

Digital Inclusion award 2012

# 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

# AWARDS

### 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

maps with the help of Quick Bird imagery, updation of different 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 two requirements of the ·Property Survey & Application Devel

Property Tax Application and Web site Develop

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 GIS based website interinformation to citizens on Property Tax Details a. Property Tax liabilities b. Existing status of paid taxes c. Annual taxes due to be paid, On-line Property tax calculation bu-line tax paxyment

provided. In case an individual or an organization wishes to buy levant maps, the site also provides for visualization of maps and placing on-line purchase request by the individual or organizatio

Online tax payment

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

Automatic receipt generation
 Automatic data updation based on time specific scheduler

Software & Methodology Followed by KMC

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EAC option of the Authoritism of Instituted Int. ACM.

An ACMED service occurs spatial data between Goographic Information
Systems (ISS) applications and a database. The system architecture uses
deathner management sowers (ISSIMS)—245, Service with AcMED. It is
connect to and access spatial data from an AraSSIC service with extensional designation in the application in the obligation of the observation of the access of the Access option of the Observation of the Obs

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

KMC Core GIS Team

### THE PROJECT ADMINISTRATORS ARE CONFIDENT HURDLE RACERS DEGREE OF THE SUCCESS OF THE PROJECT IS .

### Financial Benefits Ac

ESRI India

# जीत ली जंग









· By Kanpur Municipal Corporation (KMC) for

- Delimitation of KMC Wards
- BPL (Below Poverty Line) Survey
- · By Kanpur Electric supply Company (KESCO) for power

### 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.

### Project Implementation was A hurdle race

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.

otional Experiences of KMC GIS Project

- Continuous stepwise consultation/participation with various stakeholders · Awareness of Taxpavers
- · Political/Administrative will
- Media Support
- . is very much needed for successful implementation of this Project.

### USE OF KMC GIS -MAPS

### Digital Map uses in -

- planning and revenue generation.
- · Ward wise Backword Population Survey
- · For planning, design/implementation of water supply & sewerage projects under JNNURM.
- distribution planning and revenue generation.

# AWARDS

"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..





## AWARDS

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 1<sup>st</sup> Sept., 2011





### 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.



### 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.



### 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.

