

Kanpur Nagar Nigam

Motijheel, Kanpur

Phone: 0512 2551416

Fax: 0512 2531662

Cost of the tender:	Rs. 1000/-
Last date & time for the sale of tender document:	10/03/2006, 12 noon
Last date & time for submission of the tender:	10/03/2006, 03:00 pm
Date of opening the tender:	10/03/2006, 04:00 pm

Issued to,

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Sub : Bid for the Updation of geographical Information system (GIS) , development of GIS based web site for Kanpur Nagar Nigam (KNN) and Supply & Fixing of House Number Plates.

TERMS OF REFERENCE

Kanpur Nagar Nigam (KNN) has been sanctioned funds by Govt. of Uttar Pradesh under Urban Reform Incentive Funds (URIF) scheme for updation of Geographical Information System (GIS). Scaled tenders are invited from technically competent and financially sound Indian/Multinational Companies/firms with proven repute in the field of municipal GIS and GIS based website developers for the development / updation of digital GIS maps (260 sq.km) of KNN with the help of IKONOS data and collection of data as required for the preparation of assessment list in the prescribed format [under section-207 of Nagar Nigam Adhiniyam-1959 and The Utter Pradesh Nagar Nigam (Sampattikar) Niyamawali-2000 [as ammended from time to time] alongwith renumbering of the properties and fixing the number plate on the property at the cost of owner/occupier. Being an integrated activity the work will be awarded on the turn key basis.

Agency

Sanjay Ghosh  
GIS Coordinator

Additional Municipal Commissioner  
Kanpur Nagar Nigam

KNN has 1:1000 scale digital map (238sq.km) with properties and their revenue data matched with it. The GIS infrastructure has computers, plotters and software's like ArcView and ArcSDE.

**1. Location and Scope of work :**

The location of the work will be at Kanpur for implementation and at the contractor's site for development, On site warranty for one year will be at Kanpur.

The scope of work in brief consists of the following:

- ◆ Supply and Installation of IKONOS image of Nagar Nigam area of Kanpur with one meter resolution.
- ◆ Updation of digital GIS maps of KNN with help of IKONOS data and preparation of data for assessment list in English and Hindi as mentioned above.
- ◆ Development of Informative & Interactive KNN website.
- ◆ Geo-referencing of the Map data using DGPS Points. Geo-referencing of final GIS data using DGPS, minimum of 200 points to be taken for the entire area.
- ◆ Supply and Installation of hardware and networking with server (Max. 10 nodes) and additional peripherals as mentioned in the list.
- ◆ Updation of KNN licenses of Software products
- ◆ Supply of additional Software
- ◆ Training of Personnel
- ◆ Renumbering of properties with unique premises no. as prescribed in modern Municipal law and supply and fixing of house number plates at the cost of owner/occupier.

The details of the job is as follows:-

**Schedule of Work:**

S.No.	Name of the Work	Quantity
1.	<p><u>Updation of digital GIS maps and preparation of data for assessment/physical details using contract survey and latest IKONOS data for Municipal Area of Kanpur:-</u></p> <p>Supply and Installation of IKONOS image of municipal area (260 sq. km) with one meter resolution.</p> <p>Updation of digital GIS maps (260 Sq K.M) of KNN with help of IKONOS data and preparation of data for assessment list including covered area with OCR method in server based application (prefer in SQL).</p> <p>contract survey in association with authorized</p>	<p>KNN boundary (Municipal Area)</p>

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GIS-Coordinator

Additional Municipal Commissioner  
Kanpur Nagar Nigam

	<p>Municipal staff for the creation of database in English and Hindi, of covered /carpet area and renumbering (unique premises number) of the properties situated in the KNN boundary along with other physical inputs required for the planning of the city like Road network, Parks, Railway Tracks, River, Electric pole, Telephone pole, Transformer, Sub Station, Drainage system, Sewer line, manholes, hand pumps, Hospitals, Nursing Homes, Post office, Police Station, SWM dumping sites and Locations, Tree, Temple, Mosque, Pumping Station, Tube well, Cultivation, Bridge, Graveyard, High Tension Pole, Over Head Tanks, Canal, Open Drains, water Bodies etc. The associated Municipal staff will authenticate the final data along with the bidder.</p>	
2.	<p><b><u>Development of GIS based website for KNN including on-line payments etc:-</u></b>  Development of Informative &amp; Interactive KNN website.</p> <ul style="list-style-type: none"> <li>• Brief details of KNN and the City.</li> <li>• On line property tax payment facility.</li> <li>• Know your tax information.</li> <li>• Complaint/suggestion box.</li> <li>• Death and Birth registration.</li> <li>• Other municipal Information/forms when required.</li> <li>• GIS maps available on payment.</li> <li>• Hosting of GIS maps on the site for access by any interested party through ArcIMS software. (ArcIMS to be supplied)</li> </ul>	
3.	<p><b><u>Geo-referencing of final GIS database:-</u></b>  Geo-referencing of the Map data using DGPS Points.  Geo-referencing of final GIS data using DGPS, minimum of 200 points to be taken for the entire area.</p>	KNN boundary
4.	<p><b><u>Supply/updation Installation of hardware and GIS Software:</u></b></p> <p><b>1. Hardware:</b> Supply and Installation of hardware and networking of server with maximum 10 nodes. some additional peripherals are required like,</p> <p><b>Server:</b>  Server, E1(Intel Dual Xeon@3.4 GHz, 4x1GB DDR2 RAM, 17" TFT colour monitor, Dual channel RAID 5 controller with battery backup, 5x144GB Ultra 320 SCSI HS HDD, Dual port Gigabit Ethernet, 48x or higher</p>	01

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**Someshbhan**  
GIS-coordinator

**Additional Municipal Commissioner**  
**Kanpur Nagar Nigam**

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CDRW, OEM optical mouse, Hot swap redundant power suppl, Internal 40/80 GB DLT VS80 SCSI Tape drive) 3 year warranty (Make: HP).

**Desktop (Node):**

P-IV 3.4 GHz and above, 800 MHz FSB, 512 DDRAM, 80 GB SATA Hard disk, 17" LCD TFT Colour Monitor, Combo Drive, Internal Zip Drive, Mother Board Intel, Scroll Mouse, Anti Virus Software, Windows XP, Complete Multimedia with internal Modem, 1KVA UPS, 3 Hp 5748 Deskjet Printers and 1 Hp A3 Size Printer. (Make: HP)

04

**A3&A0 Size Scanner:**

A0&A3 size Scanner (HP) with complete setup.

01 each

**Plotter:**

42" Plotter (HP) with stand.

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**Laptop:**

P-IV 3.4 GHz, 512 MB DDR SDRAM, 80GB HDD, CDRW, 15", (Make: HP)

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**Digital LCD Projector (Sony):**

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**Digital Cam Coder:**

4x optical zoom, 3.3 Megapixel CCD resolution, min. 5m wide flash range, Video and Audio capture with playback on camera, 16 MB internal memory, SD/MMC/equivalent card slot, USB compatible interface, self timer, rechargeable LI-ION battery, Real image optical view finder, NTSC, PAL, video out, All necessary accessories and software.) **Make-Sony.**

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**USB Pen Drives:**

1GB USB 2.0 Pen drive with password protection. (Make-HP).

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**2. Supply of Software:**

- ArcInfo latest version
- AutoCAD Map 2005
- Microsoft XP Standard Edition
- Office XP
- MapInfo 7.5 or Latest version

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5.

**Training and Technology Transfer and maintenance of GIS Application:-**

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Pervez Khan  
GIS-Coordinator

Additional Municipal Commissioner  
Kampur Nagar Nigam

	<p style="text-align: right;">(8)</p> <p><b>Training and Technology Transfer</b></p> <ul style="list-style-type: none"> <li>• GIS for revenue generation- 5 Days, 151hrs to 25 persons.</li> <li>• Basic and Advance level GIS training- 15 Days to 15 persons</li> <li>• GIS Software Application - 15 Days to 15 persons.</li> </ul> <p>To use GIS as a tool for the generation of revenue &amp; planning.</p> <p><b>Maintenance of GIS Software:</b> Updation of KNN license of ESRI Arcview 2.3, ArcSDE 8.0, SQL and maintenance/updation of the existing application software Municipal GIS System.</p>	
6.	<p><b><u>Supply and Fixing of House Number plates:-</u></b> Supply and Fixing of Aluminium superfine computer printed House Number plates in 3.5"x2.5" size according to the new unique premises number generated with the help of GIS maps at the cost of owner/occupier (Photocopy of the model is attached). The successful bidder will be authorized to collect the quoted cost of the number plate from owner/occupier.</p>	All the houses within the KNN boundary (Municipal Area)

## 2. Submittals:

On completion of work, the successful bidder/ contractor shall submit hard copies and soft copies of the following

- (A)
- I. DGPS co ordinates for all locations taken by a DGPS for geo-referencing the map data.
  - II. IKONOS data that has been used for the development of the constructed area. The IKONOS shall be given to KNN after geo-referencing.
  - III. The Application (Softwares) for property tax shall be loaded on the KNN system after upgradation and should be functioning properly. One year warranty shall be provided in the form of one technical expert to be located at KNN premises for any trouble shooting during this period.
  - IV. Training manuals shall be provided for all the participants
  - V. All other hardware and software as per the supply details.

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GIS Coordinator

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Additional Municipal Commissioner  
Kanpur Nagar Nigam 358

(B). **Warranty:**

The application and data shall be warranted for 1 year after acceptance of KNN. One expert should be present at KNN premises for trouble shooting for 1 year.

**3. Completion period :**

The work shall be completed within 12 months from the date of mobilization which can be extended by Municipal Commissioner if he is satisfied with the progress of the work. The mobilization Time shall be 15 days from the issue date of Letter of Award.

**4. Work Schedule:**

All the works mentioned in the schedule of work are an integrated activity. A clear and definitive committed schedule of all expected activities required to be performed for the services defined within the scope must be provided in the proposal. The schedule shall form a basic component of the award and must be firm.

**5. Agency To Inform Himself Fully -**

The Agency shall be deemed to have fully acquainted himself with the work & site conditions and carefully examined the special conditions, the specifications, and shall be deemed to have fully informed himself regarding the local conditions and various prevailing laws at beings.

The Agency shall also be deemed to have fully acquainted with various items involved in the work and deemed to have fully acquainted himself with the fact that the work is to be carried out at various locations in Kanpur Municipal Corporation Limits. The Agency should therefore plan his schedule of work properly so as to complete the work within stipulated time limit. KANPUR NAGAR NIGAM will not be liable for any loss or damage sustained by the Agency due to sudden variations strategies of Government and taxation pattern.

**6. Rejection Of Offer:**

The Offer, which does not fulfill any of the conditions, specifications or are incomplete in any respect are likely to be rejected without assigning any reason therefor.

**7. Pre-Qualification Conditions: -**

- The firm should be financially and Technically sound. (attach past three years audited balance sheet)

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Sanjay Chandra  
GIS-Coordinator

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Additional Municipal Commissioner  
Kanpur Nagar Nigam

- The firm shall have at least five years of existence, experience in the field of GIS.
- The firm should have completed GIS work in the field of GIS, software application development, GIS ground survey, renumbering and fixing of number plates (according to the unique premises numbering system with the help of GIS maps) and supply of hardware and GIS software of Local Self Government/governmental bodies/public sector under taking for projects costing Rs.10 Crores in last 3 years.
- The Bidder should have done a **GIS data creation project using IKONOS data and Survey for at least two cities with a total area of not less than 200 Sq. Km area each.** Bidder will have to submit the Certificate of above mentioned work done satisfactorily from the competent authority of the organization in which it was worked.
- The Bidder shall have minimum of 30 GIS professionals working with them and should supply the CVs of the people to be deployed for this project.
- The Bidder shall have the valid legal licenses of the software for producing the data in Geodatabase structure.

#### 8. Earnest Money Deposit:

The firm shall submit earnest money deposit (EMD) of Rs. 3,00,000/- (Three Lakhs Only) as Demand Draft/Fixed Deposit Receipt/Bank Guarantee in favour of Account Officer, Kanpur Nagar Nigam.

#### 9. Security Deposit: -

Total Security Deposit shall be 5% of the amount of the work. It should be paid prior to the agreement. It should be paid in either of the following form in favour of Account Officer, Kanpur Nagar Nigam -

- Demand Draft in favour of the Account Officer, Kanpur Nagar Nigam.
- Bank Guarantee From any Nationalized Bank in prescribed form valid for the period of 12 months and renewable from time to time till 12 months beyond the completion of the work to the satisfaction of the KANPUR NAGAR NIGAM (KNN).

The security deposit shall be refunded only after the warranty period is over after the completion of the work (to the satisfaction of the Municipal Commissioner of the Kanpur Nagar Nigam).

#### 10. Manner Of Submission Of Offer And Its Accompaniments: -

Offer to be submitted in two separate sealed envelopes The Agency shall submit the offer and documents in two sealed envelopes as below: -

##### a. Envelope No. 1

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James Khan  
GIS-coordinator

Additional Municipal Commissioner  
Kanpur Nagar Nigam

The First envelope clearly marked, as "ENVELOPE NO.1" shall contain the following documents.

- Earnest money must be in the form of demand draft in favour of Accounts Officer, Kanpur Nagar Nigam.
- Details of works of similar type and magnitude carried out by the firm.
- Details of Technical personnel on the roll of the Agency.
- Details of other works tendered for and in hand with the value of work unfinished on the last date of submission of tender.
- Experience Certificate as mentioned in Pre-qualification Condition at above.
- Terms of reference duly signed on each page in token of acceptance of all the terms and conditions.
- Methodology for the project.
- List of tools, instruments etc., proposed to be deployed.

**b. Envelope No.2: -**

The second envelope clearly marked, as "ENVELOPE NO.2" shall contain only price bid for all the activities mentioned in schedule of work from Serial No.1 to 5 and the cost of the house number plate seperatly on the companies letter head as per the Annexure-I.

The offer should be based on the scope of work given above, and inclusive of all taxes, levies, duties and all other charges including traveling, lodging and boarding or any other expenses of the agency and other employees of the Agency. Kanpur Nagar Nigam will not bear any expenses other than the quoted offer.

The offer has to be submitted only in Envelope No.2. The agency should not quote this offer any where directly or indirectly in Envelope No.1. Otherwise the submission will be summarily rejected without assigning any reason thereof.

**c. Submission of Offer: -**

The two sealed envelope No.1 and 2 shall be again put together in a common cover and sealed. This sealed cover shall be marked on the left hand top corner "Offer for the work of GIS". The full name and address of the Agency and the name of the authorized agent delivering the sealed cover containing the Offer shall be written on the bottom left hand corner. The date and time for receipt of Envelope containing Offer shall strictly apply in all cases. No delay on account of any cause will be entertained for the late receipt of the offer. Offer submitted or received after the date and time is over, will either not be accepted or if inadvertently accepted, will not be opened and shall be returned to the Agency unopened.

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GIS Coordinator

Additional Municipal Commissioner  
Kanpur Nagar Nigam



**d. Opening of Offer: -**

On the date specified in this notice following procedure will be adopted for opening of the offer.

**Envelope No.1:** Envelope No.1 of the offer will be opened first to verify its contents in this envelope as per requirement. If the various documents contained in this envelope do not meet the requirements of the corporation a note will be recorded accordingly by the offer opening authority and the said Agency's Envelope No.2 will not be considered for further action but the same will be recorded.

**Envelope No.2:** - This envelope shall be opened if possible immediately after opening of envelope No.1 only if contents of Envelope No.1 are found to be acceptable to the authority. The Offer shall then be read out.

**11. Settlement Of Disputes:**

1. If any dispute or claim of any kind arises between the KNN and the Agency in connection with, construction, interpretation or application of any terms and conditions or any matters or things in any way connected with or in connection with or arising out of this contract, or the rights, duties or liabilities of any party under this contract whether before or after the termination of this agreement, then the parties shall meet together promptly, at the request of other party, in an effort to resolve such dispute, difference or claim by discussion between them.

2. If any dispute arise out of the contract of the said project that shall be referred to the Court of Law at Kanpur only. It is made specific here that in no case the matter shall be referred to any Arbitration or conciliation or any other alternative dispute redress mechanism. The dispute (if any), shall be subjected to Kanpur Jurisdiction only.

**12.Risk and Cost:**

KNN reserve the right to induct additional resources if so required and necessary in the event the progress is not maintained by the contractor as desired by KNN and as committed in the initial work schedule. The cost of the same shall be recovered from the contractor.

**13.Liquidity Damages for delay:**

If the contractor fails to mobilize and complete the work with in the time specified in the letter of award or any extension granted thereof, the contractor shall pay to the KNN as liquidated Damages and not as penalty, a sum equivalent to 0.2% (zero point two percent) of the contract price for each calendar day of delay or part thereof for the services that are delayed. However, the amount of Liquidated Damages under the contract shall be limited to a maximum of 5% of the value of those services.

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Kanpur Nagar Nigam

#### 14. Contract performance Guarantee (CPG):

Bidder, to whom the work is awarded, shall be required to furnish a Contract Performance Guarantee (CPG) amount equal to 5% (Five percent) of the Contract price in the format as required by KNN within 15 Days from the date of Notification of the Award. The guarantee is towards faithful performance of the Contract in accordance with the contract Agreement. The guarantee shall be valid up to 90 days after the end of completion period. CPG shall be returned to the Contractor on successful completion of the works under the Contract at the end of the validity period mentioned above. On submission of CPG and its acceptance by the KNN, the Bid guarantee/EMD furnished at the time of bid opening shall be returned to the Contractor.

#### 15. Deviations:

Bids that are deviated from above provisions relating to the Bid Price, Contract Performance Guarantee, Liquidated damages, Terms of Payment, EMD Amount and completion period will not be considered and are liable to be rejected.

#### 16. Confidentiality:

Bidder/Contractor shall keep confidential and shall not, without the consent of KNN which shall not be unreasonably withheld, divulge or part off to any third party any documents, data or other information on connection with this assignment except, where such information are of public domain or required under the statute or law.

The details like the map data and the IKONOS Imagery are property of KNN and in no way be allowed to be used for any other purpose than this project completion. If the contractor is found to violate this, the project may be terminated with immediate effect.

#### 17. Bid Enclosures:

The following details must be enclosed with the Bid as detailed under the clause 10 :

- This tender document duly signed and stamped on all pages as a token of having read and accepted the terms and conditions of the tender
- Methodology for the project.
- List of tools, instruments etc., proposed to be deployed.
- Man Power proposed to be deployed for the work. (CVs for minimum of 3 GIS experts supported with statements of qualification, shall be furnished. The same personnel should be deployed for the work if awarded).
- Price bid on company's letter head as per the annexure 1 given, with the prices duly filled in figures and well as words.

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Surveyor  
GIS-Coordinator

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Additional Municipal Commissioner  
Kanpur Nagar Nigam

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Right to reject any or all offers without assigning any reason thereof, is reserved with the Municipal Commissioner, Kanpur Nagar Nigam, Kanpur.

This TOR is a part of Tender Document and is to be signed below in token of acceptance of the entire clause.

I/We have studied the Term of Reference (TOR) as above and put my/our signature in token of acceptance on each page of it.

Place:

Date: -

Signature of Authorized

Signatory

Address:

Tel./Fax:

E-mail:

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11/12/2011

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GIS-coordinator

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Additional Municipal Commissioner  
Kanpur Nagar Nigam

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**PROFORMA-FOR SUBMISSION OF OFFER**

(TO be typed on the letterhead of the Agency)

Name of work Bid for the work of Updation of geographical Information system (GIS) and development of GIS based web site for Kanpur Nagar Nigam (KNN) and Supply & Fixing of House Number Plates.

I/We states that-

- 1) THE OFFER IS UNCONDITIONAL
- 2) Rates quoted hold good for work under all conditions, site, and moisture, all weather etc.
- 3) The rates quoted are inclusive of all duties, and taxes viz. C.S.T., M.S.F.T.T., Excise, Turnover, work contract tax, Service Tax, VAT, Octroi etc. Variation in taxes during the course of execution will not be paid by Kanpur Nagar Nigam, Kanpur.

I/We have carefully studied the various Components herein above with the scope of work and detailed specifications and all other terms and conditions of this Terms of Reference (TOR). On the basis of that I/We hereby undertake to execute the said work as per the rates quoted herein below.

I/We have gone through you Terms of Reference (TOR) for the above said work and I/We have understood all the terms and conditions pertaining to the work. My/Our Total Financial Offer for executing the said work from Sr. No. 1 to 5 of the tender is Rs..... (In words Rs.....) and the cost of number plate Sr. No. 6 (to be realised by the bidder from the property owner/occupier) will be Rs----- (in words Rs-----).

Place:

Date: -

Signature of Authorized Signatory

Address:

Tel./Fax:

E-mail:


Agency

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Additional Municipal Commissioner  
Kanpur Nagar Nigam

*(P) 12/06/2010*  
*for neyblan*  
*GIS - Coordinator*

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**कानपुर नगर निगम**

<b>वार्ड सं.-51</b>	<b>चक सं.-101</b>
<b>ब्लॉक A</b>	<b>स्ट्रीट S-1</b>
<b>भवन सं.-0001</b>	<b>हुकूल भवन</b>

*Jayveer bhanu*  
 GIS-Coordinator

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कानपुर नगर निगम  
 GIS-Coordinator

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 14/10/06

GIS-Coordinator