

by:

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Implementation of the NUSP

- Sanitation is a state subject and on ground implementation and sustenance of public health and environmental outcomes requires strong city level institutions and stakeholders.
- Considerable field work with technical inputs and effective consultations at local level to reflect the local needs of sanitation are required to make the plans more realistic.
- Further, to ensure quality and uniform approach it could be best managed through a single agency at the State level.



Vision for Urban Sanitation in India

All Indian cities and towns become

- Totally Sanitized,
- Healthy,
- Livable and
- Sustain good Public Health and Environmental outcomes

for all their citizens with a special focus on hygienic and affordable sanitation facilities for the urban poor and women.



Key Sanitation Policy Issues

- Poor Awareness
- Social and Occupational aspects of Sanitation
- Fragmented Institutional Roles and Responsibilities
- Lack of Integrated City-wide Approach
- Limited Technology Choices
- Reaching the Un-served and Poor
- Lack of Demand Responsiveness



Policy Goals

- Awareness Generation and Behavior Change
- Open Defecation Free Cities
- Integrated City-Wide Sanitation
- Sanitary and Safe Disposal
- Proper Operation & Maintenance of sanitary Installations

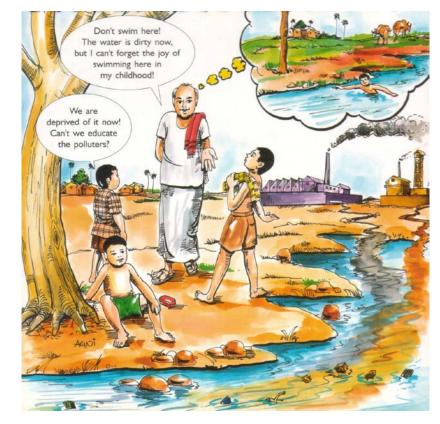


Activities in the CSP



Awareness Generation and Behavioral Change

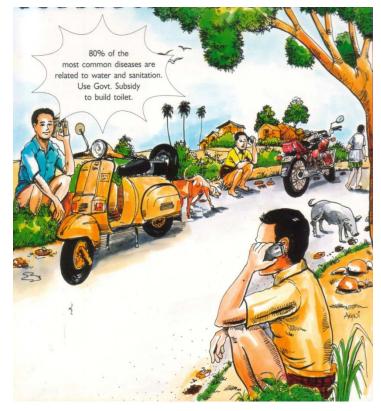
- Generating awareness about sanitation and its linkages with public and environmental health amongst communities and institutions
- Promoting mechanisms to bring about and sustain behavioral changes aimed at adoption of healthy sanitation practices





Open Defecation Free Cities

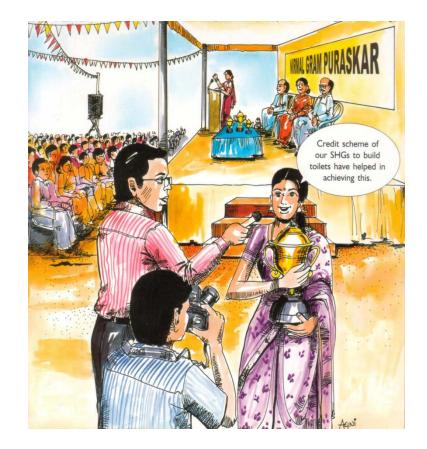
- Promoting household access to safe sanitation facilities (including proper disposal arrangements)
- Promoting community-planned and managed toilets wherever necessary, for groups of households who have constraints of space, tenure or economic constraints in gaining access to individual facilities
- Adequate availability and 100 per cent upkeep and management of public sanitation facilities in all urban areas, to rid them of open defecation and environmental hazards





Integrated City-wide Sanitation

- Mainstreaming thinking, planning and implementing measures related to sanitation in all sectors and departmental domains as a crosscutting issue, especially in all urban management endeavors
- Strengthening national, state, city and local institutions (public, private and community) to accord priority to sanitation provision, including planning, implementation and Operation & Maintenance (O&M) management
- Extending access to proper sanitation facilities for poor communities and other un-served settlements





Sanitary and Safe Disposal

- Promoting proper functioning of network-based sewerage systems and ensuring connections of households to them, wherever possible
- Promoting recycle and reuse of treated waste water for non-potable applications, wherever possible, will be encouraged
- Promoting proper disposal and treatment of sludge from on-site installations (septic tanks, pit latrines, etc.)
- Ensuring that all the human wastes are collected safely confined and disposed-off after treatment so as not to cause any hazard to public health or the environment



Proper Operation and Maintenance of All Sanitary Installations

- Promoting proper usage, regular upkeep and maintenance of household, community and public sanitation facilities
- Strengthening Urban Local Bodies (ULBs) to provide or cause to provide, sustainable sanitation services delivery

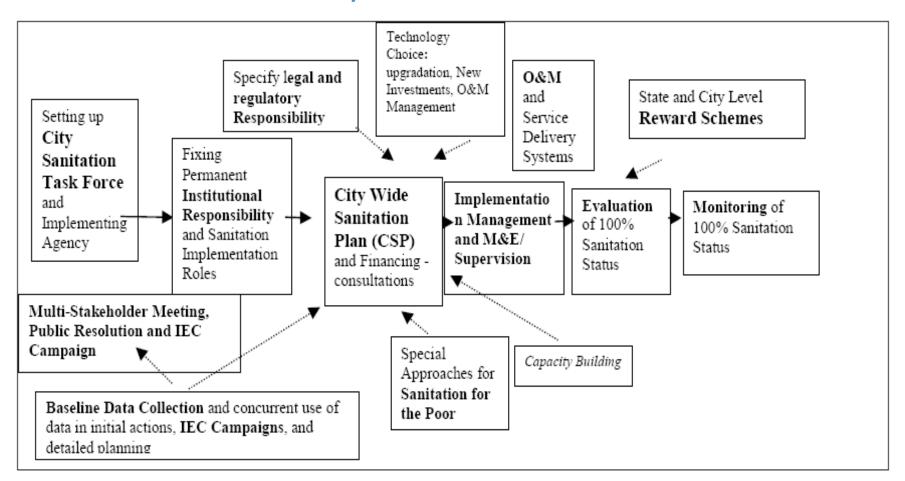


City Sanitation Plan

- The basic step to achieve the state sanitation is city sanitation
- The CSP framework is to assist Urban Local Bodies, NGOs, community based organizations, citizens and private sector agencies in Govt. of India through a series of steps toward achieving the goal of 100 percent sanitation in their cities.



Generic Elements of Planning, Implementation and O & M of City Wide Sanitation





Methodology to be adopted

Preparatory Activities

- Setting up City Sanitation Task Force
- Stakeholders Consultations (Urban Local Bodies, other parastatal departments, NGOs, Civil societies, Unions, private firms/contactors and Users)
- Baseline Data Collection and Creating Database
- Households data
- Development of GIS
- Awareness Generation and Behavioral Change
 - Personal Hygiene and Behavioral Surveys
 - Awareness Generation Strategy



Continued..

- Open Defecation Free Cities
 - Condition Assessment Surveys for existing sanitation facilities
 - Technical Choices and Designs
 - Stakeholders Consultations
 - Engineering Surveys & Designs
 - Willingness to Pay for Services Surveys
 - Finance Strategy

Integrated City Wide Sanitation

- Institutional Assessment Availability of Manpower, Skills, Systems & Procedures, Roles & Responsibilities, Legal & Regulatory Framework
- Stakeholders Consultations (Urban Local Bodies, other parastatal departments, NGOs, Civil societies, Unions, private firms/contactors and Users)
- Service provision for Urban Poor



Continued...

- Sanitary and Safe Disposal
 - Implementation and Supervision Strategy
 - Monitoring and Evaluation
- Proper Operation and Maintenance of all Sanitary Installations
 - O&M and Service Delivery Strategy
 - Capacity Building Strategy
 - Financial Status O&M, Revenue and Tariffs, Overall Finance Status



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Proposed Plan

Experts

Hygiene & Low cost Sanitation Expert

Solid Waste Expert

IEC & Capacity Bldg Expert

Social Specialist

Finance Specialist

GIS Expert

City Sanitation Task Force

Chief Officer / Commissioner – Conveyer

President / Mayor

Irrigation / PWD Engineer

Medical officer

Water Supply Engineer

Sewerage System Engineer

District Health Officer

PHC Head

City Engineer

NGO's working in City Sanitation

Peoples Forum (If any)



Key Area for CSP....

- Safe Disposal of human excreta
- Solid Waste Management
- Liquid Waste Management
- Safe handling of drinking water
- Home sanitation & food hygiene
- Personnel hygiene
- Community environmental sanitation



Broad contents

- Introduction to the Town/City-Profile
- Water supply
- Sewerage facilities
- Solid Waste Management facilities
- Total Sanitation facilities
- Gaps and missing links
- Comprehensive Plan based on Missing links "City Sanitation Plan"



Proposed activities

• Sewerage

- Identify missing links
- Update the network
- Onsite Sanitation Facilities e.g De-sludging units etc
- Low cost sewerage facilities- Soak Pits, Septic Tanks
- Toilet construction

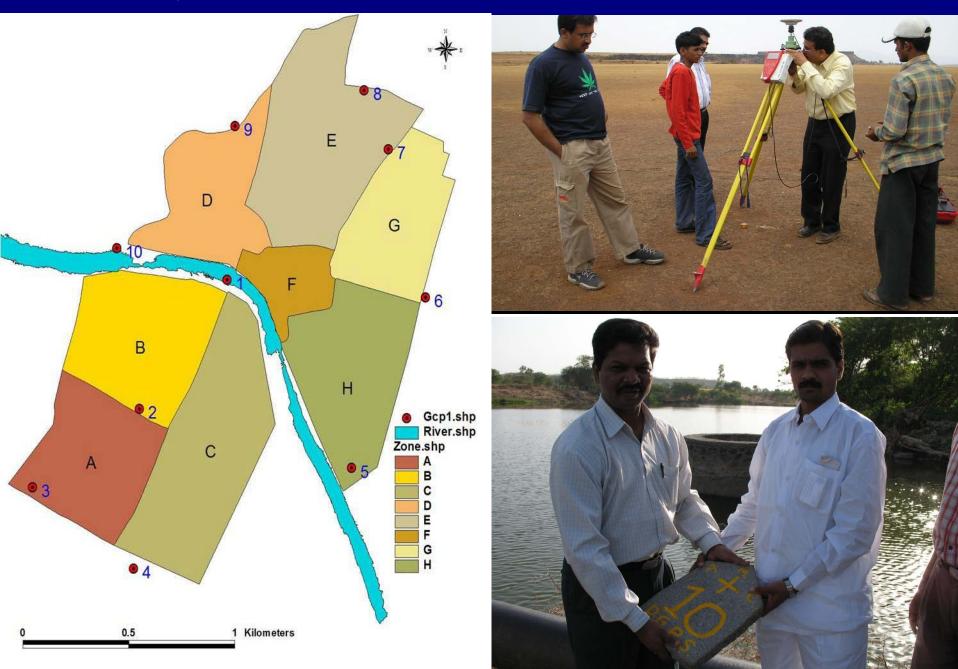
• Solid waste management

- Efficient Collection and Transportation Mechanism
- Sweeping (mechanical and manual)
- Sanitary landfill (closure of existing landfill site and identification of new)



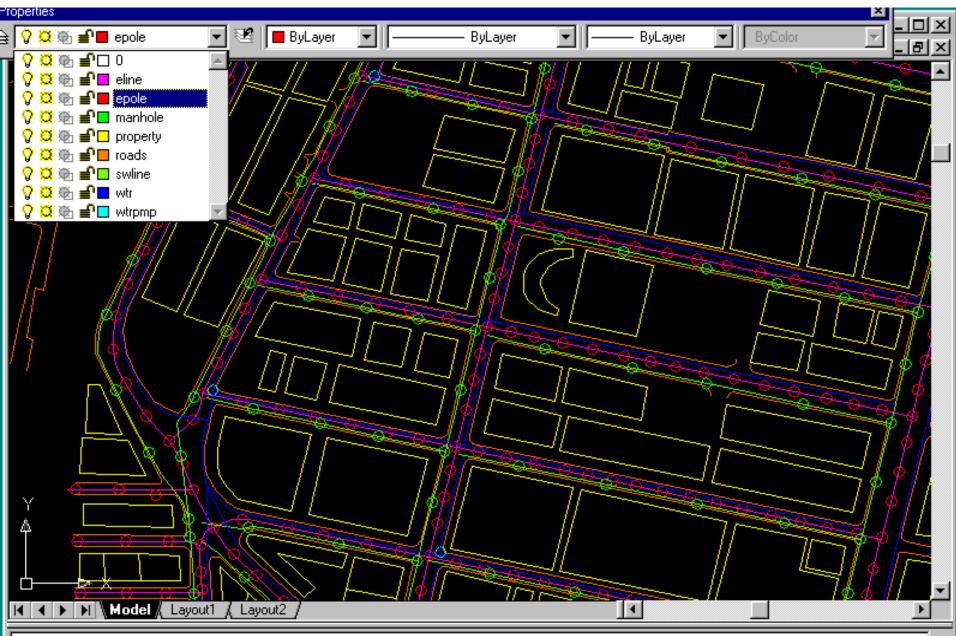
Base Map Generation Using Satellite Data

Various Surveys for Preparation of Zone /Base Map



Base Map Generation





Command :



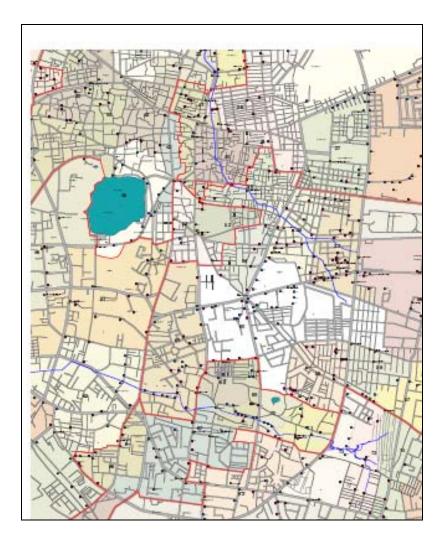


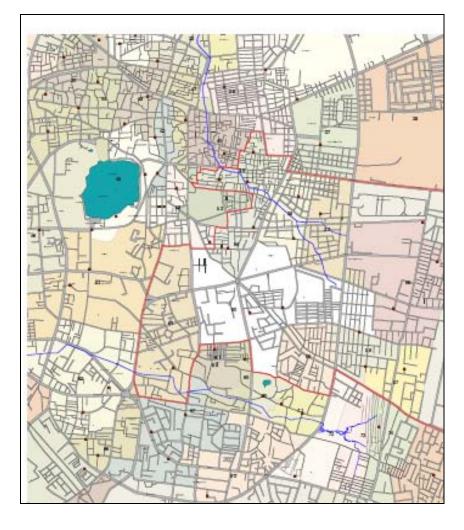


A Typical Sewerage Network Map





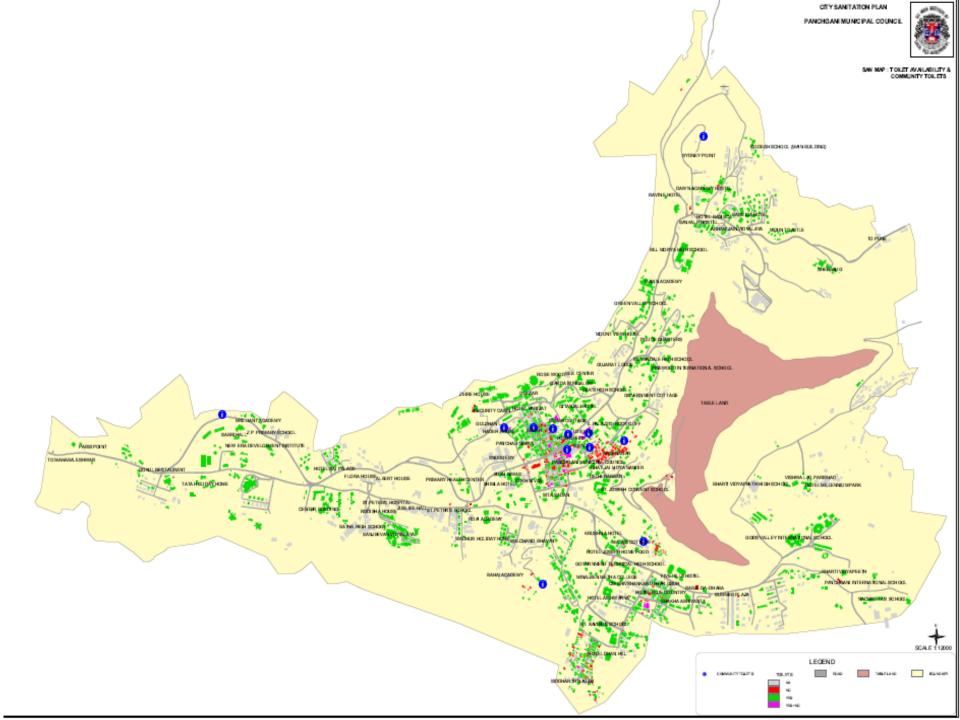


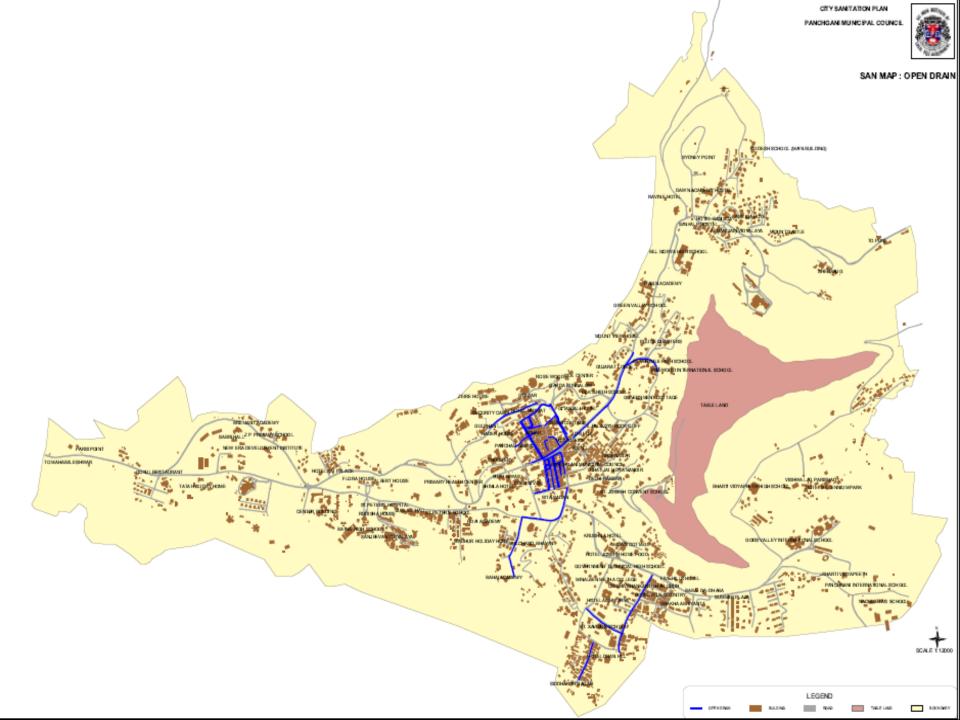


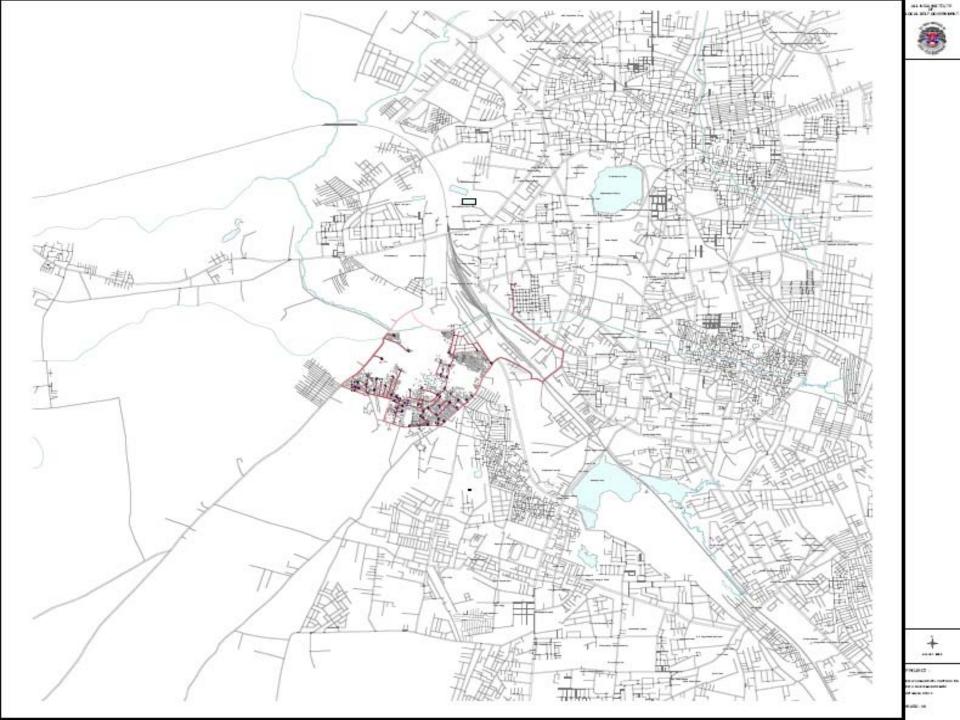
Community Bins Before

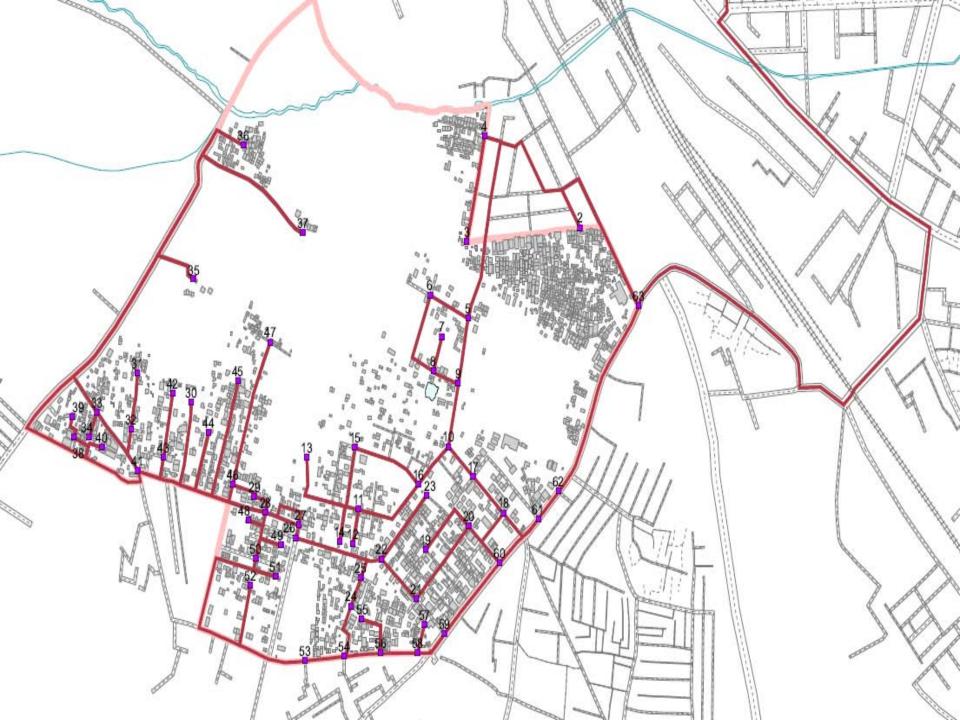
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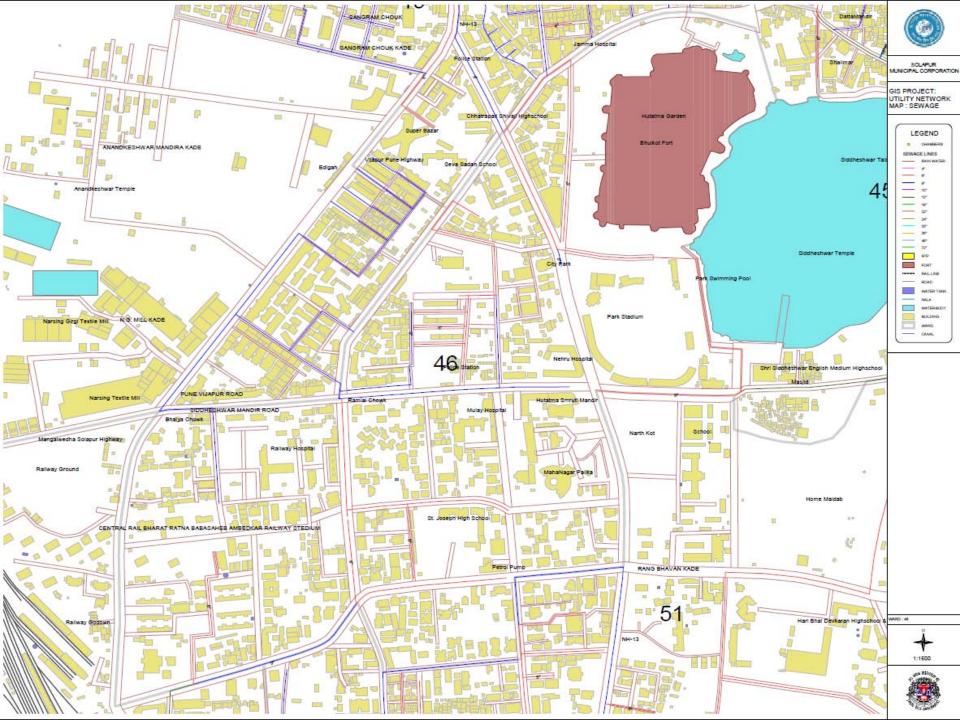
















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Gantt Chart

	Month		1st				2nd				3rd					4th				5th			6th				7th				8th				9th					10		
	Activities	W1	W2	W3	W4	1 W	'1 W	٧2 N	N3	W4	W1	W2	W3	W4	I W	1 W2	2 W	'3 V	N4	W1 W2	W3	W4	W1	W2	W3	W4	W1	N2	W3	W4												
1	Expert Recruitment																																									
2	Survey Agencies																																									
3	City Sanitation Task Force																																									
4	Collection of Secondary Data for all ULBs																																									
5	Studies																																									
6	Initial Consultation workshop																																									
7	Workshop analysis and conclusions																																									
8	Inception Report																																									
9	Stakeholders Consultation																																									
10	Sanitation Designs and Approvals																																									
14	Awareness Generation Strategy																																									
15	Capacity Building Strategy																																									
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17	O&M and service delivery strategy																																									
18	Finance strategy																																									
11	Financial Feasibility																																									
12	Draft CSP																																									
13	Stakeholders Consultation																																									
14	City Sanitation Plan																																									
19	Monitoring and Evaluation																																							181	<u></u>	 (ee



Preparations Required by Cities

- Identify Task Force members and setup Task Force
- Update database on Sanitation
- Update maps showing existing sanitation facilities in the city
- Identify areas presently not covered under sanitation and collect relevant technical details



Thank you !!!

