated cost of implementation: INR 62,009 crore (USD 8700 million)

Government of India share: INR 14,623 crore (USD 2100 million)

Achievements in SanitationUrban India will become ODF by 2nd October 2019

Puducherry

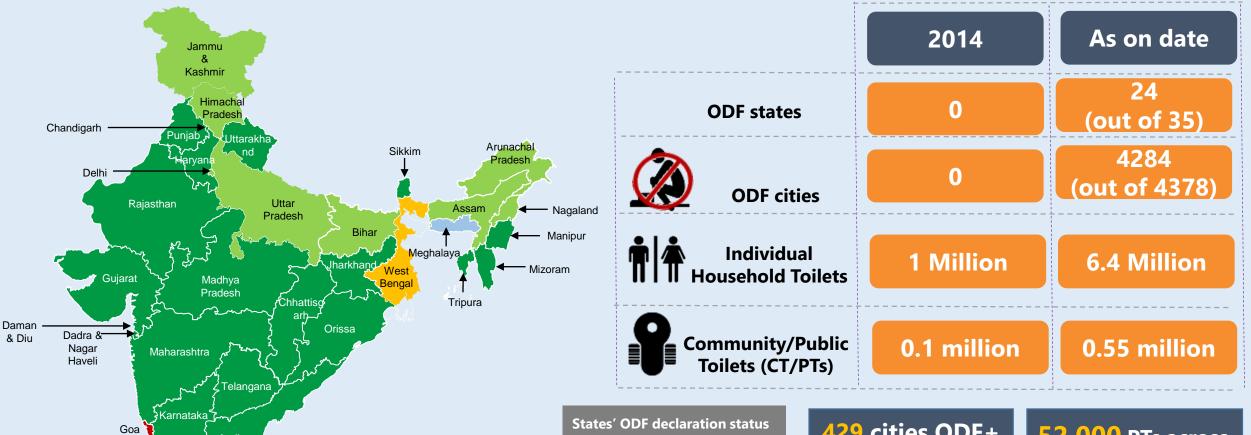
Tamil

Nadu

Kerala







0 – 20 %

20 – 40 %

40 – 75 %

75 – 99 %

100 %

Andaman and Nicobar Islands

429 cities ODF+
170 cities
ODF++

52,000 PTs across
2300 cities on
Google maps

Going Beyond ODF: Robust Protocols for Sustainable Sanitation







ODF+, **ODF++**, **Water Plus protocols**

SBM ODF+

ODF, plus no open urination, and Cleanliness and functionality of Community and Public Toilets

Till date, 429 cities have been certified ODF+

SBM ODF++

ODF+, plus safe containment, processing and disposal of fecal sludge and septage

Till date, 170 cities have been certified ODF++

SBM Water Plus

ODF++, plus no untreated wastewater discharged into the open environment



Launched on 13th August 2019







Star Rating Protocol for Garbage Free Cities

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



Protocol for
STAR RATING
OF GARBAGE
FREE CITIES

— *******
Making Cities Oarbage Free

A **star rating framework** in consultation with cities to ensure no visible garbage and enhanced waste processing in all cities/towns was launched on 20th January 2018, and the modified protocol with graded scoring was launched on 28th June 2019.

Third party certification for all 4 star ratings i.e. at 1, 3, 5 and 7 star.

The rating is based on **following key components:**

- Door-to-Door Collection
- Segregation at source
- Sweeping of public, commercial and residential areas (no visible eyesores on streets)
- Waste Storage Bins, Litter Bins
- Scientific Waste Processing, Scientific Landfilling and C&D Waste Management
- Waste reduction through on-site processing of wet waste

- Bulk Waste Generators compliance
- User Fees, Penalties, Spot Fines for littering and Enforcement of Ban on Plastic
- Citizen grievance redressal and feedback system
- Eradication of crude dumping of garbage and dump remediation
- Cleaning of storm drains & surface of water bodies, and screening of Nallahs
- Visible beautification in the city with a focus on it's sustainability

3 cities have been certified with **5-Star Rating**



53 cities have been certified with 3-Star Rating

Single metric Measurable Achievable Rigorous verification Targeted towards outcomes

SWACHH SURVEKSHAN (Sanitation Survey)

Largest Sanitation Survey in the world





IMPLEMENTATION ACCELERATOR
MOVING THE NEEDLE FROM SANITATION
ACCESS TO SUSTAINABILITY

- Annual cleanliness survey to foster a spirit of healthy competition among cities aimed at accelerating sanitation service delivery
- First ever Pan India Sanitation Survey impacting around 400 Mn citizens citizens-capturing the interest of municipal officials in 4000+ cities
- Results & outcomes supported by verifiable, realistic and achievable indicators
- Triangulated approach + third party certifications lends credibility to the evaluation process



ICT INITIATIVES Transforming Service Delivery













TOILET LOCATOR ON GOOGLE MAPS WITH TOILET MONITORING DASHBOARD

SWACHH MANCH

SWACHHATA APP

1969 HELPLINE

52,000+ toilet blocks from 2300+ cities uploaded on Google maps, including 500+ toilets covered by NHAI 1.07 lakh events and
2.53 lakh photos have
been uploaded on Swachh
Manch, covering
participation of 100
lakh+ citizens

An effective tool for citizens' grievance redressal

160 lakh Resolved

Complaints, 93% resolution rate

National helpline to address queries from citizens around Swachh Bharat Mission

4.92 lakh+ calls have been **answered** till date

Status of Wastewater Treatment

Status of Wastewater Collection and Treatment

Coverage with Sewerage Network – limited to 40%

Treatment of Wastewater – limited to 30%

Limited number of Wastewater Treatment Plants – 1200, with poor operational efficiency

Status of Faecal Sludge and Septage Collection and Treatment

Dependence on On-Site Sanitation (without scheduled emptying) -60% (> 4.5 crores)

Treatment of Septage – - nii (predominantly discharged in open and water bodies)

JOHKASOU in India

Ministry of Environment Japan (MOEJ) in Association with OECC-Japan & HECS-DAIKI-Chennai -- Technical Seminar on "Wastewater Treatment and Hygiene Management towards Achievement of Sustainable Developmental Goals", Chennai.

Dr. J.R. Moses (CEO, HECS), launched Johkasou STPs in early 2018 about 50 no's of HECS-DAIKI Johkasou STPs having been successfully installed across the Country

JOHKASOU

Indian Medical Association (IMA) collaborated with Telangana Hospitals & Nursing Homes Association (THANA) -- Seminar on "State of Art Hecs-Daiki STP Plant implementation in Hospitals", Koti

Administrative Staff College of India (ASCI) has come forward to install at INR 2 million for waste-water treatment plant at the social welfare residential school at Madikonda

Application of JOHKASOU



Best Possible Onsite Treatment Technology ~~~ Optimize the Capital Cost ~~~~ Increase in Installation

