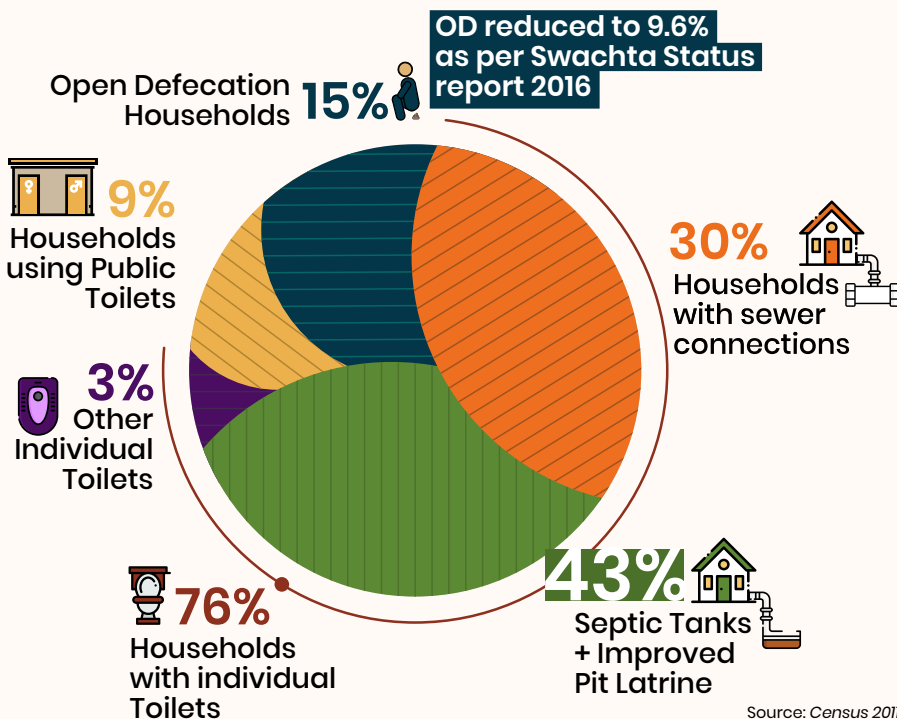


Tamil Nadu Urban Sanitation Support Programme

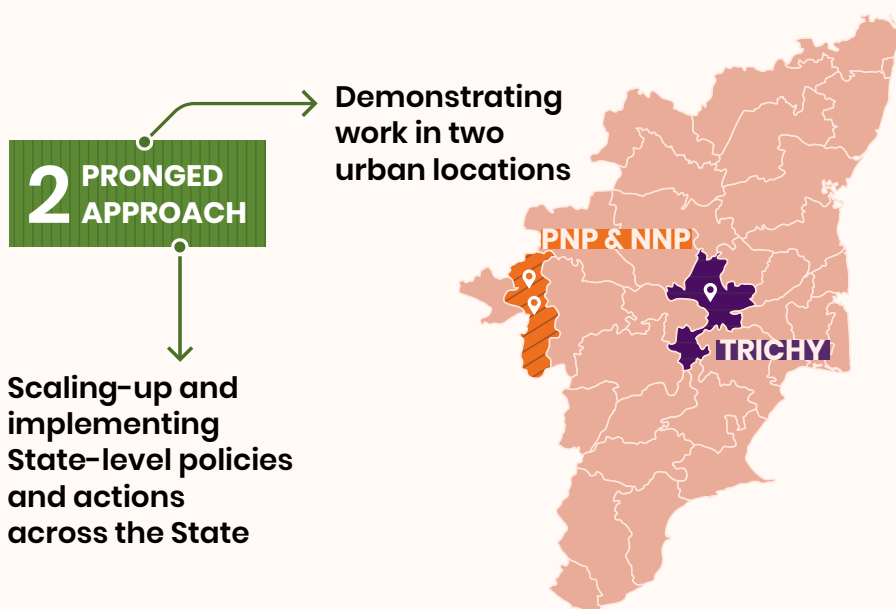


OVERVIEW

Tamil Nadu is one of the most urbanised States in India, with an urban population of 49 per cent. According to the 2011 census, about 75 per cent of its households had individual households toilets, 9 per cent used public toilets, and 16 per cent defecated in the open. In Class 1 Cites, the coverage of household toilets connected to sewers is as high as 50 per cent, but in smaller cities septic tanks are the commonly prevalent. Taking due cognisance of the predominance of on-site sanitation systems in the State, Government of Tamil Nadu (GoTN) has committed to improving urban sanitation in mission mode, and issued the Operative Guidelines for Septage Management across the State in September, 2014.



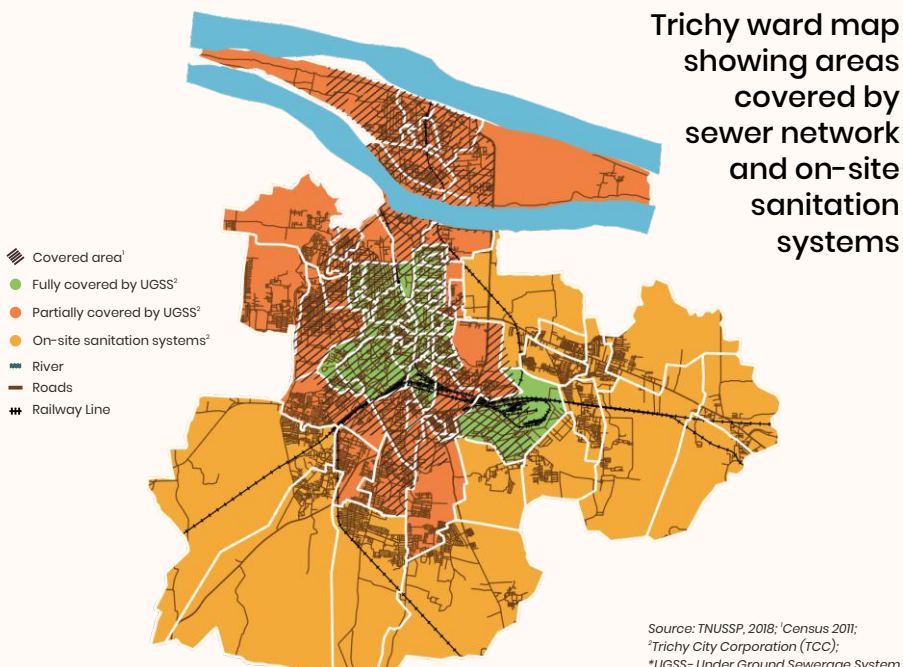
The Tamil Nadu Urban Sanitation Support Programme (TNUSSP) was launched in the year to aid the government in its Tamil Nadu Sanitation Mission. The programme aims to improve urban sanitation in the State by demonstrating innovations in two urban locations —Periyanaicken Palayam and Narasimhanaicken Palayam Coimbatore and Trichy city — and then scaling it up across the State. The project is scheduled for a period of five years and is being implemented in two phases.



TNUSSP functions within the Government of Tamil Nadu's Municipal Administration and Water Supply (MAWS) Department. The Bill and Melinda Gates Foundation (BMGF) has set up a Technical Support Unit (TSU) at the State level, with two sub-TSUs each in Coimbatore and Trichy. The TSU is run by the Indian Institute for Human Settlements (IIHS) with other partners.

TNUSSP PROFILE

TNUSSP works with two model urban locations in Coimbatore and Trichy. Trichy is the 4th largest corporation in Tamil Nadu, and has been ranked among the top few cities with improved sanitation since 2010. Trichy is partially seweraged and will provide the basis for state-wide scaling up in other city corporations. As part of TNUSSP and CWIS, Fecal Sludge Management (FSM) solutions are under implementation, and existing STPs are being strengthened for co-treatment to ensure Trichy is 100 per cent sanitation secure. Trichy has also been selected as one of the cities under the City-Wide Inclusive Sanitation (CWIS) initiative by the Bill and Melinda Gates Foundation. CWIS programme aims to - transform overall sanitation outcomes in Trichy city with a focus on the needs of the poor, the vulnerable, and women and girls.



In Coimbatore district, TNUSSP has chosen two model demonstration towns viz, – Periyanaicken Palayam (PNP) and Narasimhanaicken Paalayam (NNP). Households here are mostly dependent on on-site sanitation systems with 67 percent (in PNP) and 71 percent (in NNP) connected to septic tanks. These are currently being emptied on – demand by private de-sludging operators. TNUSSP is implementing the Full Sludge and Septage Management (FSSM) as an economical and effective means to achieve total sanitation.

OTHER LOCATIONS

To demonstrate the resources required to scale up sanitation solutions across the State, a cluster of urban locations comprising Madhuranthagam Municipality and the adjacent Karunguzhi TP in Kancheepuram district were identified. Fecal waste generated in Karunguzhi and Madhuranthagam are treated by a treatment plant.

TNUSSP has developed a fecal sludge testing and screening protocol for Karunguzhi and works with the Directorate of Town Panchayats to provide training for town panchayat officers, desludging operators and masons on safe sanitation. The TNUSSP has designed an application – Karunguzhi De-sludging Tool – to implement the process of scheduled cleaning and emptying of household septic tanks by the Karunguzhi Town Panchayat.



FOCUS AREAS

At the State level, the TSU is carrying out a comprehensive review of the relevant laws and regulations. This review will be the premise to prepare a State level Action Plan to address gaps along the entire sanitation chain (with particular focus on on-site systems) viz. provision of individual and community toilets, upgradation of existing toilets, creation and expansion of de-sludging services treatment plants, and re-use/recycling facilities and services.

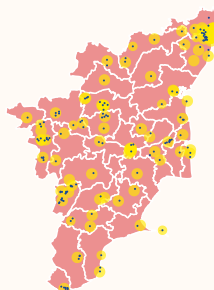
Additionally, a review of different technologies, tools and methods (along the entire sanitation value chain) is being carried out. The TSU is also providing technical assistance to various Fecal Sludge Management (FSM) initiatives being implemented in other cities in the State. Behaviour Change and Communication is also an important component of TNUSSP's focus areas.

MILESTONES ACHIEVED

State Investment Plan to Scale FSM Treatment Solutions

A State Investment plan (SIP) was prepared to support the implementation of the Operative Guidelines. The plan focused primarily on treatment facilities for fecal sludge management (FSM), estimated the investment required to ensure full coverage of sanitation across 663 Urban Local Bodies (ULBs) in a phased manner.

Phase I & Phase II

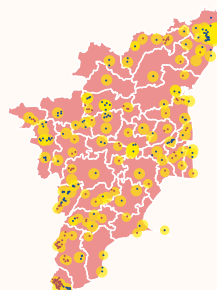


Phase I
Co-treatment at existing STPs

Population coverage:
103,48,467

Cumulative:
40%

Phase I, Phase II & Phase III



Phase II
Co-treatment at proposed STPs

Population coverage:
51,15,163

Cumulative:
60%

Phase III
Treatment at new FSTPs

Population coverage:
36,90,113

Cumulative:
75%

● Phase I & Phase II STP
● Phase III FSTPs
● 10 km distance area
Source: TNUSSP, 2018

Co-Treatment

Optimum utilisation of unused capacity in Sewage Treatment Plants (STPs) through co-treatment is one of the key ways through which the State aims to achieve its FSM targets. ULBs are being

guided to ensure better access and improvement to decanting facilities, and to implement and institutionalise testing protocols in the existing 63 STPs.



Improvements in the decanting station at Anna Stadium

Regulated De-sludging Model

To ensure safe collection, handling and transportation of FS, TNUSSP has promoted a regulated de-sludging model in the State and developed a Standard License Agreement, which seeks to regulate and streamline the collection and conveyance process across the State.

Fecal Sludge Treatment Plants

The GoTN focused on the implementation of Fecal Sludge Treatment Plants (FSTPs) across the State and funding was approved for the construction of 60 FSTPs.

TNUSSP has been involved in the design and construction of the upcoming FSTPs. The team is currently providing Quality Assurance (QA) support in the construction and commissioning of FSTPs.

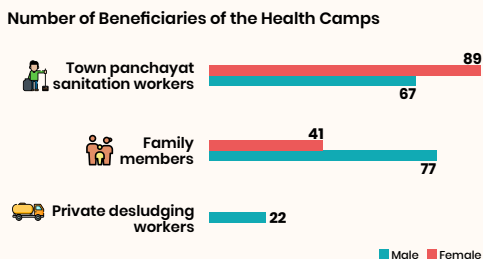


FSTP under construction at Kangeyam

PROGRAMMES OF INCLUSION

For Sanitation Workers

The TSU has engaged with sanitation workers across Trichy and Coimbatore with the aim to improve their standards of living and employment. TNUSSP has developed a profile of sanitation workers in both the cities to understand the critical issues and challenges faced by them. A directory of social welfare schemes has been prepared to help sanitation workers avail the benefits.



TNUSSP also conducts regular health check-ups for sanitation workers, to which they are entitled by law. So far, 1,000 sanitation workers in Trichy, and nearly 750 workers and 200 of their family members in Coimbatore have benefitted from these health camps. TNUSSP is in the process of institutionalising health camps with the help of the government and private sector.

For Schoolchildren

In collaboration with school authorities in both Trichy and Coimbatore, TNUSSP has been promoting WASH practices among students and teachers using interactive methods. They are being taught the importance of safe water, sanitation, and hygiene practices with a special focus on FSM. Improvements to the sanitation infrastructure in schools have been taken up in parallel with the trainings.



School sanitation programme

Gender

TNUSSP's gender strategy for the State was drawn from specific analyses conducted to understand differential sanitation needs, gendered roles and decision-making powers. TNUSSP has developed the Ungal Thozhi module for menstrual health management (MHM). It aims to disseminate knowledge and information to safely manage menstruation with confidence and dignity. TNUSSP is planning to propagate this module among school children and women in the community.



Skill development training for women

In an effort to create livelihood opportunities for women, a women's group has been formed to set up a soap-making unit and a tailoring unit to help them earn an income, and become economically self-sufficient and independent. As a response to COVID-19 pandemic, the group has been trained to make masks.

MEDIA

THE HINDU

THE TIMES OF INDIA

THE NEW INDIAN EXPRESS

THE WIRE

THE FEDERAL

CITIZEN MATTERS

The NEWS Minute

தினமணி

தனது தந்தை

தனது நம்

தினமலர்

KEY PEOPLE



Kavita Wankhade

**Team Leader – TNUSSP
Project Director– CWIS
kwankhade@ihs.co.in**

Kavita works at the intersection of natural and built environment and the socio-economic systems. Her recent work focuses on issues of urban sustainability, particularly in infrastructure systems, and urban form. She has 15 years of experience working with a wide range of institutions including the Water and Sanitation Program of the World Bank, the Rockefeller Foundation, the UK Department for International Development, UNDP and IDFC. Her work has involved engagement with various state governments in India. She is currently involved in two projects, one that examines the drivers of urban form, and another assessing sustainability of JNNURM.



KV Santhosh Ragavan,

**Co-Team Leader –
TNUSSP
santhoshkv@ihs.ac.in**

Santhosh Ragavan has experience and interest in integrated management for sustainable development focusing on water, wastewater, waste, sanitation, air pollution, health and energy.

In his work experience spanning over 21 years, he has developed and implemented waste treatment systems for municipal, industrial, and agricultural waste.

Santhosh has worked on water and sanitation, indoor air pollution and health, ambient air pollution and health, energy and water demand-side management in agricultural sector and environmental assessment industries.



Niladri Chakraborti,
Team Leader – CWIS
nchakraborti@iihs.ac.in

Niladri Chakraborti is a development professional with around 16 years of hands on experience in the domain of WASH and public health.

During his career span of more than a decade he has worked with international non-profits viz. CARE, Water For People, national non-profits like Population Foundation of India (PFI) and corporates like MedicaSynergie Pvt.Ltd, IPE Global Ltd.

He has opulent experience of working in large scale development project funded by USAID and DFID. Tripura, Sikkim, West Bengal, Bihar, Odisha are the few of the states where he has worked intensively prior joining TNUSSP.

OUR PARTNERS





www.tnussp.co.in

f @TNUSSP

tnussp@iihs.ac.in



To reach out for further details, contact-

S Senthilir,

Specialist, IIHS

9789678675

ssivalingam@iihs.ac.in

Floor 7A, Chaitanya Exotica,
24/51 Venkatnarayana Road,
T Nagar, Chennai 600 017. India

+91 44 6630 5500

+91 44 6555 6590