





TOTAL SANITATION IN SHIMLA, VARANASI & RAIPUR

FOR GTZ ASEM

Consortium for DEWATS
Dissemination
(CDD Society) Bangalore



CEPT Research & Development Unit (CRDU), Ahmedabad



Alchemy Urban Systems (P) Ltd. (Alchemy), Bangalore



CONTENTS

- The Consortium
- Local Partners
- Approach and Methodology
 - Key Learning's from Previous Experiences
 - The Approach
 - The Methodology

THE CONSORTIUM







LOCAL PARTNERS FOR THE CSPS

Universal Training & Research Institute (UTRI) (SHIMLA)





Centre for Rural Entrepreneurship and Technical Education (CREATE) (VARANASI)

Community Advancement And Rural Development Society (CARDS) (RAIPUR)



NETWORK PARTNERS



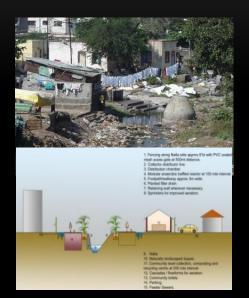
APPROACH AND METHODOLOGY

BACKGROUND

- City Sanitation Plans to be prepared as per the National Urban Sanitation Policy
 - NUSP's objectives
 - Awareness Generation and Behavior Change
 - Open Defecation Free Cities
 - Integrated City-Wide Sanitation
 - The CSP is to be socially inclusive and environment friendly

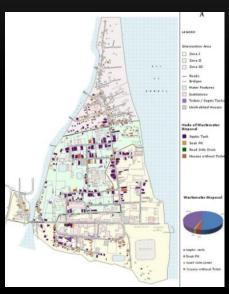


LEARNING'S FROM PREVIOUS EXPERIENCES



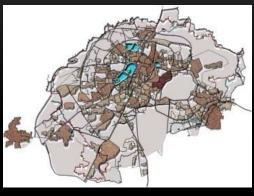
PUNE

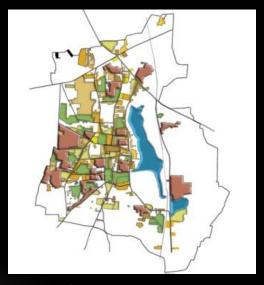




TRANQUEBAR







DODABALLAPUR

KOLHAPUR

THE APPROACH

- ACHIEVING 100% SANITATION
 - Primary Indicators as mandated by National Urban Sanitation Policy
 - Every citizen has access to a toilet & the city is 'Open Defecation Free'
 - All the sewage generated is collected, treated and disposed off safely
 - Secondary Indicators (additional)
 - All the solid waste generated is collected, treated and disposed off safely
 - All water bodies and drainages are preserved and kept clean
 - All the storm water drains are kept clean.

THE APPROACH

BUILDING LOCAL INSTITUTIONS AND COMMUNITY PARTICIPATION

- The creation of the city sanitation task force,
- The 100% sanitation campaign (pilots),
- An integrated city sanitation plan involving the community
- Capacity building and training

THE APPROACH

- CENTRALIZED AND DECENTRALIZED APPROACHES
 - A combination of approaches is required to ensure 100% sanitation
 - The approach & nature of issues will lead to technology selection
 - Guiding principles must include
 - Technical evaluation
 - Appropriateness to the context
 - Promote energy efficiency, recycling & reuse
 - Socially & culturally acceptable (or build consensus through community involvement)

THE METHODOLOGY

City Sanitation
Task Force (CTF)

Defining the agenda, institution, roles & responsibilities

Formation meeting & visioning exercise

Define operations framework

—

Define framework for M & E

100% sanitation campaign

Structure
Target specific
awareness
campaigns

Urban Poor



Edu Institutions



Hotels & Industries



RWA's & societies

City Sanitation Plan

Mapping & Database Creation



Infrastructure Assessments



Demand Supply Gap Analysis



Assessment of technology options



Strategies & Project formulation

Capacity building & Training

Benchmarking capacities



Training needs assessment



Preparation of Training material



Training Workshops

CITY SANITATION TASK FORCE

Formation

Defining the agenda, institution, roles & responsibilities

meeting & visioning exercise Define operations framework

Define framework for M & E

Draft 1 - after preliminary discussions with key stakeholders

Presentation of CTF agenda to city stakeholders

Defining working groups, members, roles, responsibilities

Defining SOPs

Evaluating & monitoring project implementation

Vision for the city & goal setting for 100% sanitation & Open defecation free city

Monitoring sustenance of 100% sanitation

Final CTF agenda paper

Evaluating CSPs

100% SANITATION CAMPAIGN

Mapping of Sanitation Issues & Target Groups

Issues to be identified through focus group discussions, informal consultations and field visits

Issues may require specific problem solving interventions or changing mindsets

Formulating an action plan for Awareness
Generation

Action plan on the basis of time frame, target groups, issues and medium to be prepared

Preparation of target specific IEC material

Brief for preparing IEC material to be made

Conducting Awareness Generation Programs

Pilot awareness generation to be conducted

Community
Based
Information
System

Data collection formats to be prepared

Open source GIS software can also be used

Mapping & Database Creation



Infrastructure Assessments

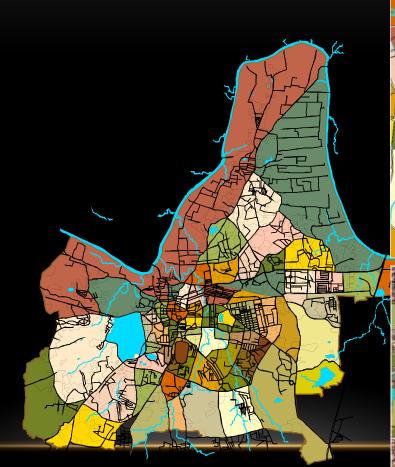


Demand Supply Gap Analysis



Assessment of technology options









Mapping & Database Creation



Infrastructure Assessments



Demand Supply Gap
____Analysis



Assessment of technology options



Strategies & Project formulation

The field surveys and consultation shall be to assess

- Primary and secondary sources of water
- Disaggregate Water demand
- Access to sewerage infrastructure and toilets in slums
- Disaggregate sewerage infrastructure demand
- Typology of development

Survey block No.: Building block No				:					
Area Nan	ne: Landuse Survey		r Name: -	B) Block level surv	ey				
L. Landu	se Subcategory - Tick mark the appropriate la	nd use		 Water Supply Household size/No 	. of members				
NO.	Landuse	Coding	Tick	2. Do you have water	supply facility:	Yes		No.	
1	HIG Residential(Posh bungalows)	Ra		2. Do you have water	supply facility.	res		NO.	
2	Residential Apartment(HIG)	Rb		3. If yes than what is the source of water supply?					
3	Residential + Commercial	Rc		Source	Predominant source	Supplementary source	Quality of	Regularity of water	Time period for
4	Row houses	Rd					water	supply	which
5	MIG Residential(tenements/duplex)	Re							water is supplied
6	LIG Residential(tenements/apartments)	Rf							(hrs)
7	Slums	Rg		Municipal Bore well					
8	Commercial(malls/Big shops)	Ca		Tanker					
				Bottled water					
				Individual taps Common stand post					
				Neighboring areas					
				Other					

Mapping & Database Creation



Infrastructure Assessments



Demand Supply Gap Analysis

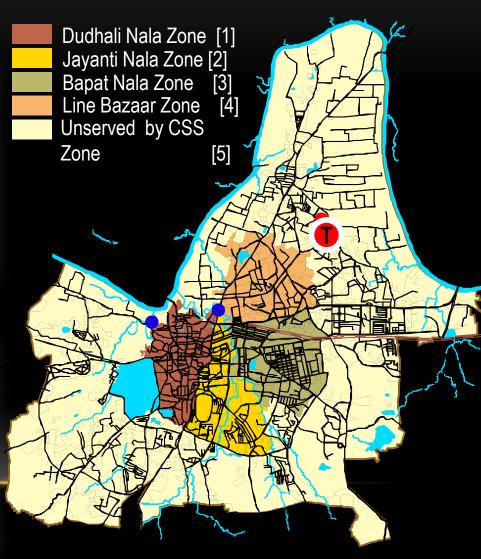


Assessment of technology options









Mapping & Database Creation



Infrastructure Assessments

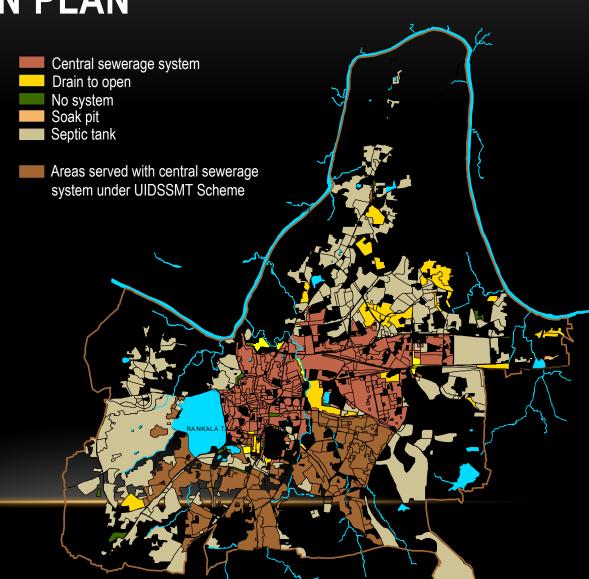


Demand Supply Gap
Analysis



Assessment of technology options





Mapping & Database Creation



Infrastructure Assessments



Demand Supply Gap Analysis



Assessment of technology options



- Infrastructure gaps
 - Capacity issues
 - Coverage issues
 - Network inadequacies
 - Level issues
 - People don't want to connect
 - Management issues

Mapping & Database Creation



Infrastructure Assessments

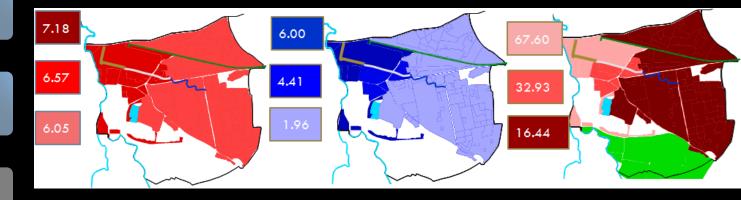


Demand Supply Gap Analysis



Assessment of technology options





Mapping & Database Creation



Infrastructure Assessments



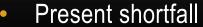
Demand Supply Gap Analysis



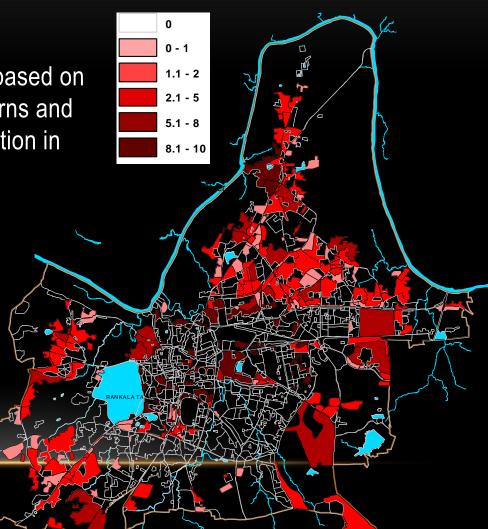
Assessment of technology options



Strategies & Project formulation



 Future demand based on city growth patterns and projected population in the CDP



Policy & legislation for new developments

Mapping & Database Creation



Infrastructure Assessments



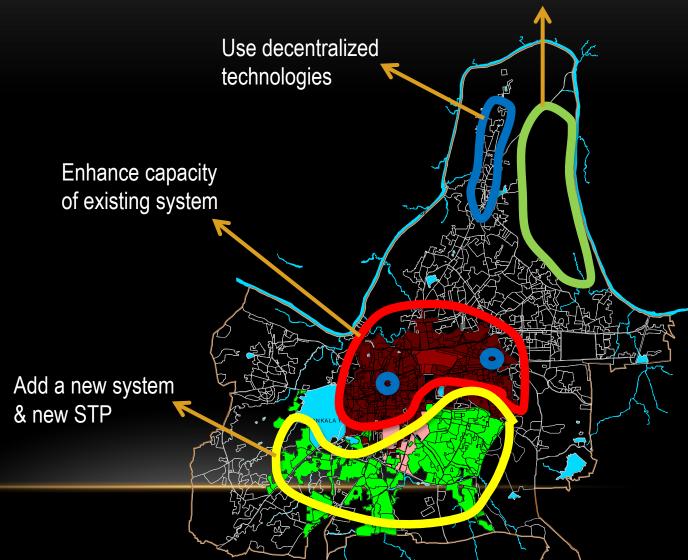
Demand Supply Gap

Analysis



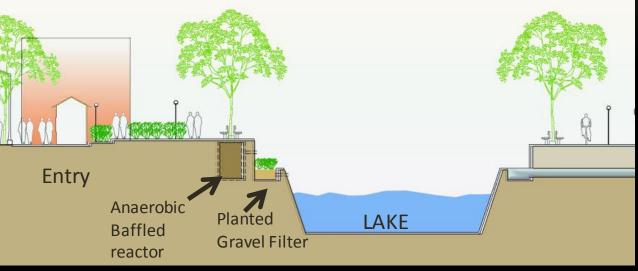
Assessment of technology options





INTEGRATING WITH WATER FRONT DEVELOPMENT





A part of the sewage in the centralized system, serving areas adjoining the water bodies can be treated by installing modular anaerobic baffled reactors along the lake front. The treated water can be used for lake front development

Mapping & Database Creation



Infrastructure Assessments



Demand Supply Gap Analysis



Assessment of technology options



- Schematic design of central sewerage systems
- Schematic design of decentralized systems in a manner that integrates with centralized
- City level strategies on project phasing, implementation
- Block cost estimates for the city
- Recommendations to policy and legislation

CAPACITY BUILDING & TRAINING

Benchmarking of capacities of the municipal corporation

Developing a benchmark based on key stakeholder consultation for 100% sanitation

Assessing capacities of the municipal corporation

Plan for capacity building

Training needs assessment

Knowledge areas/ gaps for implementing 100% sanitation shall be identified Formation of a Technical Core Group

Municipal and private sector professionals shall be identified

Focus areas for pilot training determined

Training Workshop Series

Pilot training workshops on 3 topics shall be conducted

Thank you

