

Kanpur Municipal Corporation

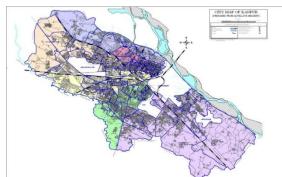
Motijheel, Kanpur

Web-site: http://kmc.up.nic.in

E-mail: kanpur_nagar.nigam@yahoo.co.in

Welcome















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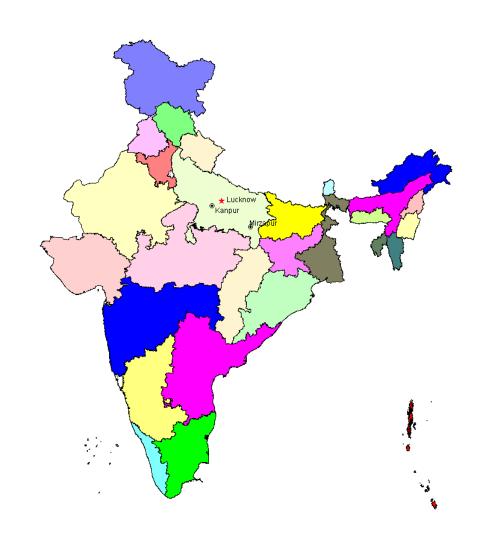
KMC GOVERNMENT PROCESS RE-ENGINEERING

Through the project-

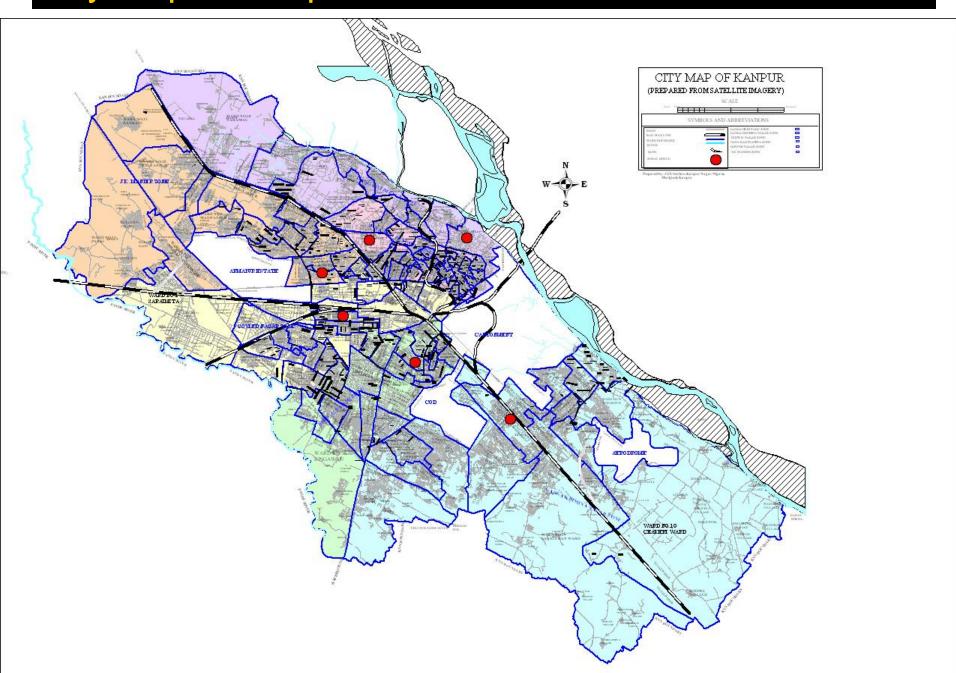
KMC On-line Property Tax Management System Using Geospatial Technology

ABOUT KANPUR

- OLocated in the State of Uttar Pradesh.
- OSituated along the River Ganga.
- OLeather Capital of India



City Map of Kanpur & Zonal Office Locations



About Kanpur Municipal Corporation

Administrative Divisions

Up Nagar - 6

(with 18/19 wards)

Wards - 110

Population - 27.98 Lakhs.

(2011 census)

Area - 260 Sq.K.m

Landuce Dattern of Kannur

Total

2.3%

16.3%

11.4%

14%

1.5%

5.6%

Latiu use i	attern or Kar	<u> Kalipul</u>		
Land Use Type	Area (Sq.Km)	% of Area		
Residential	150	48%		

50

35

43

4.5

17.5

2500 Km.

Ganga,

Pandu

Commercial

Park and Open space

Roads and Railways

Rivers/Water Bodies

Industrial

Agriculture

Vacant Land

Forests



Kanpur Railway Station



Mega Mall



Ganga Barrage



J.K.Temple





Green Park Stadium



Japanees Garden



I.I.T.Kanpur



Kanpur University

Objective of the KMC On-line Property Tax Management System Using Geospatial Technology

To develop required infrastucture, software, Property tax Assessment List, online property tax calculation, information & payment system based on Geographical Information System (GIS)

An Over View of The Project

- 1. For the first time the e-governance is GIS enabled and forms a Spatial decision support system in a local government.
- 2. The system has resulted in enhancing the coverage by more than 50% & property based tax revenue to two times as compared to the system that existed prior to the introduction of the GIS based application.
- 3. The other positive fallouts of this Endeavour have been:
- Transparency in governance
- Reduction in delays in government processing of grievances
- Online tax payment and status verification facility removes intermediary agents facilitating the same.
- Better revenues for investments into civic facilities

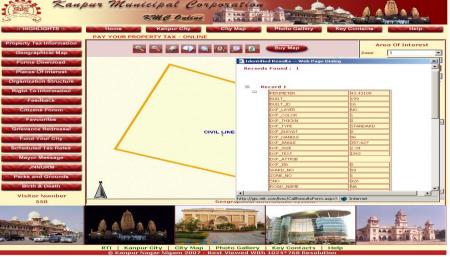
GIS based spatial searching and identification of properties





Kaupur Municipal Corporation





On-Line Tax Calculation System



Parvez Khan

Parvez Khan

116/64. Basheer Estate

Close



Name Of Owner

Name Of Occupant

Plot Number & Address

Kanpur Municipal Corporation

Self Assessment Of Property Tax For Residential Buildings

As Stated In Section-207

Form A & B

select Zone			6			
Select Ward			Nave	en Nag	ar Kakaded	
otal Area in Sq.Ft. :			1800			
otal Covered Area in Sq.F	't. :		2400			
ear Of Construction ocation			1999			
	0	< 12m Road	O > 12m & < 2	m Road	0>	- 24m Road
Type Of Construction :						
OPakka (*A Grade) Decupation in the Building		cka (*B Grade)	OKachha	0	Plot Area / Op	en Land
O Self Oc	cupied	ORented/Te	enanted Property		OMixed	OOtherwise Occupied
Annual Rateable Value Of	Structure/E	Building in Rs.	1686			
ax Of The Structure/Build	ling in Rs.		253			
		Calcu	ılate Tax	View Ta	x Calculation	1

Owner/Occupier Signature

Important Information Related To Self Assessment Of Property Tax

- Proposed Property Tax Assessment process is applicable only to residential land or buildings.
- 2. At present there are two tax rates based on annual rental value. For Annual Rental Value (ARV) upto Rs. 1200/- it is @10% and for ARV more than Rs 1200/- it is @15%.
- 3. Owner / Occupiers of buildings which are under construction should submit 'Saral Form' (Self Assessment Form) and the due tax as soon as the building is completed or occupied whichever is earlier, or else a penalty as specified in the Penalty Provisions will be imposed.
- the building is completed or occupied whichever is earlier, or else a penalty as specified in the Penalty Provisions will be imposed.

 4. Yearly rent will be assessed based on the total area of rooms & vehrandas. Partial rebate will be applicable as specified in Partial Rebate
- 5.(1) Where the owner or occupier primarily liable for payment of tax in respect of any premises has not paid by the date fixed by the Corporation in this behalf the tax or a part of the tax payable by him under this Act, simple interest at the rate of twelve percent per annum from the date fixed for payment of tax upto the date of payment shall be payable by him upon the amount that has remained unpaid.

View Stepwise On-Line Tax Calculation System



Close

Tax Calculation Process

Parway Khan

Owner's Name:	Farvez Khan
Occupant's Name:	Parvez Khan
Occupation in the Building:	Self Occupied
Plot No & Address:	116/64, Basheer Estate
Zone Number:	6
Ward Name:	Naveen Nagar Kakadeo
Ward No.:	57.0000000
Total Area in Sq.Ft.:	1800
Covered Area in Sq.Ft.:	2400
Year Of Construction:	1999
Age in Years:	10
Type Of Construction:	Pakka (*A Grade)
Road Width:	< 12m Road
Rate of monthly rent(Rs./Sq.Ft.):	1.05

Steps Of Tax Calculation:

Owner's Name:

Step 1:	ARV = 80% of Covered Area * Residential Factor * 12
	ARV = 80 *2400 * 1.05 * 12 / 100
	ABV - Pc 2248

Step2: For Self Occupied Properties :

1. If the age of residential building is <=10 years, then ARV to be reduced by 25%.

(Note: Monthly Rent is based on the Ward Number, Construction type and Road Width.)

- 2. If the age of residential building is >10 and <=20 years, then ARV to be reduced by 32.5%.
- 3. If the age of residential building is >20 years, then ARV to be reduced by 40%.

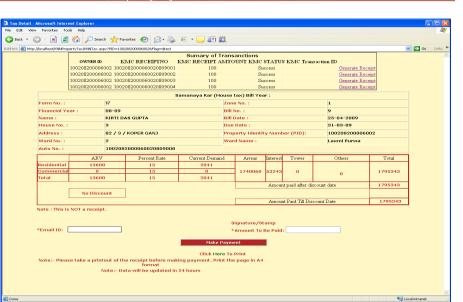
Here the building age is 10 years, therefore the ARV is: Rs. 1686

Step3:

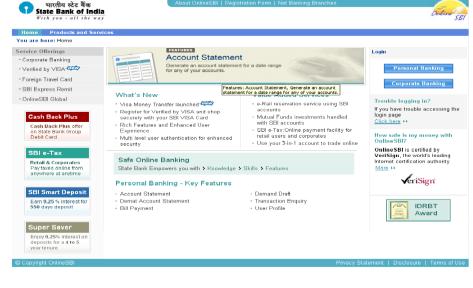
1. If Proposed ARV <=1200 then Annual Tax Rate = 10% of ARV.

On-Line Tax Payment System









Ward-wise rates for Residential/Non-Residential Properties



Maximum Monthly Rent rates(Rs./ Sq. Ft/ Month)-2006 for Tax Assesment of all the Residential buildings/plots of 110 wards of KMC. These rates will be effective since 01/04/2006 to 31/03/2008 or till the date revised tax rates are made effective.

S.No	Ward Name	Pakka	Bhawan RCC	or RBC	Other Pakka Bhawan			Kacha Bhawan			Residential Plot In Which Building is Not Constructed		
3.140	y waru Name	>24m road	12 to 24m road	<12m road	>24m road	12 to 24m road	<12m road	>24m road	12 to 24m road	<12m road	>24m road	12 to 24m road	<12m road
1	Old Kanpur	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
2	Laxmi Purwa	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
3	Govind Nagar Harijan Basti	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15
4	Gwaltoli	1.30	1.05	0.85	1.05	0.85	0.60	0.85	0.60	0.50	0.15	0.15	0.15
5	Chhuni Ganj	1.75	1.45	1.35	1.45	1.35	1.30	1.35	1.30	1.05	0.25	0.20	0.15
-6	Mecrobert Ganj	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
7	Nirala Nagar	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
8	Maswanpur	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15
9	Vishnupuri	1.45	1.35	1.30	1.35	1.30	1.05	1.30	1.05	0.85	0.25	0.20	0.15
10	Chkeri	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15
11	Jawahar Nagar	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
12	Transport Nagar	1.75	1.45	1.35	1.45	1.35	1.30	1.35	1.30	1.05	0.25	0.20	0.15
13	Khalasi Line	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
14	Ambedkar Nagar	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
15	Permat	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
16	Khyora	1.30	1.05	0.85	1.05	0.85	0.60	0.85	0.60	0.50	0.15	0.15	0.15
17	Saraimita	0.85	0.60	0.50	0.60	0.50	0.45	0.50	0.45	0.40	0.15	0.15	0.15
18	Kalyanpur	1.30	1.05	0.85	1.05	0.85	0.60	0.85	0.60	0.50	0.15	0.15	0.15
19	Sanigawan	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15
20	Naramau	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15
21	Raipurwa	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
22	Behna jhabhar	1.45	1.35	1.30	1.35	1.30	1.05	1.30	1.05	0.85	0.25	0.20	0.15
23	Sabzi Mandi Kidwai Nagar	1.75	1.45	1.35	1.45	1.35	1.30	1.35	1.30	1.05	0.25	0.20	0.15
24	Usmanpur	1.35	1.30	1.05	1.30	1.05	0.85	1.05	0.85	0.60	0.20	0.15	0.15
25	Juhi Hamirpur Road	1.05	0.85	0.60	0.85	0.60	0.50	0.60	0.50	0.45	0.15	0.15	0.15



🎁 start















Internet

Information Availability

☐An overview of the City **□**On-line property tax calculation ☐ Hassle free online property tax payment facilities A facility to access different maps based on Zones, Wards and Property □GIS based spatial searching and identification of properties ■ Monthly per sq. feet rates used for calculation of property tax. □Circle rates of property used for the calculation of property tax for non-residential properties. □Ward wise/Property wise maps with civic infrastructure details like roads, lanes, by lanes, parks, electric poles, telephone poles, railway lines, hotels, hospitals, police

stations, schools, cinema hall etc.

Property tax

- Total population 2551337 (as per census 2001) ,27.74 Lac as per provisional report census 2011
- Total population in slums 4.90 Lac
- Total no. of assessed holdings 450764
- Total no. of un-assessed holdings Our General Survey is recent and day to day updation is being made.
- Numbers of exempted properties 3692
- Breakdown of properties category wise- (in U.P. their are only two categories for all properties:

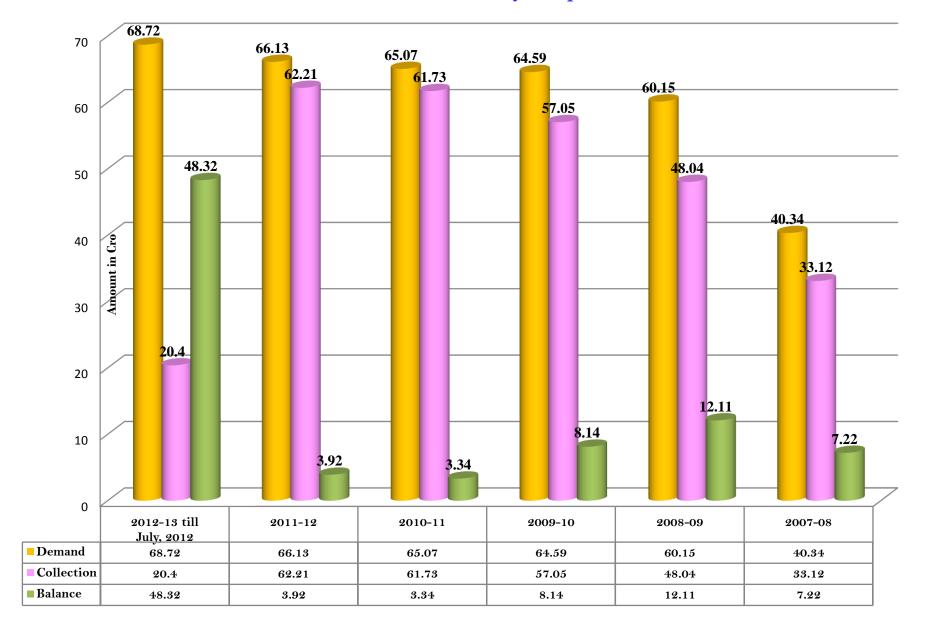
Total No of Residential Properties :- 367362

Total No. of Non Residential Properties: - 83402

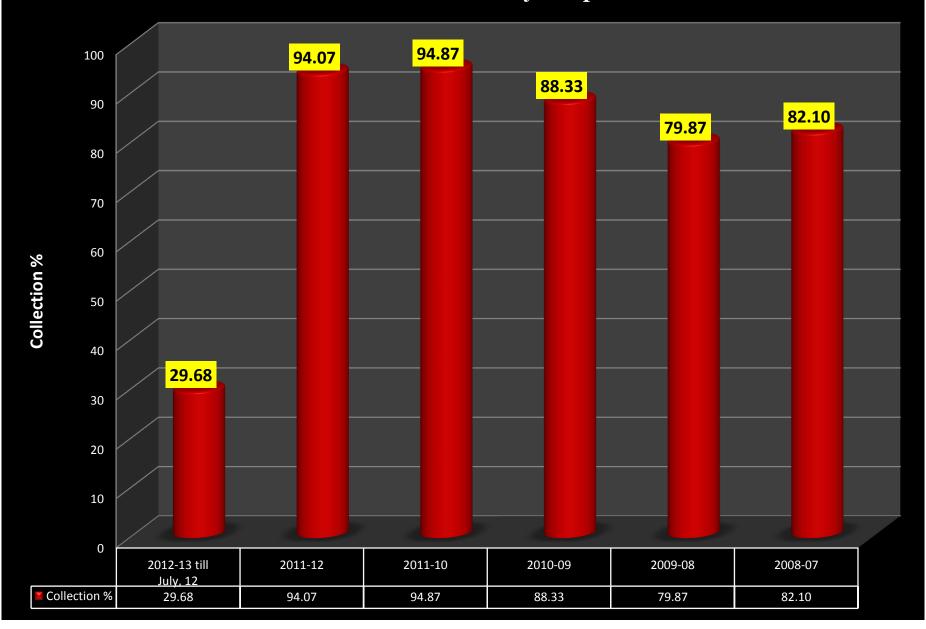
Year		Demand		Collection				Balance	Total	
	Arrear	Current	Total	Arrear	Current	Total	Arrear	Current	Total	Percentage of Collection
2012-13 till July-12	3.92	64.80	68.72	1.72	18.68	20.40	2.20	46.12	48.32	29.68%
2011-12	3.34	62.79	66.13	3.11	59.10	62.21	0.23	3.69	3.92	94.06%
2010-11	8.14	56.93	65.07	7.35	54.38	61.73	0.79	2.55	3.34	94.87%
2009-10	12.11	52.48	64.59	6.15	50.3	57.05	5.96	2.18	8.14	88.33%
2008-09	7.22	52.93	60.15	4.39	43.65	48.04	2.83	9.28	12.11	79.87%

Kanpur Nagar Nigam

Collection Efficiency Graph



Kanpur Nagar Nigam Collection Efficiency Graph



&W&RDS

International SAG Award-2012

Project has been awarded Special Achievement in GIS (SAG Award) to recognize the outstanding works with GIS technology among 1,00,000 others all over the world. The Award will be presented during the 2012 ESRI International User Conference at San Diego, USA. This year the ESRI International User Conference is being organized on July 23-27, 2012.

• Special Achievement in GIS in India (SAG Award) Award

Project has been awarded Special Achievement in GIS in India (SAG Award) Award delivered by Sri Sailesh Nayar, Secretary Science & Earth, Govt. of India dated 08.12.2011 at 12th ESRI India User's Conference, New Delhi.

• U.P. State e-Governance Awards-2009-10

Project has been awarded U.P. State e-Governance Awards-2009-10 in the project category "Government Process Re-engineering" delivered by Sri Anoop Mishra, Chief Secretary Govt. of Uttar Pradesh dated 07.12.2011 at Lucknow.

• CSI-Nihilent Award-2011

Project has been awarded CSI-Nihilent Award-2011 in the project category G2C, delivered by Computer Society of India dated 02.12.2011 at Ahmedabad.

• The Top-100 ICT Projects in INDIA during 2011 & Awarded certificate of Merit

For Unique Property Numbering System delivered by Sri Montek Singh Ahluwaliya, Vice-Chairman, Planning Commission, Govt. of India, dated 1st Sept., 2011 at SKOCH ICT India Award 2011, New Delhi.

SKOCH "ICT INDIA AWARD-2010"

For Property Tax Management System, delivered by Sri Jaipal Reddy, Minister of Urban Development, Govt. of India dated 01.09.2010 at SKOCH ICT India Award 2010, New Delhi.

• Indian Geospatial Award-2009

For utilizing geo-spatial technologies as part of e-governance initiative in 2010 delivered by Sri T. Ramaswamy, Secretary Information & Technology, Govt. of India, at New Delhi.

• Geo-spatial excellence award-2009

For best decision support system in local Government in 2009 delivered by Sri Saurabh Gupta, Editor GIS Development Magazine, dated 12.02.2009 at Map World Forum, Hyderabad.

ACHIEVEMENTS

- Project has been published as one of the best practice by:- <u>PEARL</u> (An initiative under JNNURM) volume -2.
- Project has been published as one of the best practice by ASCI, Hyderabad.
- Project has been published as one of the best practice by Computer Society of India, 2011.
- A paper based on this project has been published in the Arc India News magazine January-March 2009 edition volume-3.

Geospatial Excellence Award 2009

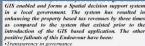
A paper was presented at "Map World Forum 2009", organized at Hyderabad in which the project was awarded Geospatial Excellence Award 2009 for "Geospatial Application for Decision Support System in Local Government."





KANPUR MUNICIPAL CORPORATION

A Poster Presentation has been Awarded in "ESRI India User Conference 2009-10" at New Delhi



 Reduction in delays in government processing of grievances Online tax payment and status verification facility removes

intermediary agents facilitating the same. ·Better revenues for investments into civic facilities

Property Survey & GIS database Creation

Quickbird satellite data was procured and geo-referenced based on the Ground survey conducted 1:1000 scale was created through digitization of satellite imagery and supplemented with secondary ground survey to capture information on covered / carpet area, land use, occupant's details, condition of structure, etc. The mapping done using the Quick bird Satellite data was used for conducting the primary contact property

Kanpur Municipal Corporation (KMC), is one of the commercial and industrial Municipal Corporation n Littar Pradesh India extended to a total area of about Sq KM with a population of about 2.5 Million

KMC is using ESRI software ArcSDE, ArcView since ear2002. We had a (total station) digital map of Kanpur City and the map was integrated with other property tax related attribute data in the desktop platform. In year 2006 the KMC decided to update the digital

aps with the help of Quick Bird imagery, updation of fferent ESRI soft wares along with development of a



As a part of the e-governance initiatives, KMC aged development of an online web & GIS based property tax calculation information & payment system as a pioneering effort in the country. The job was formally tendered and the work was awarded to ESRI India on basis of best technical cum financial performance. The scope of this work covered the following are the major

·Creation of a GIS based spatial property databa

KMC jurisdic •Geo-rectifica the GCPs colle

•Updation of a the help of geo preparation o •Conduct a proper

·Development of GIS system for only

•Development of de database repositor ·Supply and Install:

networking with ser •Training of KMC Renumbering of presented in the presented in no. and fixing of ho The Scope of work categorized into tw requirements of the Property Survey &

Application Deve

conditional queries on database such as 'Tax collected by Zone' or 'Tax collected in a financial year for a selected ward', etc. The database is linked to spatial layers to display results of analysis and queries on GIS maps. The application also enables the KMC staff to calculate tax based on digitized areas taking into account the Unit Area Method and generate various kinds of MIS reports required in the day to day operations of KMC. Primary focus of the application was to provide a server based Geographical Information System with key spatial layers and links to the relevant textual / graphical information

anagement of many of the public services, considering the complexity of the Indian metropolitan house pattern it is very difficult to find out full proof numbering system. However with application of modern tools like GIS it has become easy to design a logical and consistent numbering system.

Considering the actual scenarios in Kanpur, the numbering system which is practical for Kanpur will be a administrative boundary based numbering system. In this system, the house number or premise number is unique within the smallest administrative boundary that is Chak/block in the case of Kanpur,

KMC GIS Based Website an interactive G18 based website ne information to citizens on Property Tax Details a. Property Tax liabilities b. Existing status of paid taxes c. Annual taxes due to be paid

ant maps, the site also provides for visualization of maps and placing

Online tax payment

Some special feature of the website to provide on-line infor

Automatic receipt generation
 Automatic data updation based on time specific scheduler

Software & Methodology Followed by KMC

KAC spikusion uses the demonstrate account SOACO ANY.

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A ANSSIII service covers spitual data between Geographic Information.

Systems (GIS) applications and a daubboe. The system architecture uses

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Time Frame: Initially it was one year but it was extended twice i.e. it took 3 years to

THE PROJECT ADMINISTRATORS ARE CONFIDENT HURDLE RACERS



Financial Benefits Ac

जीत ली जंग

otional Experiences of KMC GIS Project



KMC Core GIS Team











As usual change is always painful till it is accepted, else till it becomes a habit. A strong management support from KMC and ESRI has been proved to be the key to win this hurdle race.

Continuous stepwise consultation/participation with various stakeholders

Project Implementation was A hurdle race

- · Awareness of Taxpavers
- · Political/Administrative will
- Media Support

ESRI India

is very much needed for successful implementation of this Project.

USE OF KMC GIS -MAPS

Digital Map uses in -

- · By Kanpur Municipal Corporation (KMC) for planning and revenue generation.
- Delimitation of KMC Wards
- · Ward wise Backword Population Survey
- BPL (Below Poverty Line) Survey
- · For planning, design/implementation of water supply & sewerage projects under JNNURM.
- By Kanpur Electric supply Company (KESCO) for power distribution planning and revenue generation.

WE REMEMBER THEM & ARE THANK FULL TO

The TRAINING faculty of IIPA New Delhi and specially Mr G.Sriramam initiate the concept.

Ex Municipal commissioners:-

Mr.Arvind Singh for conceptualization, Mr Badal Chatterji for selecting a confident

partner, Mr.M.P. Mishra & Mr. P.K.Pandey Mr. Mukund Rao, President, NIIT-GIS for successful execution.

"The Indian Geospatial Award 2009", delivered by Sri T.Ramaswamy, Secretary Department of Science & Technology, Govt. of India, New Delhi.Kanpur Municipal Corporation has been awarded for Utilizing Geospatial Technologies as part of e-Governance initiatives. The Award recognizes the effort in Successful Implementation of Technology, resulting in better revenue. generation..





A paper based on this project has been submitted at "ICT for INDIA Award" organized by SKOCH Group which the project was awarded for "ICT for INDIA Award, 2010" for enhancing the property tax based tax revenue by three times by providing for transparency in governance, on-line tax payment. By Honorable Minister of Urban Development, Govt. of India Sri. Jaipal Reddy, dated 22th September, 2010 at New Delhi.





KANPUR MUNICIPAL CORPORATION

SKOCH "ICT FOR INDIA AWARDS 2010"



KANPUR MUNICIPAL CORPORATION

KNN has been selected under *The Top-100 ICT Projects in INDIA during 2011 &* Awarded certificate of Merit for Unique Property Numbering System dated 1st Sept., 2011





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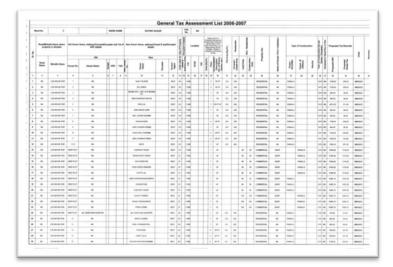
Scope of Work

KMC envisaged development of an interactive website &
☐ Creation of a GIS based spatial property database involving:
➤ Procurement and supply of Quick bird Image (0.6m resolution) for the entire area under the KMC jurisdiction.
➤ Georectification of the satellite image form the Ground control Points (GCPs) collected from Differential GPS survey.
➤ Updating of digital GIS maps of KMC with the help of geocorrected Quick bird data and preparation of data for assessment list.
□Conduct a property level survey for every property unit
□ Development of Informative and Interactive website for online property tax calculation and payment
☐Development of server based desktop application for property database repository management and tax assessment.
□Supply and Installation of software's, hardware and networking with server and additional peripherals
□Training of KMC Personnel
□Renumbering of properties with unique premises no. and fixing of house number plates.
The Scope of work mentioned above could be categorized into two broad components based on requirements of the KMC project as - Property Survey & GIS database Creation Application Development and Website Development

Major Components of the Project

Desk Top Application | Contral Repository | Contra

GIS Based Property Survey

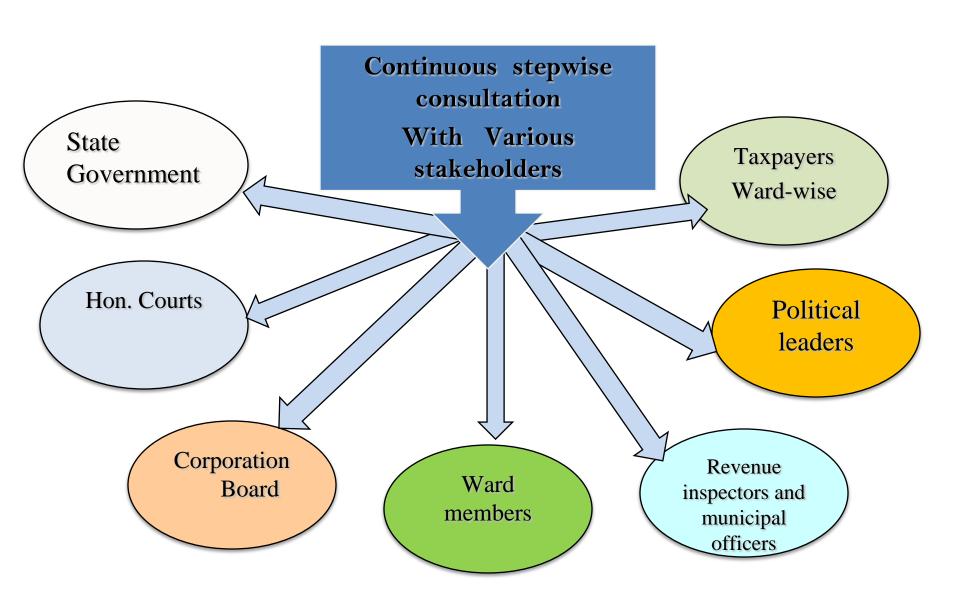




Web Site

GIS dataset

THE SUCCESS OF THE THIS PROJECT IS BECAUSE OF ...



GIS-BASED PROPERTY MAPPING

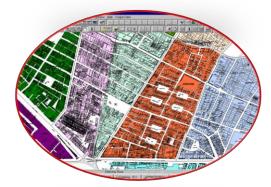
















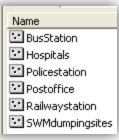
ABOUT GIS DATA SET

Details of Layers

Commercial

ivanie **™** Bank CommercialLawn Factory GuestHouse Hostel Hotel ™ KNN MarriageHall_BanquetHall NursingHomes_Clinic Office PetrolPump Restaurant Shop ShoppingComplex Tower

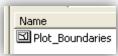
Public facility



Recreational



Property



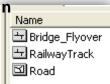
Name ☑ DegreeCollege

PrivateCoachings
School_Institute
TechnicalInstitute

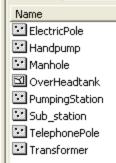
Educational

KMC Geodatabas e

Transportatio



Utility



-



Landuse

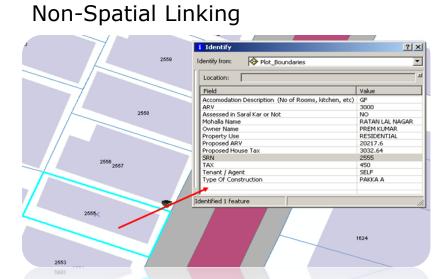
Name	
☑ Builtup	
⊞ Canal	
Cultivation	
☑ Footpath	
☑ Open	
→ Opendrains	
☑ River	
Tree	
WaterBodies	

BASE MAP

With Property Details



Building cover







Public Awareness Campaign to Educate the Tax payer



Public Awareness



कानपुर नगर निगम कर संग्रह केन्द्र

Email at : kanpur nagar.nigam@yahoo.co.in



कानपुर नगर निगम

सामान्य कर निर्धारण—2008 कानपुर नगर निगम सीमान्तर्गत स्थित समस्त

<u>आवासीय/अनावासीय भवन/भृखण्ड</u> के

स्वामियों / अध्यासियों के लिय

आवश्यक सूचना

अपनी सम्पत्ति का कर निर्धारण स्वयं करने का सुनहरा अवसर

आवासीय भवन /भवन के भाग हेतु सरल कर प्रपत्र (प्रपत्र 'ख') एवं अनावासीय भवन /भवन के भाग हेतु निर्घारित प्रपत्र (घारा 222 के अन्तर्गत) भरकर जमा करने व वर्तमान वर्ष के देय कर में 10 प्रतिशत छूट प्राप्त करने की

अन्तिम तिथि 31 जुलाई 2008

उदय नारायण तिवारी अपर नगर आयुक्त पी0 के0 पाण्डेय नगर आयुक्त

सामान्य कर (गृहकर) जमा करके कानपुर महानगर व अपने वार्ड के विकास हेतु अपने दायित्व का निर्वहन करें।



New House Numbering Building ID Generation









Transparency in Government Process:

- ☐ Almost 100% property tax coverage in the KMC area.
- Transparency & Speed in working.
- Online tax payment and status verification facility removes intermediary agents
- Better revenues for investments into civic facilities
- Property details (attribute data) and GIS database (spatial data) available at the

click of mouse.

Use of GIS map in the planning of the City.

Digital map already used in:

- Planning and revenue generation.
- ➤ Delimitation of KMC Wards
- ➤ Ward wise Backward Population Survey
- ➤ BPL (Below Poverty Line) Survey
- For planning, design/implementation of water supply & sewerage projects under JNNURM / NGBRA
- ➤ Development of Comprehensive Mobility Plan (CMP) of the city by UMTC
- Map is being used by students of IIT and other institutions for R&D and project work

Sustainability

Data Updation:

- ☐ The data is being captured from the building plans received from Kanpur Development Authority for NOC.
- ☐ Through a defined format; ward wise Identified new properties are being regularly linked with GIS database.

Capacity Building & Organizational Sustainability

Financial model:

It is a revenue generating project so it is sustaining by the revenue generated on its own from property tax and other sources tapped through the map.

Technology transfer:

The project covered the technology support for one year and transfer of technology by three level training of staff.

Accountability:

Project Management team is accountable for regular operation and management of the system.

Project Management team (full time department officials/consultants)

Full time:

- ☐ Team Leader/Nodal Officer Additional Municipal Commissioner,
- ☐ I.T.Officer:
- □GIS Coordinator:
- **□**20Computer Operators.
- □Consultant support for trouble shooting.

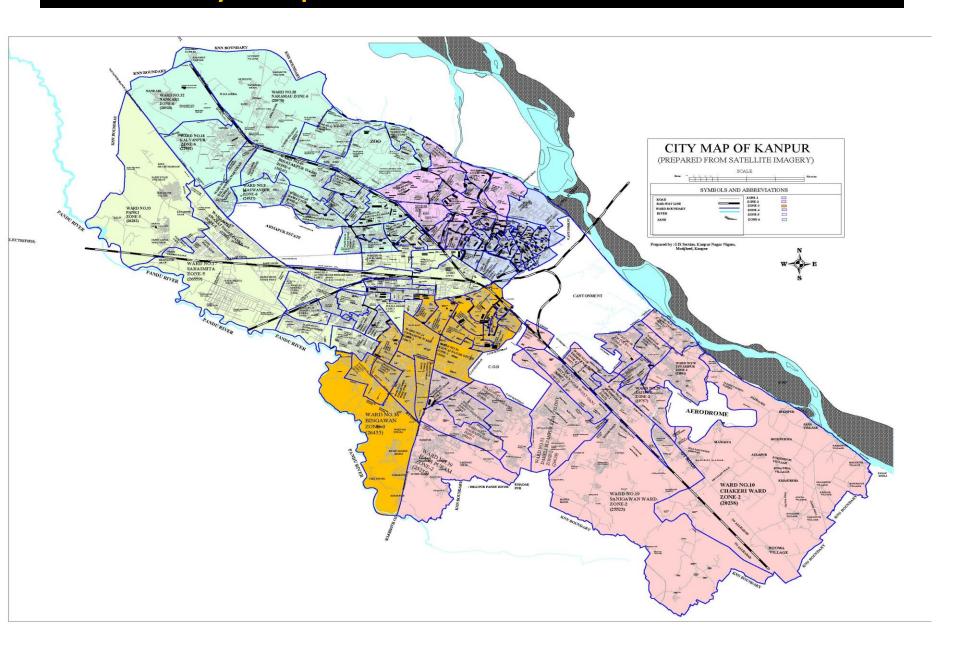
Innovation:

Innovation:	
	□Property tax calculation system in Hindi.
	☐ Tax calculation step by step.
	□View your tax calculation.
	☐Ward wise monthly rental rates per sq. feet rates used for
	calculation of property tax.
	□Ward wise/ area wise circle rates of property used for the
	calculation of property tax for non-residential properties is
	available on-line.
	□GIS based spatial searching and identification of properties
	☐Ward wise/Property wise maps with civic infrastructure details
	like roads, lanes, by lanes, parks, electric poles, telephone
	poles, railway lines, hotels, hospitals, police
	stations, schools, cinema hall etc.
	□Property Tax information system.

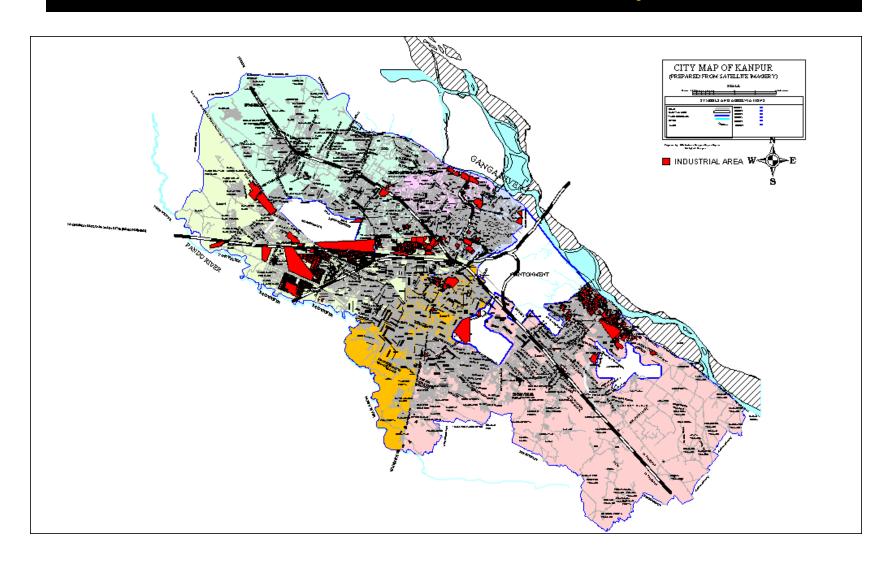
Appropriate Delegation

- ☐ The whole system is based on login/password.
- ☐ Provision for power delegation at each level e.g. add, edit, delete etc. is there.
- □ Provision for maintaining log book for every transaction in the property tax application is there.

City Map with Road & Rail Network



Industrial Area Of Kanpur



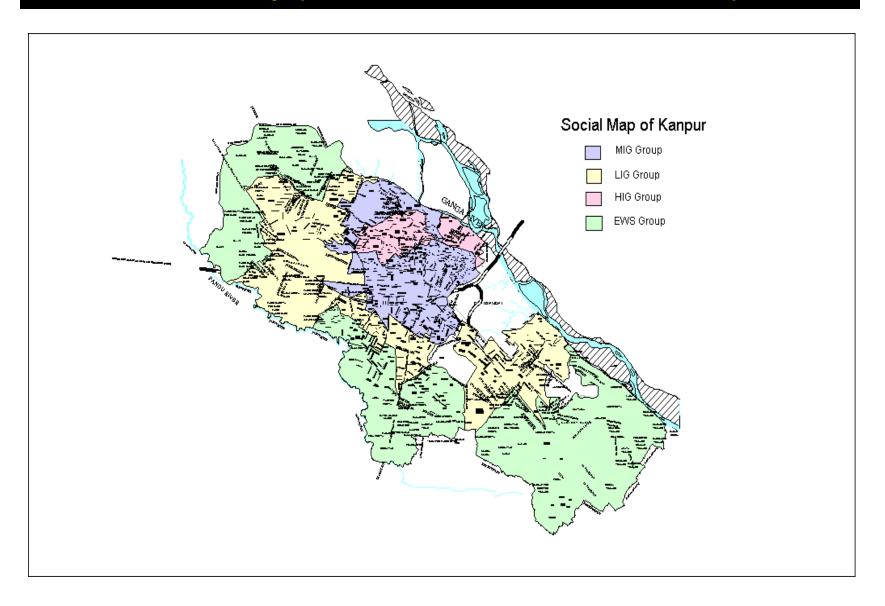
GIS mapping for Disaster Management

- Four maps have been prepared in following each area namely
- OSocial map (to understand the social status),
- OHazard identification map (to identify the possible hazards),
- OVulnerability map (to identify the vulnerable sections of the community)

and

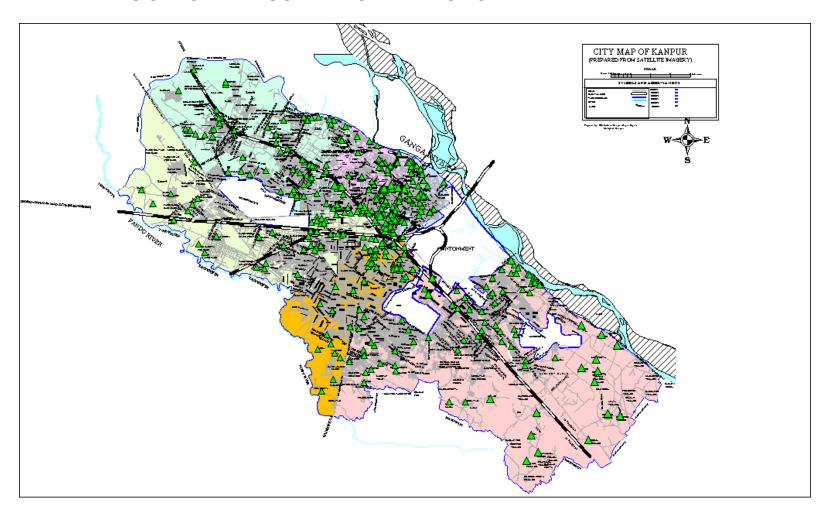
OResource Inventory map (to inventories the resources available within the ward or around

Social map (to understand the social status)

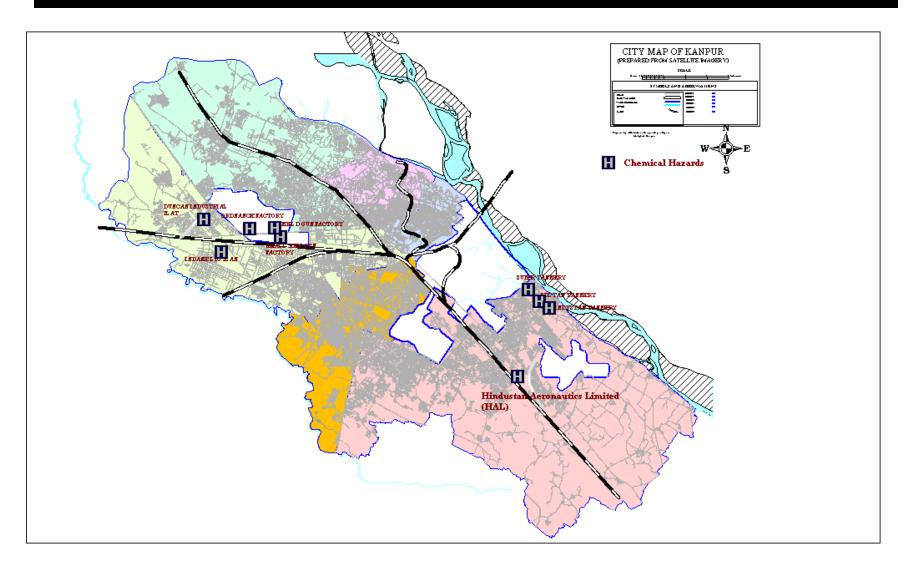


Vulnerability map (to identify the vulnerable sections of the community)

MAPPING OF VURBAN POOR AREAS IN KANPUR CITY



Hazard identification map (to identify the possible hazards)



Major Departments (Partner Departments)

