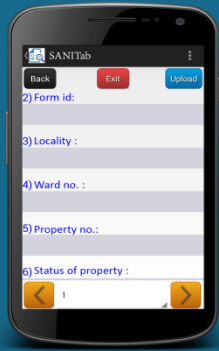




# SANI Tab

*Sanitation Survey Tool*

# “SaniTab”: Creating Database for Onsite Sanitation System



- CEPT has developed a generic Mobile Application - “**SaniTab**”
- To create database for Onsite sanitation system
- SaniTab can be used by any ULBs

## “SaniTab” – Key Features:

- Citywide digital data collection tool
- Providing enabling environment for spatial analysis
- Quick and ease in survey, minimizing human error
- “Real time” monitoring of survey activity
- Survey at scale

# “SaniTab”: Creating Database for Onsite Sanitation System

## Assessment captures the following aspects

- Toilet availability
- Where is the toilet connected to
- Size and shape of septic tank
- Access covers to septic tanks
- Accessibility of septic tanks
- When was the septic tank last cleaned.
- Cleaning frequency of septic tanks
- Problems encountered while cleaning of septic tanks
- Reasons for emptying septic tanks

## Sample Questionnaire

Toilet availability assessment	
19	Where do you dispose greywater from kitchen and bathroom? (1. Sewer, 2. Septic tank, 3. Soak Pit, 4. Covered drains, 5. Open drains, 6. Others, specify, 7. Don't Know)
20	Do you have your own toilet on your premises? 1. Yes 2. No.
21	<b>If 20=1</b> , Does any member of the household still go for defecation in the open? (1. Men. 2. Women. 3. Children. 4. No one)
Septic tank assessment	
22	<b>What is the type of toilet facility is being used?</b> (1. Flush/pour flush toilet connected to piped sewer system, 2. Flush/pour flush toilet connected to septic tank, 3. Flush/pour flush toilet connected to other system, 4. Single Pit toilet with slab, 5. Single pit toilet with ventilated improved pit, 6. Single pit toilet without slab / open pit, 7. Twin/Double pit toilet , 8.Night soil disposed into open drain, 9.Service toilet with night soil removed by humans, 10. Service toilet with night soil services by animals)
<b>If Q22 is 2 (toilet connected to Septic tank) answer 23 to 46</b>	
<b>If Q22 is not 2 (toilet connected to Septic tank) go to B</b>	
23	No. of septic tanks in the property (1.Number _____, 2. Don't know)
24	Distance of septic tank from the nearest well/bore (1. Distance _____ ft. to on-site system, 2. Don't know)
25	Septic tank outfall is connected to (1. Soak pit, 2. Open drain, 3. Covered drain, 4. Others (Specify) 5. Don't Know)
26	What is the average frequency of cleaning of septic tank? (1. 1 year, 2. 2 years, 3. 3 Years, 4. 4 Years 5. More than 5 years, 6. Don't Know)
27	What is the shape of your septic tank (1. Rectangular, 2. Circular, 3. Don't Know)
28	Can you provide the dimensions of the septic tank? (1. Yes 2. No.)
29	<b>If Q. no 27= 1 and Q.no 28= 1</b> , provide L _____ ft, B _____ ft., H _____ ft.
30	<b>If Q. no 27= 2 and Q.no 28=1</b> , provide Diameter _____ ft., Depth _____ ft.
31	How many chambers are there in the septic tank (1. one, 2. two , 3. three, 4. Don't Know)
32	The base of septic tank is (1. Sealed with concrete and /or plaster, 2.No base – only soil, 3.Other, please specify, 4. Don't know)
33	Are there ventilation pipes for septic tanks (1.Yes, 2. No)
34	What construction materials have been used for constructing septic tanks? (1. R.C.C, 2. Cement concrete and brick, 3. Prefabricated unit, 4. Don't Know, 5. Other, specify)
35	What is the age of septic tank? (1. No. of years _____, 2. Don't know)
36	Where is septic tank located? (1.Front yard, 2.Back yard (easy access), 3.Back yard (no access/through house), 4. House side , 5.Under house, 6.Near the toilet, 7.Don't know) <i>(Note: The person can be allowed to answer more than one option i.e. Backyard (Easy access) and near the toilet)</i>
37	<b>If Q 36 = 6</b> , Where is the septic tank located near the toilet? (1. Away from toilet, 2. Only 1st chamber is below the toilet, 3. All the chambers are below the toilet or other structures, 4. Don't Know)
38	Is the septic tank accessible from road for cleaning by using a suction emptier truck? (1. Yes, 2. No, 3. Don't Know)
39	What is the approximate distance of septic tank from the road? (in meters)
40	Is there proper access with manholes/covers for any of the chamber of septic tank which can be easily opened (1. Yes , 2. No)
41	<b>If 40 = 1</b> , then type of material of access cover (1. Concrete, 2. Cast iron, 3. Farsi (Tiles), 4. PVC/FRP cover, 5. Others, specify, 6. Don't know)
42	When the septic tank was cleaned the last time? (1. Last 6 months 2. from 6 to 12 months 3. 12-24 months 4. 24-36 months 5. more than 36 months 6.Never 7. Don't know)
43	Why was the septic tank emptied? (1. Blocked toilet, 2.Overflow from access hole/manhole , 3.Smell, 4.Others, specify) , 5.Don't know/remember )

# “SaniTab” Training Module for surveyors

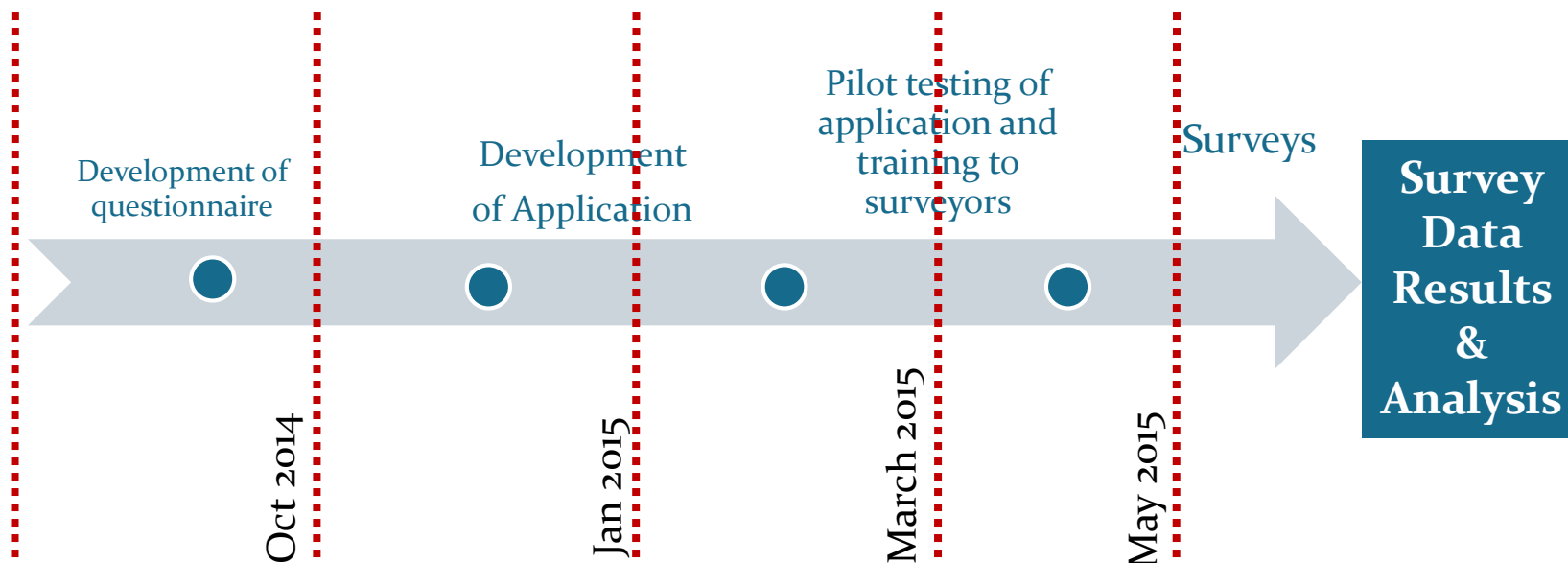
- Training module for surveyors capture:
  - DOs and DONTs
  - Steps to install application and Login process
  - Field guide
  - Question wise points to remember



# Property Level Sanitation Surveys

## SaniTab

To generate household level database for monitoring of both the sanitation schemes





# Key Survey Results

**83%** have own toilets - more than census figure (**68%**)

**2.1%** resort to OD which is more than census (**2%**)

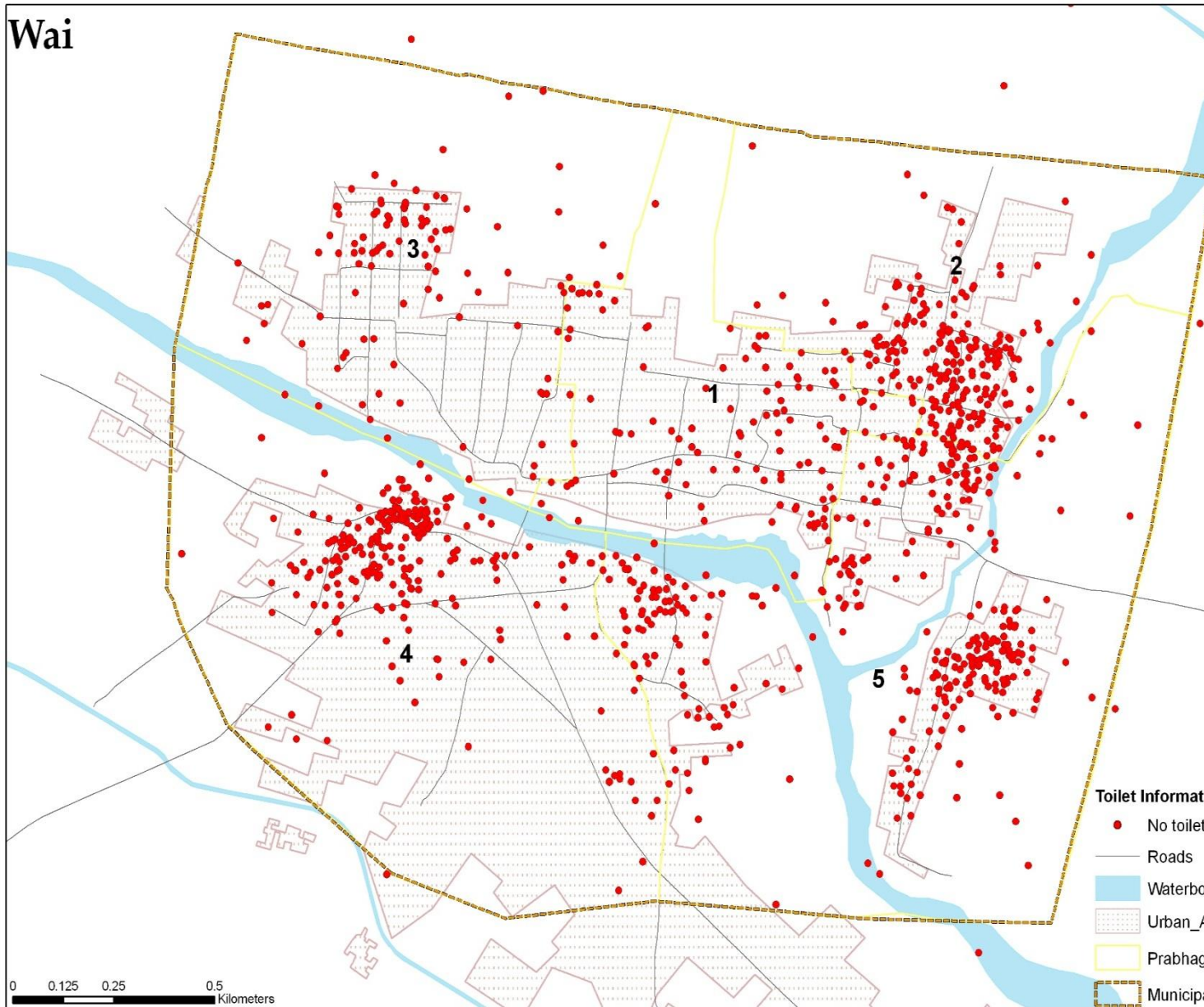
**“Can’t afford”** is the key reason for not having toilet

**51%** are willing to construct group toilet

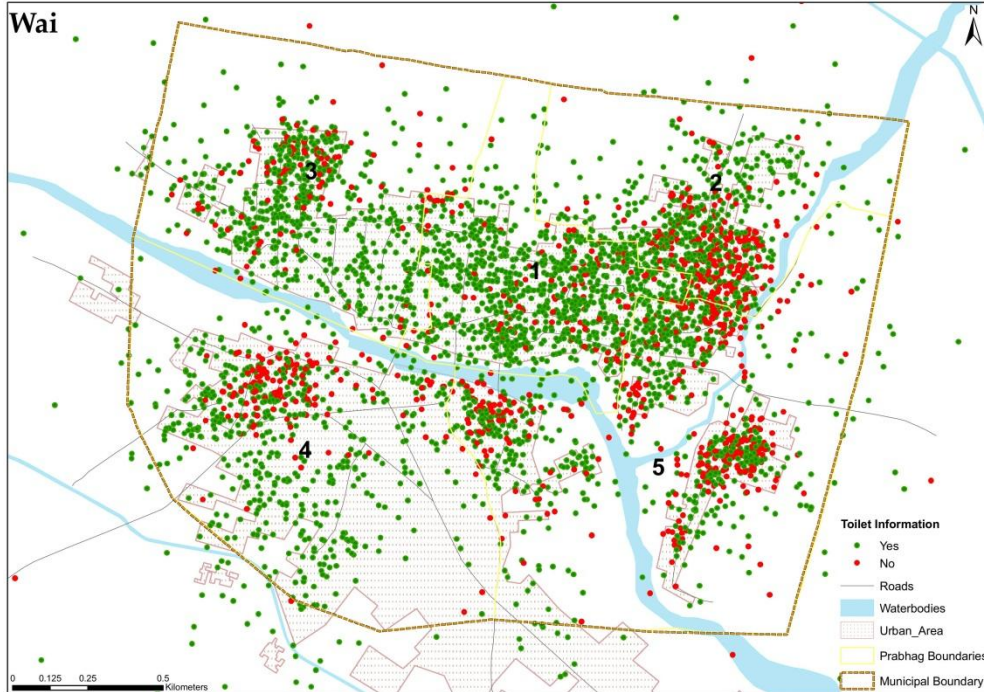
**40%** are willing to take loan

**99%** toilets are connected to septic tank

Average frequency of cleaning of STs is **6 years**

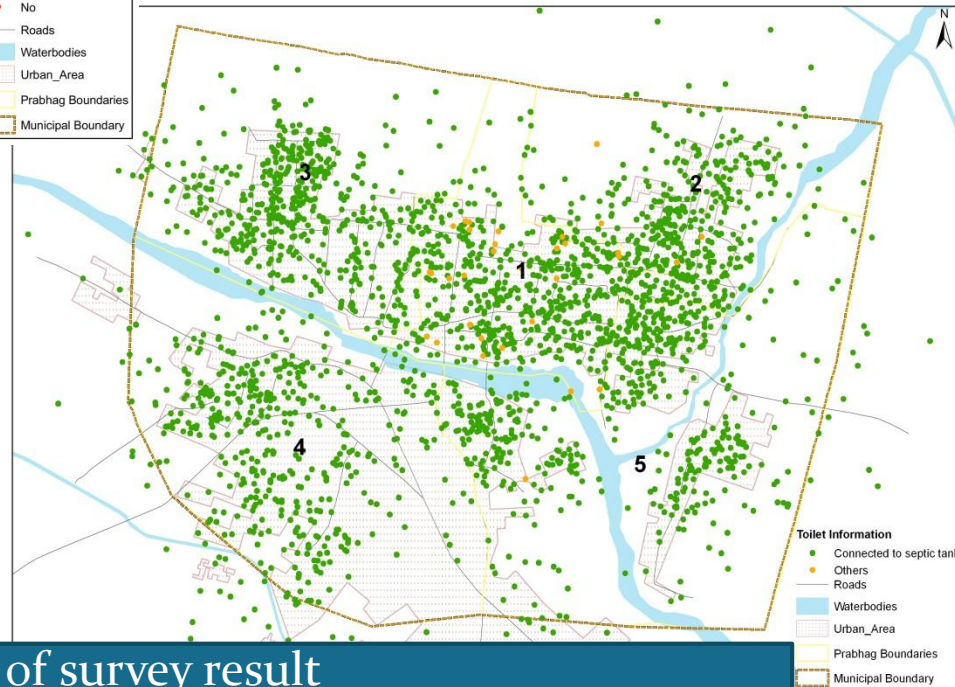


# Key Survey Results



Map depicts HHs with toilets & Major areas where HHs don't have toilets

Map depicts HHs with toilets connected to septic tanks



# SaniTab: Dashboard

[HOME](#)[SURVEY TEMPLATES](#)[REPORTS](#)[SURVEY GIS](#)

Home » Home

[Demographics](#)[Toilets Availability](#)[Septic Tank](#)[Credits Options](#)[Strategy](#)[Mapping](#)

Total Number of  
Properties



6044

Total Surveyed  
Properties



1295

District  
Population



36025

[HOME](#)[SURVEY TEMPLATES](#)[REPORTS](#)[SURVEY GIS](#)

Home » Surveys Conducted Per Template

[Custom Report](#)[Generate Full Report](#)[Generate Upload Time Report](#)[Generate Surveyor Report](#)[Unsurveyed Property List](#)[Full Report For Editing](#)[Upload Edited Data](#)[Recover Survey Data](#)

Survey Template	Description	No. of Surveys
ODF-Marathi-HH	ODF M-02 version 01.04	1
Waicity-English-Appt	Waicity-90.01.01	55
Waicity-English-Res-Com	Waicity English survey template 479.591.403	8
Waicity-Marathi-Apt	Waicity M-02	483
Waicity-Marathi-Res-Comm	Waicity M-08	7635



# SaniTab: Dashboard

HOME

SURVEY TEMPLATES

REPORTS

SURVEY GIS

Home » Home

Demographics

Toilets Availability

Septic Tank

Credits Options

Strategy

Mapping

Wai



Population  
**36025**  
Class  
**C**  
District  
**Satara**

Sanitation Profile- Census 2011

Total No. Households

**7,580**

Toilets

**5,145**

Households - Open Defecation

**135**

Households - Community Toilets

**2,300**

Toilets With Septic Tanks

**4,429**

Total Number of Properties



6044

Total Surveyed Properties



1295

District Population



36025

Ward 1

**568**

Ward 2

**610**

Ward 3

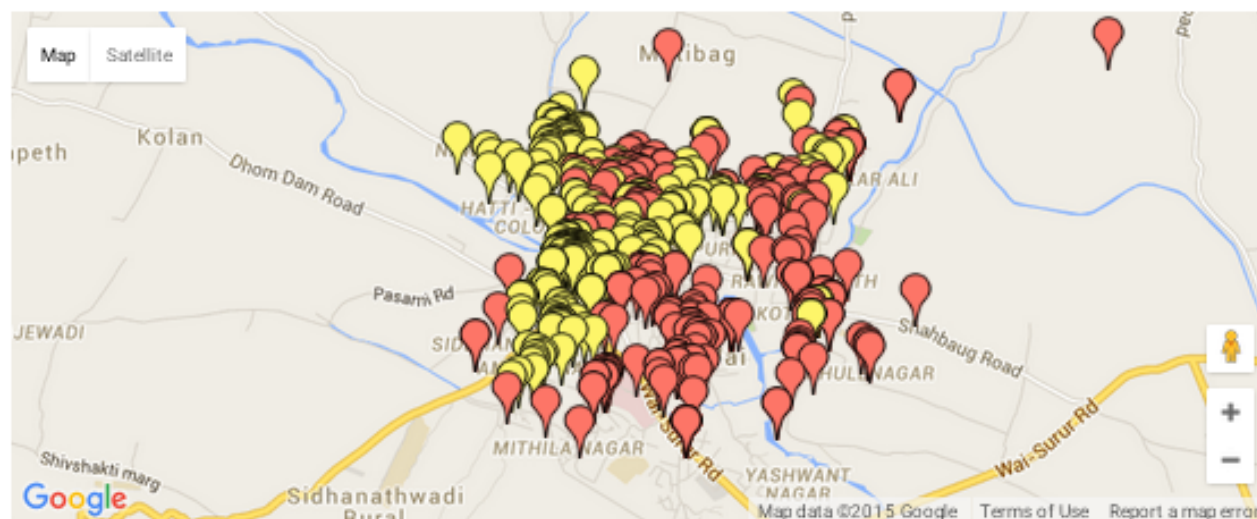
**0**

Ward 4

**0**

Ward 5

**0**



# SaniTab: Dashboard

HOME

SURVEY TEMPLATES

REPORTS

SURVEY GIS

Home » Home

Demographics

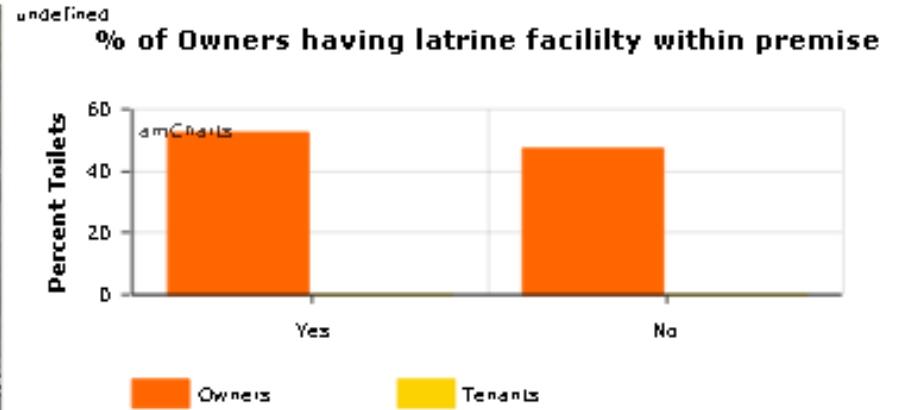
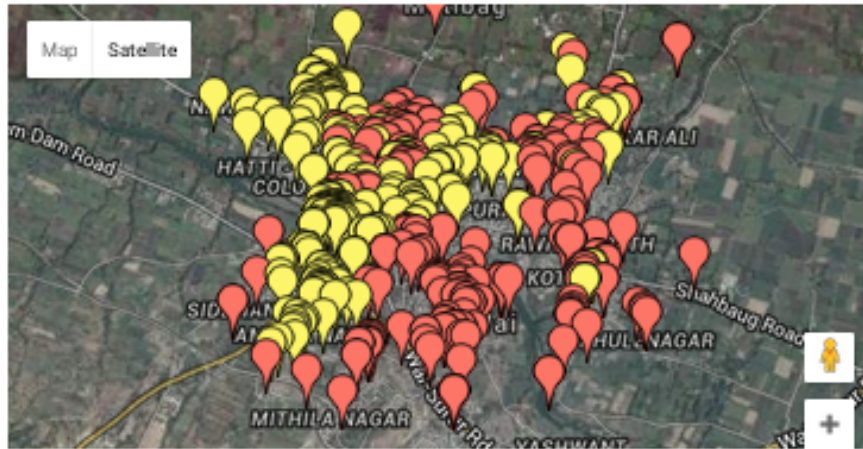
Toilets Availability

Septic Tank

Credits Options

Strategy

Mapping

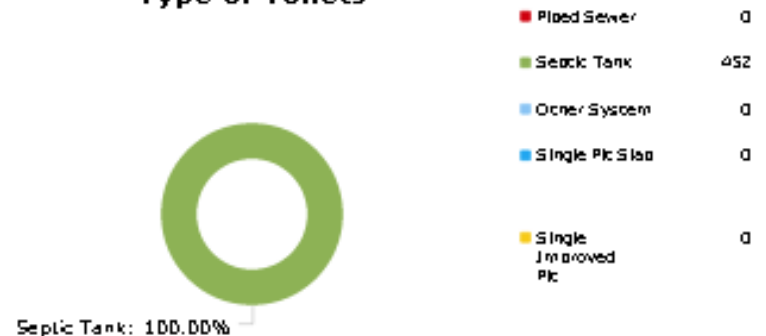


Click Next to See - Further Details

## Households Having Latrine Within Premises



## Type of Toilets



# SaniTab: Dashboard

HOME

SURVEY TEMPLATES

REPORTS

SURVEY GIS

Home » Home

Demographics

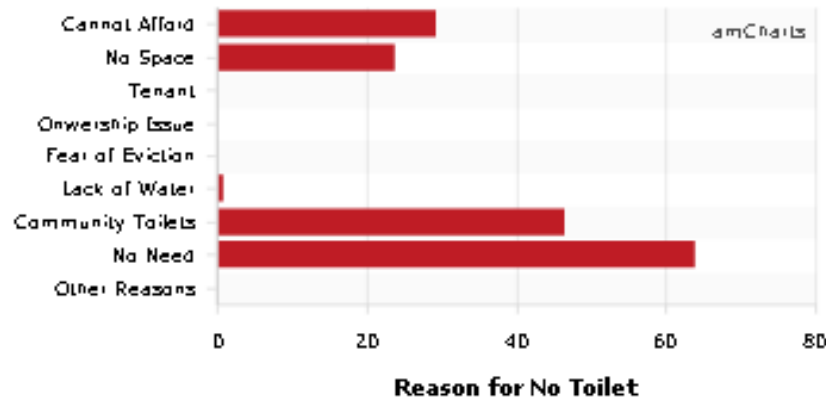
Toilets Availability

Septic Tank

Credits Options

Strategy

Mapping



[Click Back to Go Back to Previous](#)

## Reason for Lack of Willingness to Construct Own Toilets



Cannot Afford	25
No Space	26
Tenant	1
Ownership Issue	2
Fear of Eviction	1
Lack of Water	1
Community Toilets	85
No Need	153
Other Reasons	0

Households Willing to Construct Toilet	243
Households <b>NOT</b> Willing to Construct Toilet	168
Households Willing to Share & Construct Toilet	80
Households Having Space to Construct Septic Tank	80
Households Having Space to Construct Toilet	84

# SaniTab: Dashboard

HOME

SURVEY TEMPLATES

REPORTS

SURVEY GIS

Home » Home

Demographics

Toilets Availability

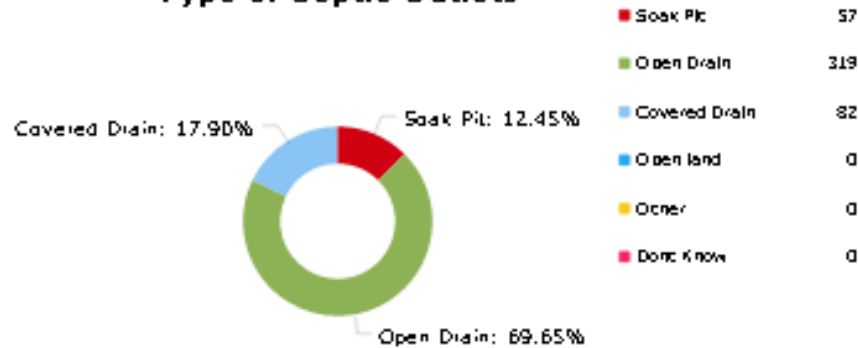
Septic Tank

Credits Options

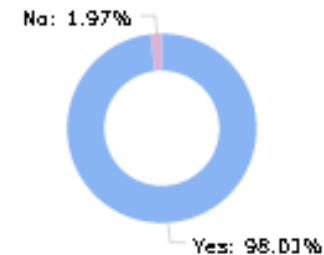
Strategy

Mapping

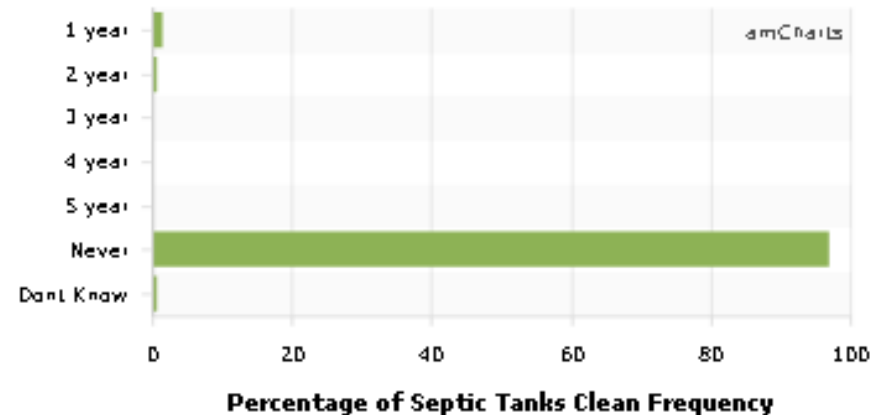
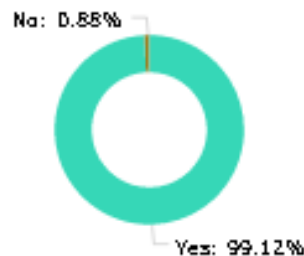
## Type of Septic Outlets



## % of Septic Tanks with Proper Cover or Manholes



## Septic Tanks accessible to Suction Emptyer Trucks





# SaniTab: Dashboard

HOME

SURVEY TEMPLATES

REPORTS

SURVEY GIS

Home » Home

Demographics

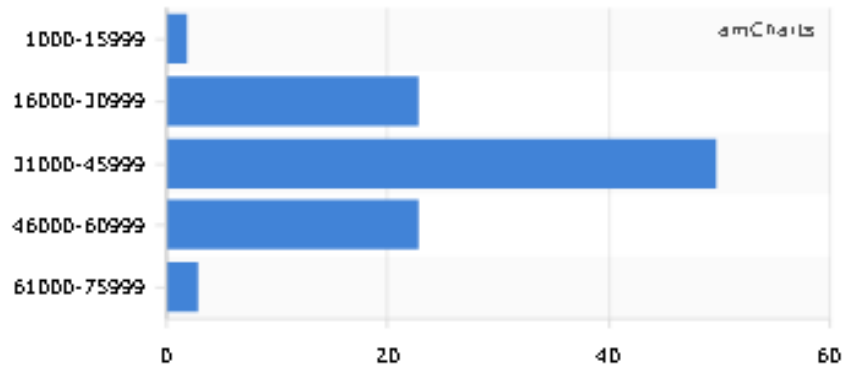
Toilets Availability

Septic Tank

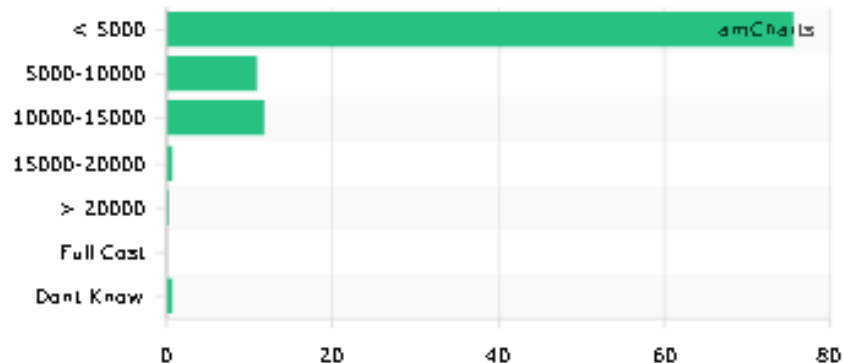
Credits Options

Strategy

Mapping



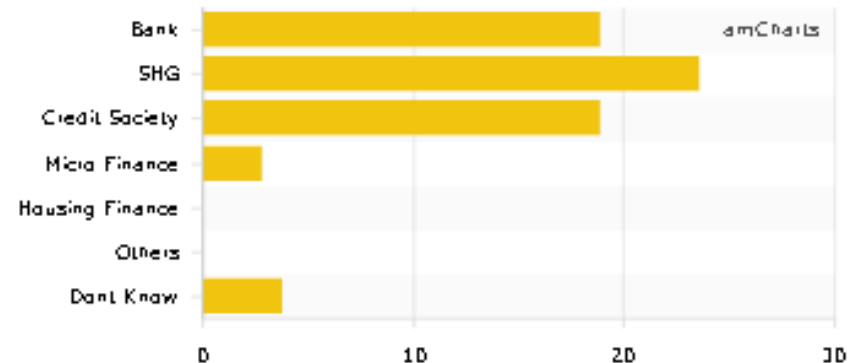
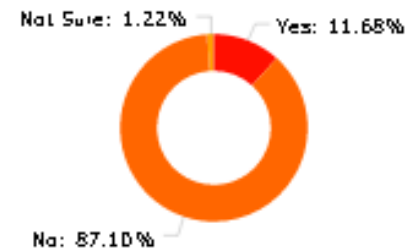
Perceived cost of Toilet in %



Contribution towards Toilet Construction %

amCharts

Willing to Take Loan (%)



Option Chosen for Toilet Loans %



# Thank You

Website: [www.pas.org.in](http://www.pas.org.in)

Email: [pas@cept.ac.in](mailto:pas@cept.ac.in)

Phone no: 079-26302470, ext - 467