

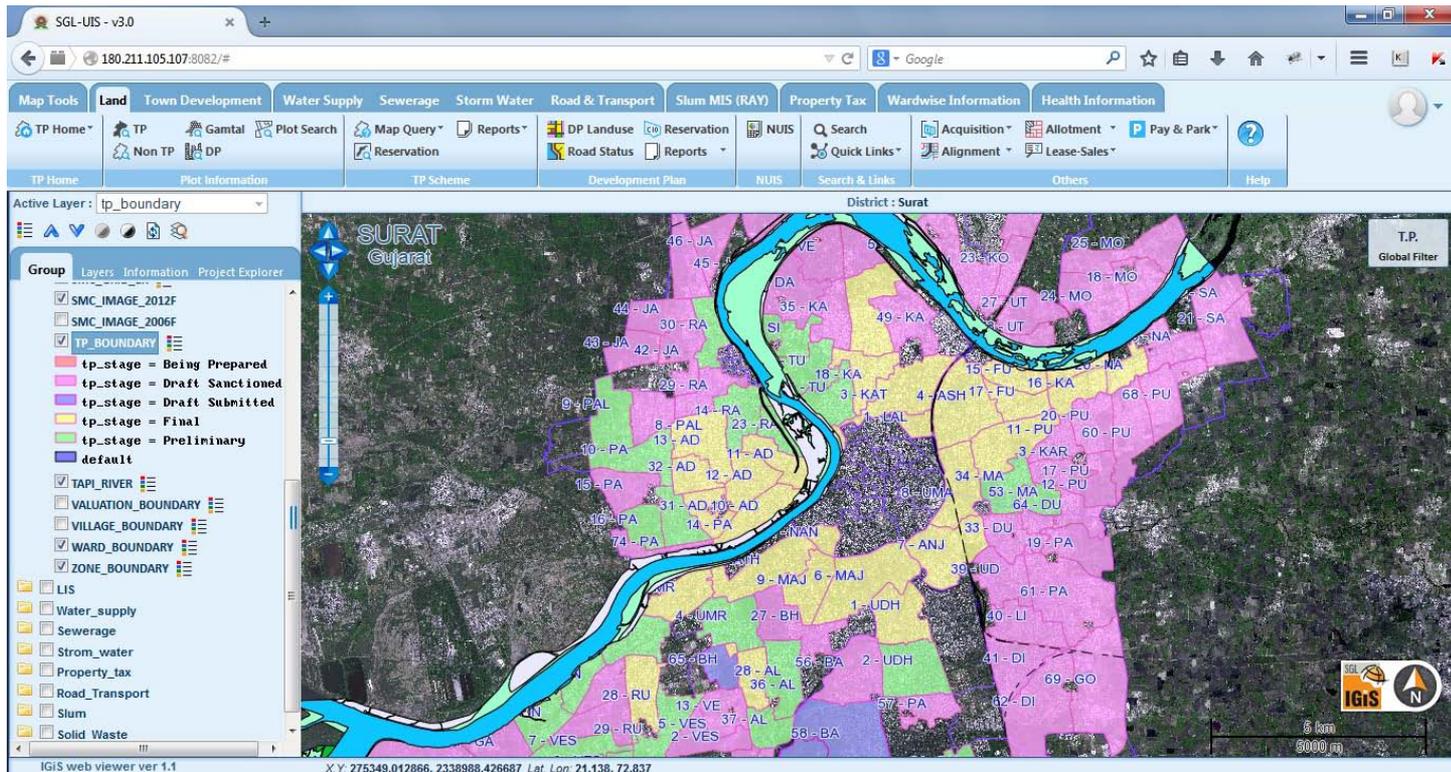


Design, Development and Implementation
Of
Web based GIS Application Along with GIS Database
At
Surat Municipal Corporation (SMC)



Introduction

- Surat Municipal Corporation (SMC) has designed, developed and implemented a Web based GIS application along with GIS database for better governance, improving operational efficiency and ease of interaction with citizens.
- SMC awarded this project to Antrix corporation, Gol and its partner Scanpoint Geomatics Ltd. (SGL)
- Project development duration was 18 months.



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SMC Web GIS – Project Phases

- 1) **Design of the complete project:** SRS, Data Model, Bas Map creation & survey methodology
- 2) **Preparation of Geo-corrected Base Map:** SMC Area – 326.51 Sq. Km. Base map creation using 0.6 m Satellite Image in 1:5000 scale and Slum survey using DGPS/Total Station in 1:500 scale.
- 3) **Data Collection (Primary & Secondary):** Departmental data, Field survey for property verification.
- 4) **GIS Project Development:** Web GIS Application customization for Public use and SMC departments :
Departments: Town planning, Town development, Hydraulic, Sewerage and storm water, Road and transport, Bridge, Slum , Property Tax etc...
- 5) **Testing, Installation & commissioning of GIS Project and Training:** The application was successfully deployed and training was conducted.
- 6) **Maintenance :** 3 Years of post implementation support to SMC by development agency.



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Standards followed for SMC GIS project implementation

- National Standards for Urban
 - Atal Mission for Rejuvenation and Urban Transformation (AMRUT)
(Formally known as JNNURM)
 - National urban information system (NUIS)
 - Rajiv aavas yojna (RAY)
- International GIS Standards
 - Open Geospatial Consortium (OGC) standards
 - Web map service (WMS)
 - Web coverage service (WCS)
 - Web features service (WFS)
 - Web processing service (WPS)
 - Catalog service for Web (CSW)
 - Simple Feature Access (SFA- OGC compliance schema for data storage)
 - Styled layer descriptor (SLD)
 - Geographic markup language (GML)
 - Key markup language (KML)



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SMC Base Map Creation



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SMC Base Map Specification

- Base map prepared for SMC area (326.51 sq km) in 1:5000 scales.
- Slum mapping in 1:500 scale

- **Layer Details**

- More than 100 layers

▪ Town Planning Department	: 36
▪ Town Development	: 2
▪ Property Tax Department	: 5
▪ Road & Transport	: 19
▪ Hydraulic Department	: 15
▪ Drainage Department	: 7
▪ Storm Water Department	: 4
▪ Solid Waste Department	: 3
▪ Slum Department	: 2
▪ Birth Date	: 1

- **Projection Details**

- Zone 43
- UTM (Universal Transverse Mercator)
- WGS84

- **AOI**

- Upper-Left Lat. Long. – 21.3050 N, 72.6935 E
- Lower-Right Lat. Long. – 21.0030 N, 73.0032 E



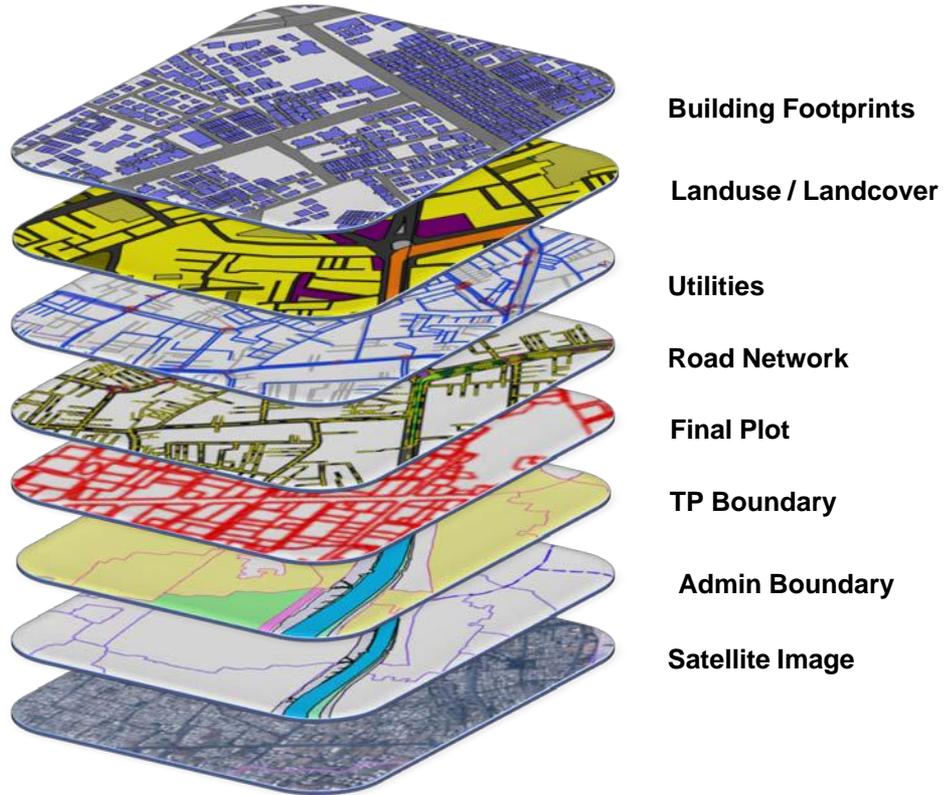
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GIS Data Model

- The GIS Data model of the application included all the relevant information of various departmental layers , type, attributes and source of the data.



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Slum Survey

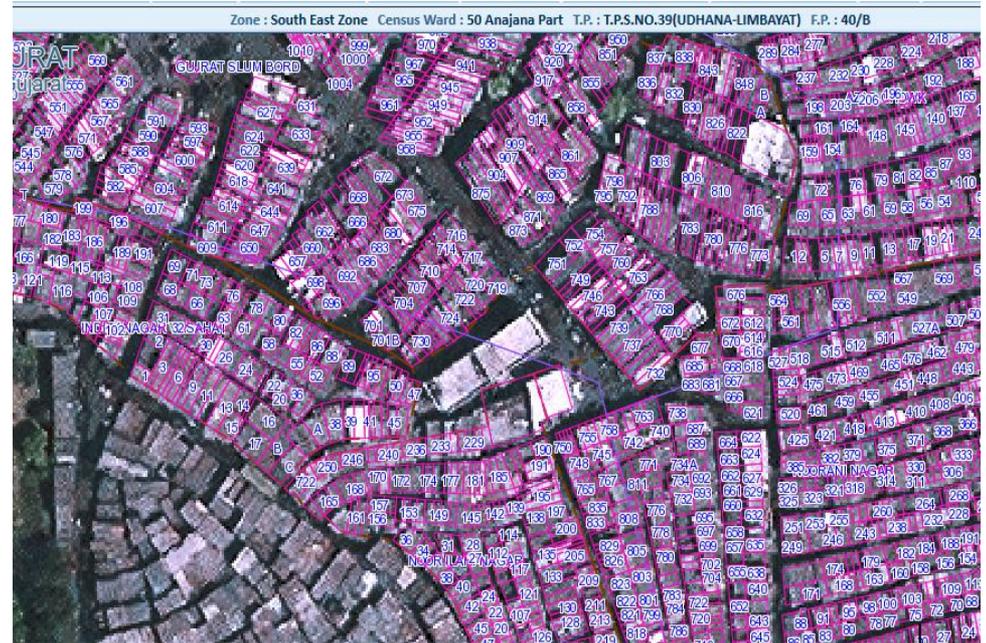
Slum survey carried out as per RAY Guideline and prepared map in 1:500 scale.

Slum mapping carried out using,

- DGPS/Total station survey
- Integration of Socio-economic data

Slum map includes following details.

- Slum boundary
- Slum household boundary
- attributes details as per RAY



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DGPS Survey

GCP points collection using DGPS by taking 72 hrs. observation for each point.



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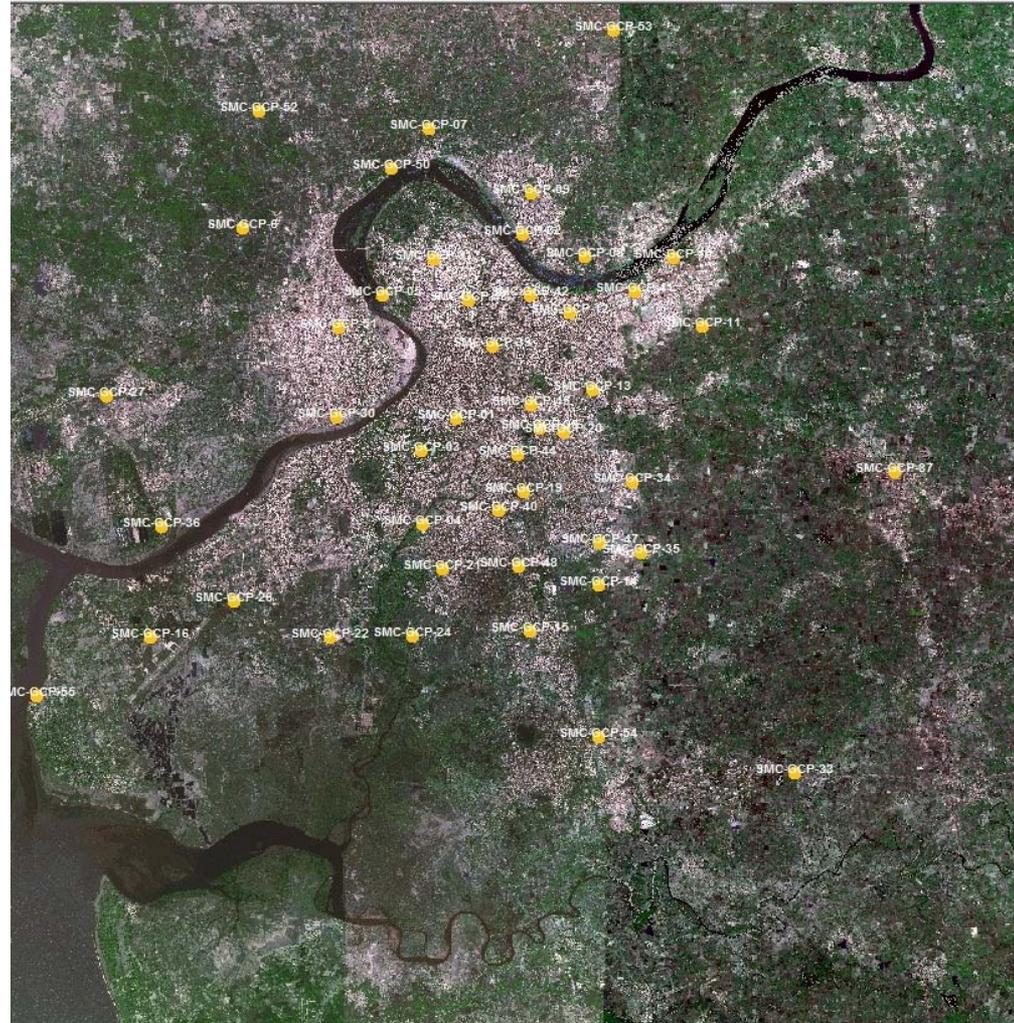


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GCP Points for Geo-referencing



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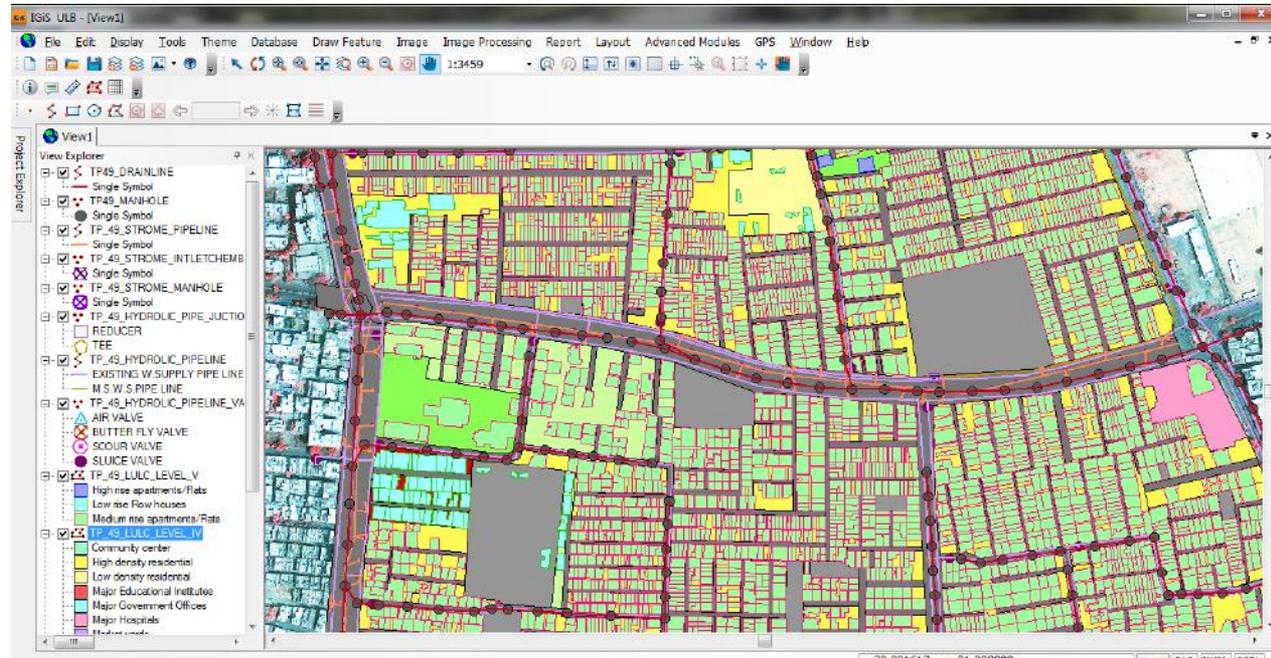


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SMC Final Base Map

Geo-referenced Base map contained,

- ✓ Administrative boundary
- ✓ TP scheme data
- ✓ Landuse data
- ✓ Properties
- ✓ Water Supply
- ✓ Sewerage System
- ✓ Storm Water
- ✓ Drainage System,
- ✓ Road Network
- ✓ Electric poles



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SMC Web Based GIS Application



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Web GIS Application Interface

The SMC Web GIS application is mainly classified in two types of interfaces.

A. Citizen Interface: It consists limited access rights with User Friendly Interface.

- Key features of citizen interface are,
 - Plot Search – by Final Plot, Original Plot and Survey Plot
 - Admin Boundary information
 - Form B/F - Owner information and valuation information
 - Part-print - Plot print with required layers and information
 - Building permission
 - Search – Predefine queries

B. SMC Departmental Interface : It consists various functionalities of different department users of SMC.

- Following are the list of the departments
 - Town planning
 - Building permission
 - Property tax
 - Water supply
 - Sewerage
 - Storm water
 - Road and transportation
 - Bridge
 - Slum

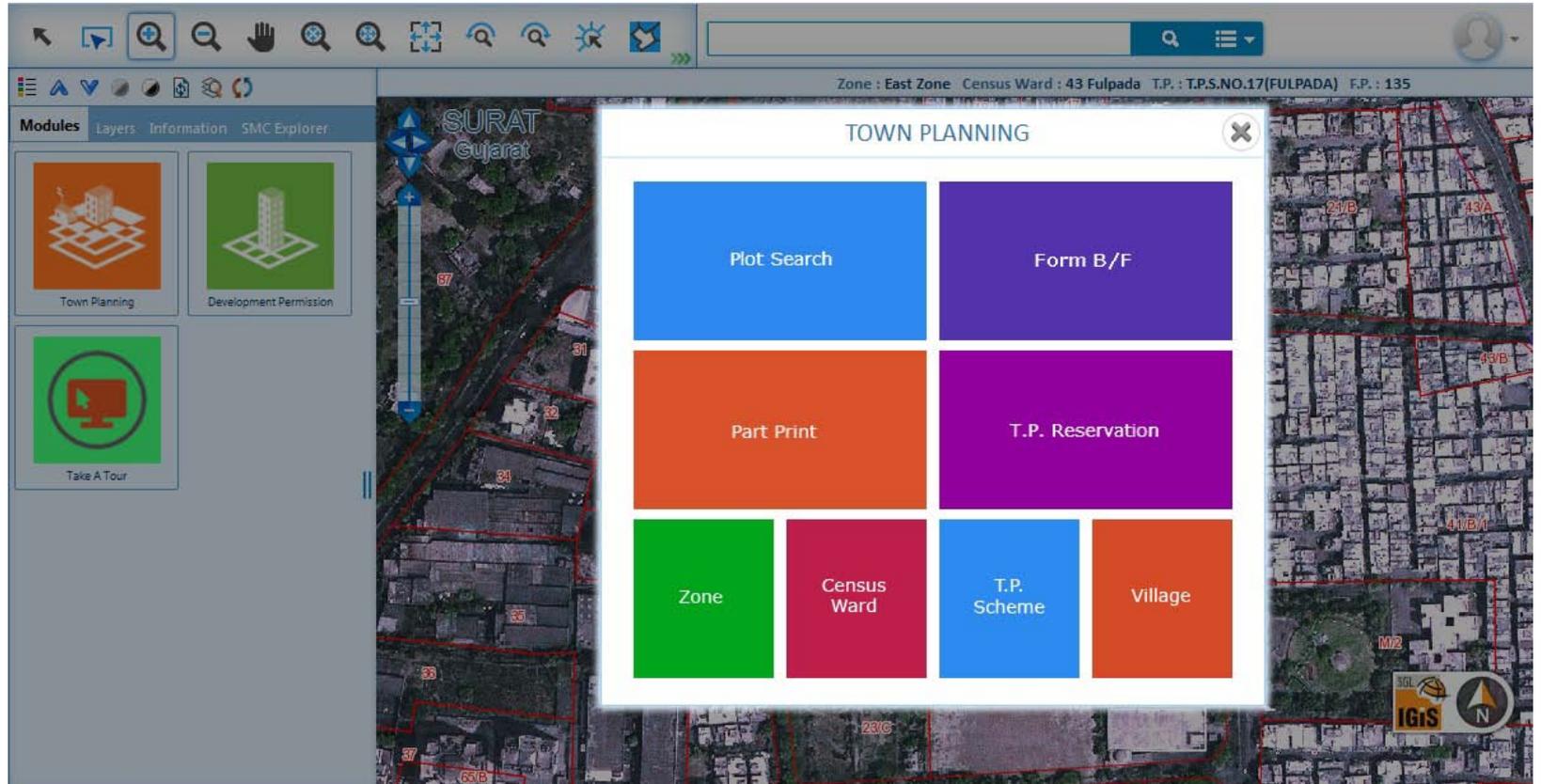


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SMC GIS : Citizen Interface



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SMC GIS: Departmental Interface

The screenshot displays the SMC GIS Departmental Interface, a web-based GIS application. The browser address bar shows the URL 180.211.105.107:8082/#. The interface features a top navigation bar with tabs for different departments: Map Tools, Land, Town Development, Water Supply, Sewerage, Storm Water, Road & Transport, Slum MIS (RAY), Property Tax, Wardwise Information, and Health Information. Below this is a secondary menu with icons for various functions like TP Home, Gamtal, Plot Search, Map Query, Reports, DP Landuse, Reservation, NUIS, Search, Acquisition, Allotment, Pay & Park, Non TP, DP, Reservation, Road Status, Reports, Quick Links, Alignment, Lease-Sales, and Help.

The main map area shows a satellite view of Surat, Gujarat, with a blue river (Tapi River) winding through it. The map is overlaid with various colored polygons representing different land use zones and stages. The legend on the left side of the map lists the following layers and their corresponding colors:

- SMC_IMAGE_2012F (Checked)
- SMC_IMAGE_2006F (Checked)
- TP_BOUNDARY (Checked)
- tp_stage = Being Prepared (Red)
- tp_stage = Draft Sanctioned (Pink)
- tp_stage = Draft Submitted (Purple)
- tp_stage = Final (Yellow)
- tp_stage = Preliminary (Green)
- default (Blue)
- TAPI_RIVER (Checked)
- VALUATION_BOUNDARY (Checked)
- VILLAGE_BOUNDARY (Checked)
- WARD_BOUNDARY (Checked)
- ZONE_BOUNDARY (Checked)
- LIS (Folder icon)
- Water_supply (Folder icon)
- Sewerage (Folder icon)
- Strom_water (Folder icon)
- Property_tax (Folder icon)
- Road_Transport (Folder icon)
- Slum (Folder icon)
- Solid Waste (Folder icon)

The map also includes a scale bar (0 to 5000 m), a north arrow, and a T.P. Global Filter button. The bottom status bar shows the coordinates: X,Y: 275349.012866, 2338988.426687 Lat, Lon: 21.136, 72.837. The browser title is "SGL-UIS - v3.0".



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SMC Web GIS Application Modules

Major modules of GIS based software solution for Urban Development are as follows:

- Land Information System
 - Land (Town Planning)
 - Town Development (Building permission)
- Public Health
- Shops and establishment
- Citizen Interface
- Property Tax
- Utility
 - Water Supply
 - Sewerage
 - Storm Water
 - Road and Transportation
- Slum (As per Rajiv Awas Yojana (RAY) guideline)



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SMC Web Based GIS Application Real Screens



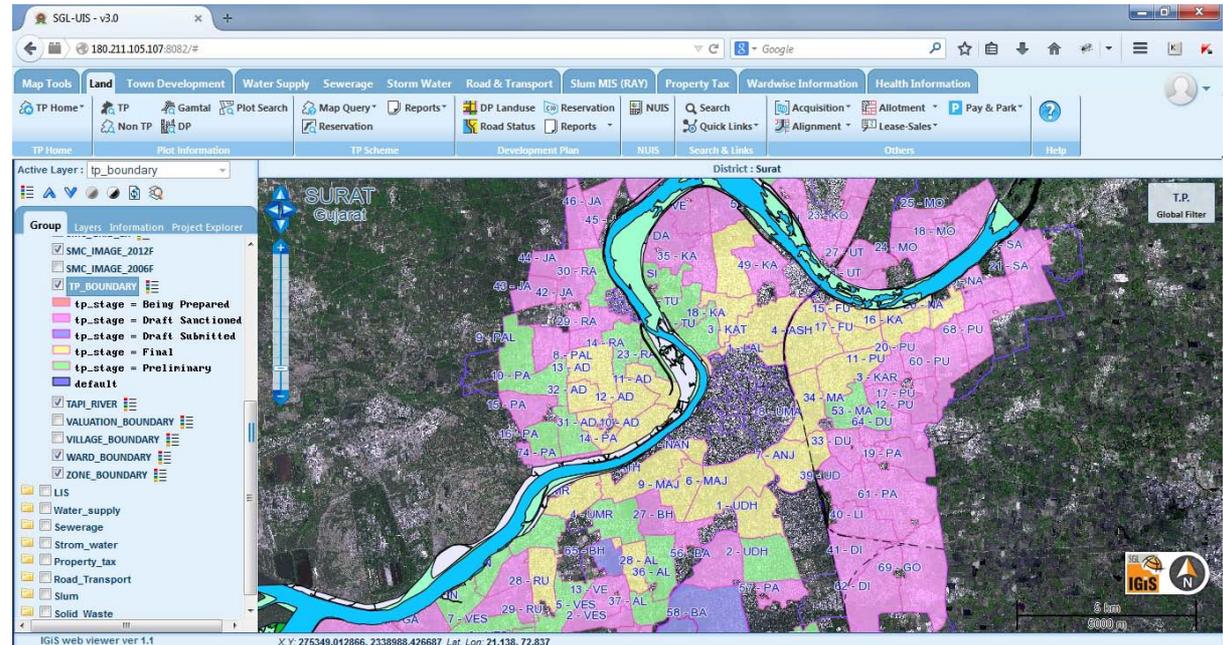
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Land Information System (LIS)

LIS modules includes all the functions and data related to the town planning department.

Key Features.

- ✓ TP and Development Plan details
- ✓ Plot level Information
- ✓ Part-print generation
- ✓ Form B/F report generation
- ✓ Reservation details
- ✓ Landuse details



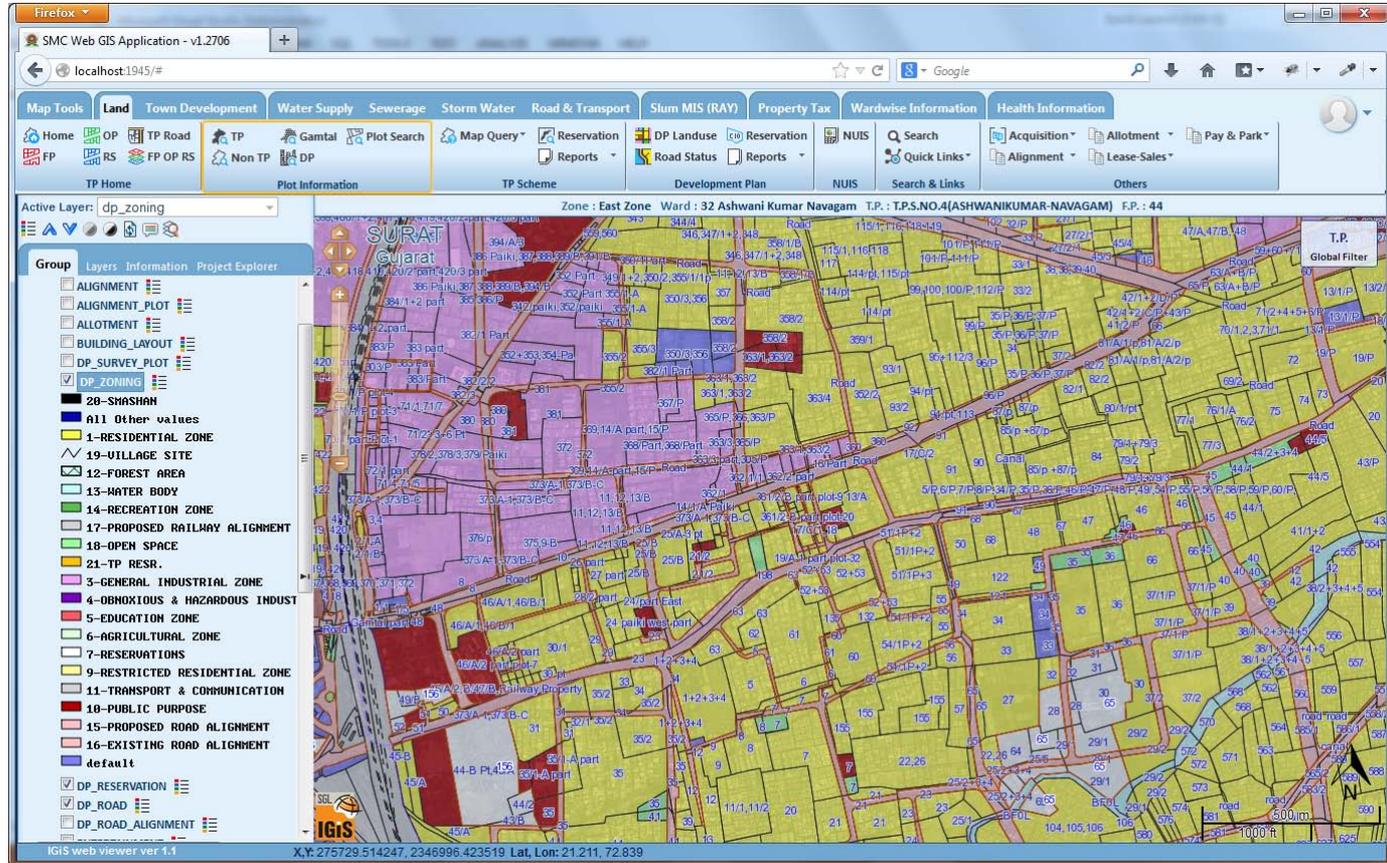
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Land Information System (LIS)

Map of Development Plan



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Land Information System (LIS)

Form B/F report



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FORM - F

THE GUJARAT TOWN PLANNING & URBAN DEVELOPMENT ACT, 1976

Draft Sanctioned - T.P.S.NO.49(KATARGAM)

(SEE RULE 21 & 35)

REDISTRIBUTION AND VALUATION STATEMENT

Case No.	Name of Owner	Tenure	R.S. No.	Original Plot				Final Plot				Contribution (+) Compensation (-) (Section 67) Column 8 (b) minus Column 9 (b)	Increment (Section 65) Column 10(a) minus Column 9(a)	Contribution (Section 66) Percent of Column 12	Addition to (+) OR deduction from (-) Contribution to be made under other Section	Net demand from (+) OR by (-) owner being the addition of column c 11, 13, 14	Remarks			
				No.	Area In Sq.Meter	Value In Rupees		No.	Area In Sq.Meter	Value In Rupees										
						Without reference to value of Structures	Include of Structures			Undeveloped								Developed		
										Without reference to value of Structures	Include of Structures							Without reference to value of Structures	Include of Structures	
1	2	3	8(a)	4	5	6(a)	6(b)	7	8	8(a)	8(b)	10(a)	10(b)	11	12	13	14	15	16	
134	NATHUBHAI BORAHJI CHANDENJI NATHUBHAI BORAHJI SHAJIBHAI NATHUBHAI BANSUBHAI NATHUBHAI KISHANBHAI BANSUBHAI		131	134	15397	5388950	5388950	134	15125	5293750	5293750	14746875	14746875	-95200	9453125	4726963			4631363	SHARE IN P.P. AS PER SHARE IN G.P. Reserved as per Revised P.SUDA-1998 (1-37)
					16387.00					16125.00										



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Town Development (Building Permission)

GIS data integration with building permission details. It includes the project details, technical details, building details, B.U.C. details.

The screenshot displays a web application interface for building permission details. The interface is divided into two main sections: a sidebar on the left containing project details and a main map area on the right showing GIS data.

Project Details:

- Project Status : A
- T.P. Name : 19(Katargam)
- T.P. Stage : Sanctioned Preliminary
- Project Name : MOHANBHAI RAMJIBHAI

LAND

R.S. No.	Block No.	O.P. No.	F.P. No.	C.S. No.
234/2	-	44/2	68	-
234/3	-	44/8	74	-

Applicant Name : MOHANBHAI RAMJIBHAI
 KAMLESHBHAI VASHRAMBHA
Developer Name : Desai Jitendrabhai Haribhai

Profession

- Architect : Labhubhai Nanjibhai Vaghasia
- Structural Designer : Jalil A. Sheikh
- Site Supervisor Name : --N/A--
- Engineer Name : --N/A--

Use Zone : North Zone
D.P. No. : CTDO/OUT/08092011/175
D.P. Date : 08-09-2011

Map Area: The map shows a street grid with various plots. A specific plot is highlighted in purple, indicating the project location. The map includes a scale bar (200 m, 1000 ft) and a north arrow. The map area is labeled with "Zone : North Zone Ward : 42 Katargam T.P. : T.P.S.NO.19(KATARGAM) F.P. : 39".



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Property Tax

Property Tax modules includes the Property and Owner details. It facilitated to execute Map queries and generate reports.

Key Features.

- ✓ Property Identification
- ✓ Owner details with Tax information
- ✓ Map query and Report generation through various criteria

The screenshot displays the SMC Web GIS Application interface. The browser address bar shows 'localhost:1945/#'. The application title is 'SMC Web GIS Application - v1.2706'. The interface includes a menu bar with options like 'Map Tools', 'Land', 'Town Development', 'Water Supply', 'Sewerage', 'Storm Water', 'Road & Transport', 'Slum MIS (RAY)', 'Property Tax', 'Wardwise Information', and 'Health Information'. The 'Property Tax' module is active, showing a map of property parcels in a grid layout. The map is titled 'Zone: North Zone Ward: 42 Katargam T.P.: T.P.S.NO.18(KATARGAM) F.P.: 141'. A 'Property Tax' sidebar on the left contains filters for 'Zone Name', 'Ward Name', 'Sub-Ward Name', and 'Location'. Below these are checkboxes for various criteria: 'Use of Property', 'Tenement No.', 'Property Type', 'Occupancy', 'Age of Property (Between Year)', 'Outstanding (Between Amount)', 'Property Tax (Between Amount)', 'Outstanding Due / Clear', 'Due', 'Clear', and 'Property Area (Sq. Mtr)'. A 'Property Tax Map Query' results table is displayed in the foreground, showing a list of property details.

<input checked="" type="checkbox"/>	View Tax Detail	Tenement Number	Occupancy Code	Property Age	Total Tax	Outstanding
<input checked="" type="checkbox"/>	Tax Detail	01-A-07-0271-0-001	Private	66	1816.5	1969.74
<input checked="" type="checkbox"/>	Tax Detail	01-A-07-0361-0-001	Private	41	4186.06	2677.88
<input checked="" type="checkbox"/>	Tax Detail	01-A-07-0371-0-001	Private	76	2560.5	5337.83
<input checked="" type="checkbox"/>	Tax Detail	01-A-07-0391-0-001	Private	106	2380.28	189.36
<input checked="" type="checkbox"/>	Tax Detail	01-A-07-0471-0-008	Private	55	944	974.42



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Property Tax

Popup shows the property attributes.

The screenshot shows a web browser window displaying the IGiS-UIS v1.0 application. The browser address bar shows localhost:8082/#. The application interface includes a top menu bar with various service categories: Map Tools, Land, Town Development, Water Supply, Sewerage, Storm Water, Road & Transport, Slum MIS (RAY), Property Tax, Wardwise Information, Health Information, and Disaster Management. Below the menu is a toolbar with icons for navigation, measurement, and other functions. The main map area displays a grid of property parcels in blue, with one parcel highlighted in purple. A popup window is open over this parcel, showing a table of attributes for the selected property. The popup title is 'property' and it contains the following data:

Field	Value
ogc_fid	386097
fp_number	78/A
land_use_type	Low rise apartments/Flats
urbanluc_code	01-01-01-01-02
structure_name	HARI DARSHAN
area_name	T.P.S.NO.49(KATARGAM)

The left sidebar shows a layer list with 'Property_tax' selected. The status bar at the bottom indicates the coordinates: X,Y: 274060.820894, 2349632.330342 Lat, Lon: 21.234, 72.823. The scale bar shows 50m and 100ft.



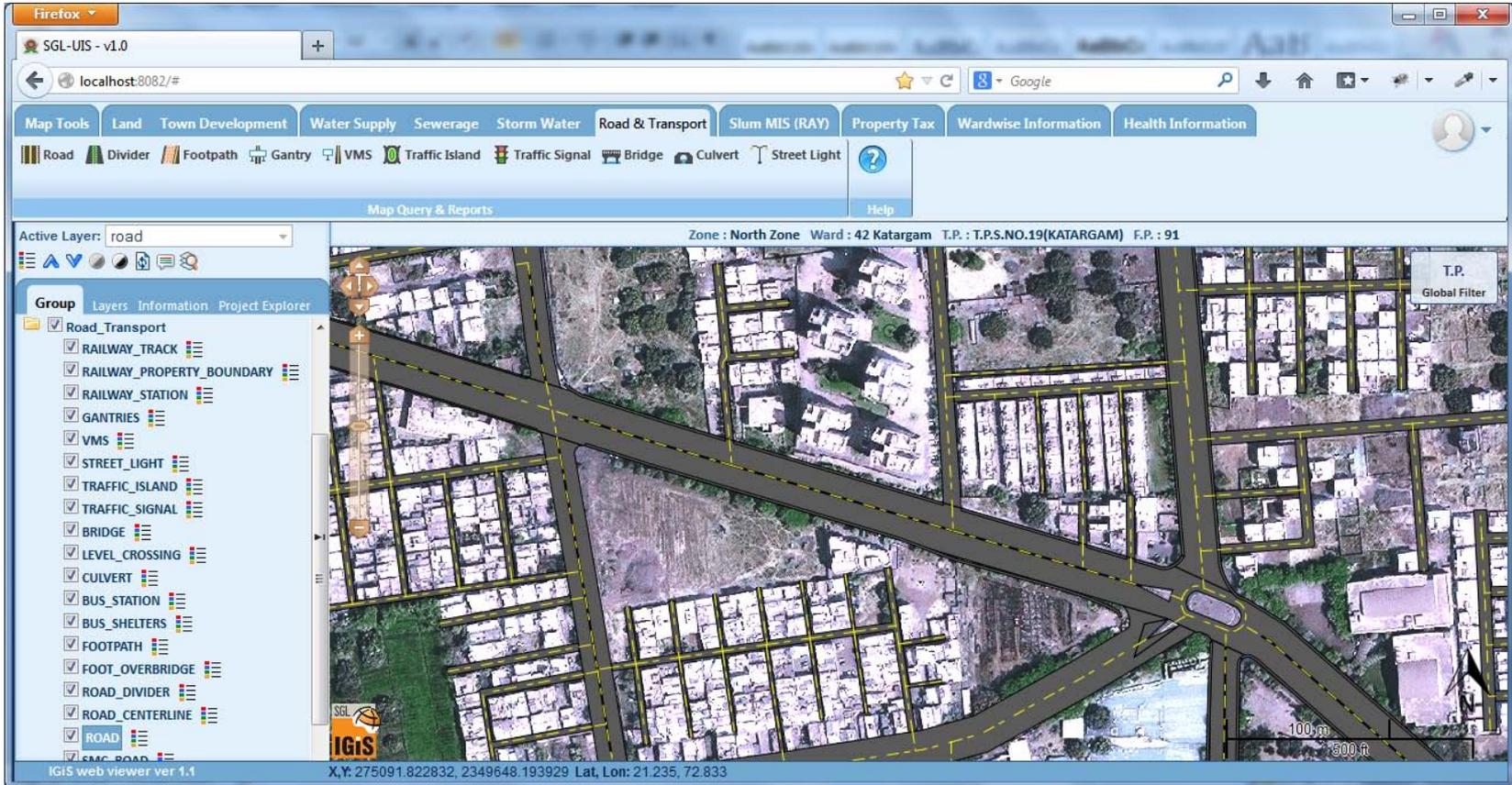
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Road and Transportation

Road and transportation module contains the details of road network like road, bridge, traffic island, etc.



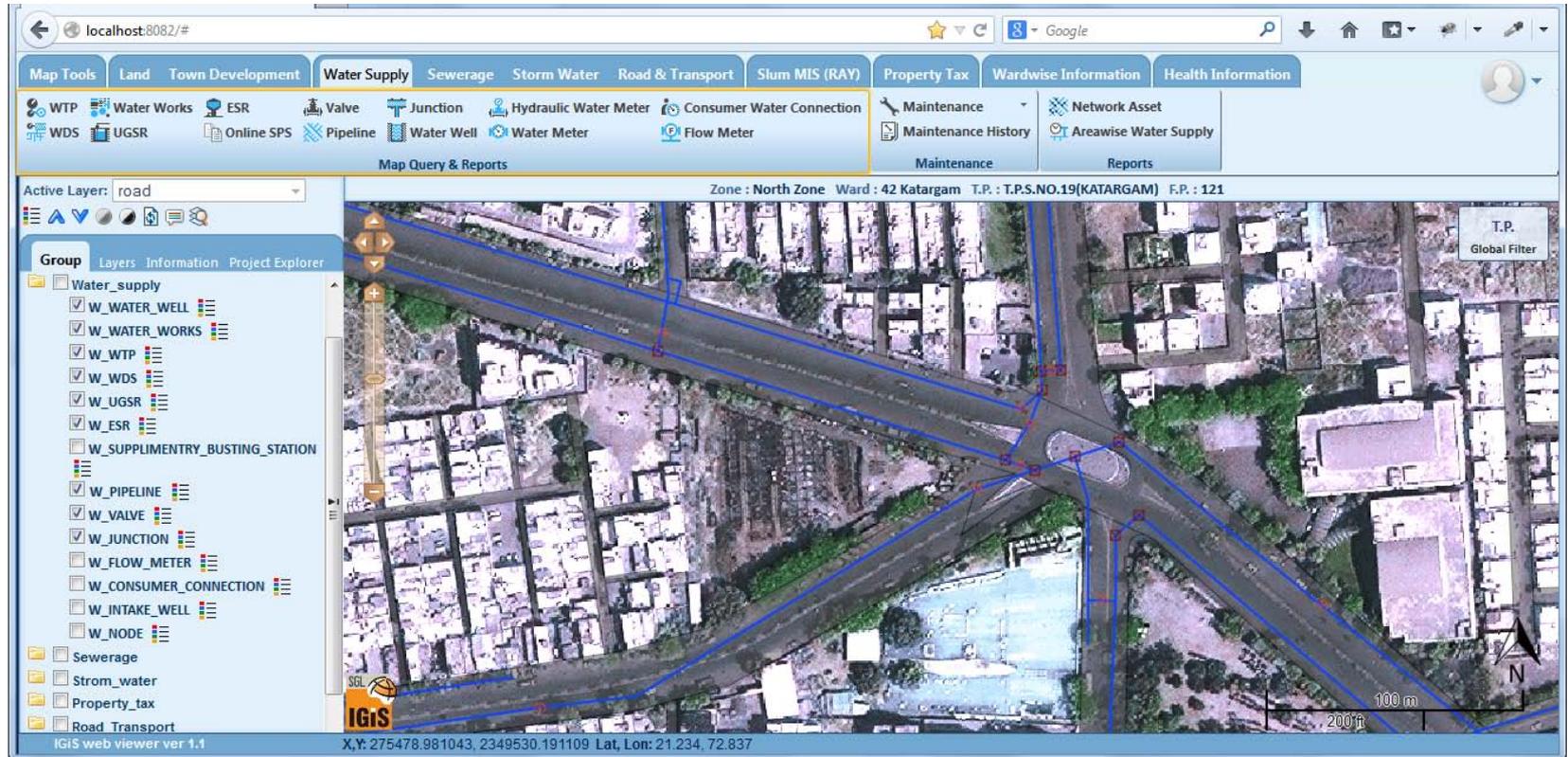
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Water Supply

Water supply module contains the details of water network like water treatment plant, pipeline, valve. etc.



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Sewerage

Sewerage module contains the details of sewerage network like sewerage pumping station, pipeline, STP, etc.

localhost:8082/#

Map Tools Land Town Development Water Supply Sewerage Storm Water Road & Transport Slum MIS (RAY) Property Tax Wardwise Information Health Information

SPS Manhole Pipeline Lift Station CEPT TTP STP Valve Maintenance Network Asset

Map Query Maintenance Reports

Active Layer: road

Zone : North Zone Ward : 42 Katargam T.P. : T.P.S.NO.19(KATARGAM) F.P. : 121

Group Layers Information Project Explorer

- Admin_boundary
- LIS
- Water_supply
- Sewerage
 - SE_MANHOLE
 - SE_PIPELINE
 - SE_LIFT_STATION
 - SE_CEPT
 - SE_TTP
 - SE_SEWERAGE_TREATMENT_PLANT
 - SE_SEWERAGE_PUMPING_STATION
 - SE_VALVE
- Storm_water
- Property_tax
- Road_Transport
- Slum
- Solid_Waste

IGIS

IGIS web viewer ver 1.1 X,Y: 275212.865067, 2349522.282067 Lat, Lon: 21.233, 72.834

Sewerage

City Summary

Pipeline

Type	Segment	Length(mtr)
Gravity	2624	69221.30
Pressure	1	16.50
Total	2625	69237.8

Manhole

Type	Count
Normal	11894
Scrapper	2804
Junction	5465
Total	20163

SPS : 1
STP : 5



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Storm Water

Storm water module contains the details of storm network like pipeline, manhole, inlet chambers etc.

Active Layer: tp_boundary

Zone : North Zone Ward : 42 Katargam T.P. : T.P.S.NO.19(KATARGAM) F.P. : 97

T.P. Global Filter

Storm Water

City Summary

Pipeline

Type	Segment	Length(mtr)
Normal Drain	19962	375374.16
Box Drain	1336	19887.45
Total	21298	395261.61

Manhole

Type	Count
Rectangular	9149
Circular	704
Total	9853

Flap/Sluice Gate

Type	Count
Sluice Gate	0

IGiS web viewer ver 1.1 X,Y: 275055.639308, 2349958.149813 Lat, Lon: 21.237, 72.833



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Slum MIS

Slum MIS module contains the slum maps and socio-economic details. It facilitated to execute map query and generate various reports.

The screenshot displays the Slum MIS web application interface. The top navigation bar includes tabs for Map Tools, Land, Town Development, Water Supply, Sewerage, Storm Water, Road & Transport, Slum MIS (RAY), Property Tax, Wardwise Information, and Health Information. The main content area shows an aerial map of a slum area with pink outlines. A table titled "Result : Household Level General Information" is displayed below the map, showing details for selected households.

Zone : North Zone Census Ward : 42 Katargam T.P. : T.P.S.NO.19(KATARGAM) F.P. : 53

Slum Name : 24 selected

Slum Map Query

Get Details Of : Slum Slum-HouseHold

Household Level General Information

Slum Reports

	Zone	Ward	Slum	Household ID	Family Head	Father Name	Sex	Caste	
<input type="checkbox"/>	Select Filter	Select Filter	Select Filter				Select Filter	Select Filter	S
<input type="checkbox"/>	North Zone	42 Katargam	AMBATALAWADI-2	122	REKHABEN RAT...	PRAVINBHAI RA...	Female	ST	Hi
<input checked="" type="checkbox"/>	North Zone	40 Dabholi	HALPATIWAS DA...	58	BHARATBHAI PA...	PARSOTTAMBH...	Male	ST	Hi
<input type="checkbox"/>	North Zone	40 Dabholi	HALPATIWAS DA...	78	JAYANTIBHAI G...	GOMANBHAI P...	Male	ST	Hi
<input checked="" type="checkbox"/>	North Zone	40 Dabholi	HALPATIWAS DA...	79	MADHABHAI KA...	KANABHAI ALAB...	Male	SC	Hi
<input checked="" type="checkbox"/>	North Zone	40 Dabholi	HALPATIWAS DA...	81	SURENDRABHAI...	MISHRESHIR NA...	Male	ST	Hi

Go to page: 1 Show rows: 5 1-5 of 37

Output Columns For CSV : 22 selected



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Citizen Interface

The citizen interface provides access to public user of some functionalities defined by SMC from 3rd January -2015.

Key Features

Plot Search

Form B/F Report

Part-print generation

Building permission details

Project details

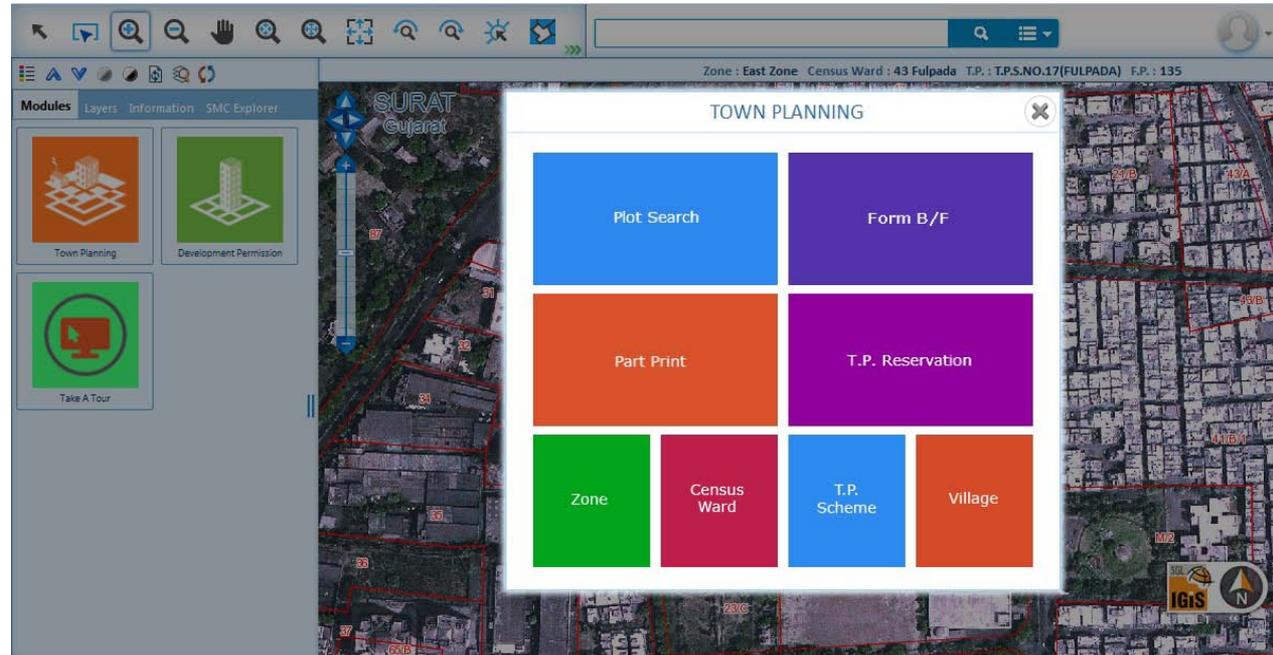
Technical details

Building details

COP and parking area

BUC details

Search



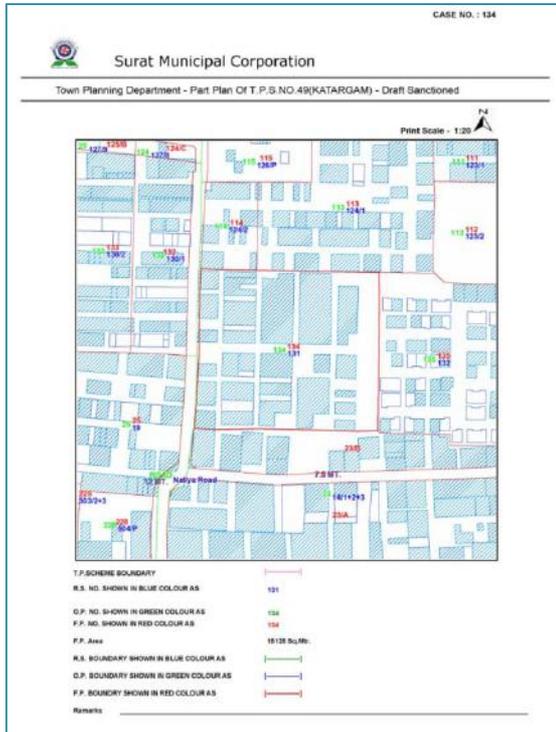
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Citizen centric facility

- ✓ SMC started to provides Form B/F Reports and Part-print from its Civic Center to citizen




FORM - F
 THE GUJARAT TOWN PLANNING & URBAN DEVELOPMENT ACT, 1976
 Draft Sanctioned - T.P.S.NO.49(KATARGAM)
 (SEE RULE 21 & 35)
REDISTRIBUTION AND VALUATION STATEMENT

Cm No.	Name of Owner	T. P. No.	P. S. No.	Original Plot		Real Plot				Contribution (a) (Section 67) minus Column 9 (d) & (3)	Increment (Section 65) Column 10(a) minus Column 9(a)	Contribution (Section 65) Payment Column 12	Addition to (c) OR deduction from (c) Contribution to be made under other Section	Retained from (c) OR by (d) owner being the addition of columns 11, 12, 14	Remarks			
				No.	Area in Sq.Meter	Without reference to value of Structures	Include of Structures	No.	Area in Sq.Meter							Without reference to value of Structures	Developed Include of Structures	
1	2	3	4	5	6(a)	6(b)	7	8	9(a)	9(b)	10(a)	10(b)	11	12	13	14	15	16
134	MADHUSUDAN MOHARGALJI CHANDRANATHJI MADHUSUDAN MOHARGALJI BHAGUBENJI MADHUSUDAN MOHARGALJI MADHUSUDAN MOHARGALJI MADHUSUDANJI	131	134	15397	5388992	5388992	134	15125	5293782	5293750	1474875	1474875	-95200	9453125	4726963		4531363	SHARE IN P.P. AS PER SHARE IN O.P. Reserved as per Revised P.P. SUDA-1936 (9/37)
				15397.00			15125.00											

SMC Smart City Centre



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Recently added new GIS Services

After successful completion and go-live of the web based GIS application, the department has added new services for public domain to enhance the public facility using implemented GIS system.

1. Health Monitoring : Dynamic Health Heat Map overlay on GIS system of Surat area
2. Building permission information for citizen
3. B.U.C. (Building Usage Certificate) issued details

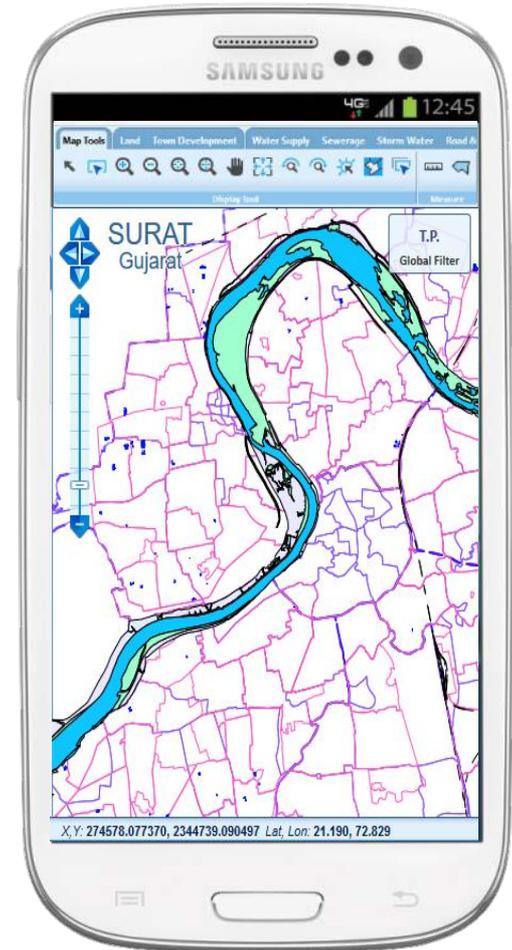
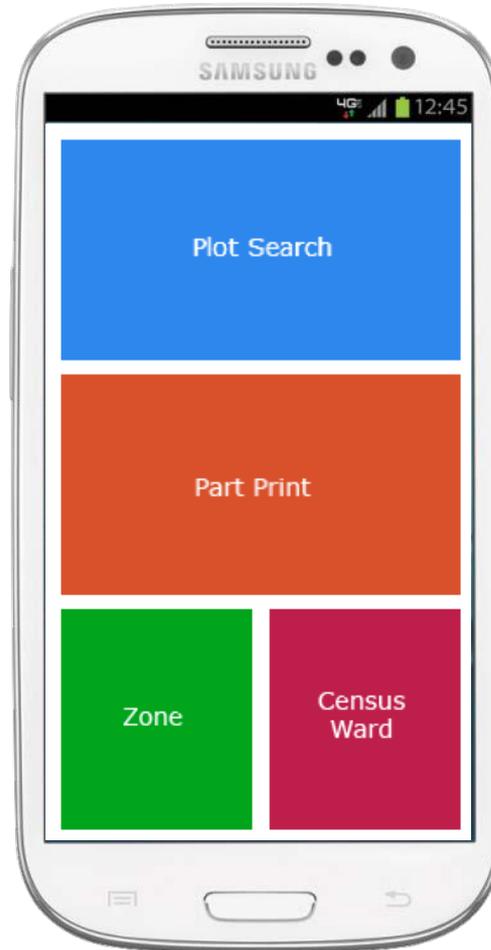
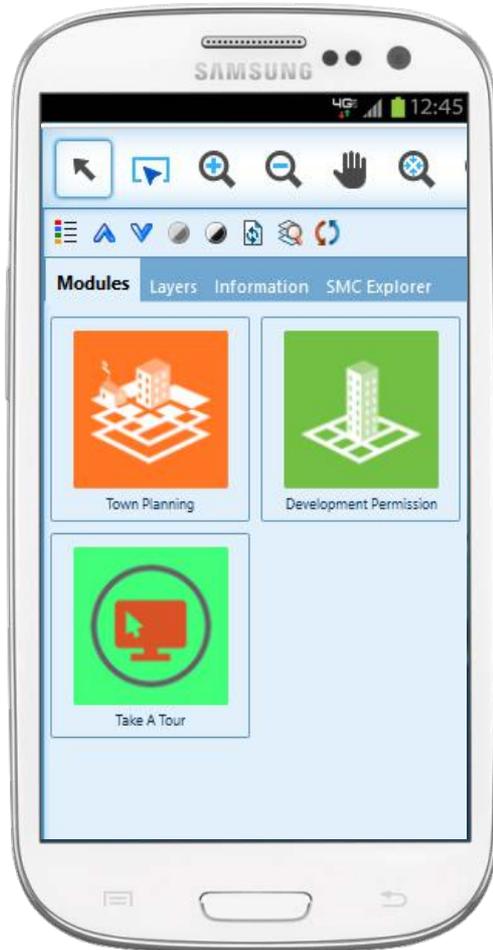


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Future SMC GIS Mobile App



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Benefits

1. Paper less Governance
2. Improved Asset Management And Decision Making
3. Improved revenue realization
 - Geographical representation of Tax defaulters
 - All departmental tax details in one geographical entity
4. Efficient Planning and Decision Making
 - Master Plan Creation
 - Urban Sprawl Study
5. Central Repository for all department
6. Grievance Management



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Tangible Achievement

- ✓ Single geo-referenced map for all department.
- ✓ Centralized GIS system for successful governance
- ✓ Efficient revenue generation by identifying the un-assessed property using satellite Image
- ✓ Improves Urban Planning using GIS system
- ✓ On click Map related information for citizens and departments
- ✓ Citizen can get authorize plot map information and building permission using internet which saves time and money.
- ✓ Minimize dependency among the departments using centralized Geo-referenced base map.
- ✓ GIS map can be access by other external department using OGC web services.
- ✓ Geo-referenced Map enables monitoring of real time data capturing form ground using GPS/Mobile technology.



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Future Plan

- ✓ Yearly procurement of satellite image and timely updation of property map and other layers.
- ✓ Implemented GIS system will be integrated with other systems like SCADA.
- ✓ Integration of SMC mobile apps to support day to day activities of SMC officials.
- ✓ SMC GIS maps provide through secured service to legal department, bank, insurance agency and other authority.
- ✓ Implementation of Health mapping and monitoring system through details of vector bone dieses.
- ✓ New Property ward scheme shall be developed from the property linked base map
- ✓ Integration of street light pole complaint management system and Energy consumption map.
- ✓ SMC GIS maps provide through secured service to legal department, bank, insurance agency and other authority.
- ✓ Implementation of Health mapping and monitoring system through details of vector bone dieses.
- ✓ Integration of Tree mapping along with attributes detail



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Future Plan

- ✓ New Property ward scheme shall be developed from the property linked base map
- ✓ Integration of street light pole complaint management system and Energy consumption map.
- ✓ A recovery status map can be prepared with property details.
- ✓ Vehicle tracking system for Solid Waste Management
- ✓ integrated and highlight the illegal constructions/activities.
- ✓ Highlight the fire incidences on base map.
- ✓ Identify illegal boards and hoardings in city by enforcement team.
- ✓ Water Supply connections to be integrated with property map data.
- ✓ Solid Waste Management system for mapping and track of container pickup.
- ✓ Integration of detailed attribute information of Anudan Society.
- ✓ Integration of Pay & park map with complaint management system.
- ✓ Integration of RTO data of vehicle owners with tenement and cell phone.
- ✓ Prepare inundation GIS map and generate flood alert system.



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SMC GIS developed using Indigenous technology

- SMC Web GIS application has been developed using indigenous technology IGiS (Integrated GIS and Image Processing Software) Developed by ISRO GOI jointly with SGL.



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Thank You

