

VIJAYAWADA MUNICIPAL CORPORATION

**

RFP DOCUMENT

For the work of

Comprehensive Survey and G.I.S. mapping of all Civic Services offered to households and also developing and implementing an appropriate Door numbering system, by rationalization of existing door numbering system for all houses in the City of Vijayawada.



Issued to _____

TO BE SUBMITTED IN COVER-A
VIJAYAWADA MUNICIPAL CORPORATION

NOTICE INVITING TENDER

**

The Vijayawada Municipal Corporation in pursuance of G.O.Ms.No.102, M.A., dt. 16.3.04 and C.R.No. 296 dt. 7.10.06, invited expression of interest from reputed companies with relevant experience for G.I.S. mapping of Civic Services offered to households and developing and implementing on appropriate door numbering system including rationalization.

In response to the E.O.I. several firms have responded and presented their proposals and credentials on 9.3.2007 to the committee constituted for short listing the firms and the committee relying on certain accepted criteria short listed 7 firms for supply of tender documents and accordingly tender documents are supplied to the short listed firms only.

The Tenderer must furnish documentary evidence in proof of fulfillment of the qualification criteria stipulated in the Tender Document. All tender offers must be submitted on or before 19-09-2007 by 15.00 hours accompanied by Earnest Money Deposit as specified in the tender document at the office of Vijayawada Municipal Corporation, Vijayawada. Tender offers will be opened in the presence of the tenderers or their authorized representatives in the office of the Commissioner, Vijayawada Municipal Corporation, Vijayawada.

1. SCHEDULE:-

Quotations:-

The firms to whom tender document is supplied shall quote for the above work. Particulars of area to be covered and other relevant details are furnished there under for the benefit of the firms.

Sl.No.	Name of the City	Approx.No.of properties & (Area in Sq.K.M.)	Earnest Money Deposit in Rs.	Contract period in months	Cost of Tender Schedules in Rs.
1.	Vijayawada Municipal Corporation	2 Lakhs & 58 Sq.KM	5 Lakhs	12	*2500/-

1. The Number of properties mentioned in the above table is as per the Property tax database and there may be more less properties.
2. It is likely that Vijayawada Municipal Corporation may extend the work to Surrounding developed areas on mutually acceptable terms and conditions.
3. The tenderer shall quote their rates per property to cover all the job work mentioned in the next chapters.
4. All the amounts pertaining or purchase of tender document and the earnest money deposit shall be made in the form of demand draft taken in favour of Commissioner, Vijayawada Municipal Corporation.
5. Right to give preference or accept or reject, any or all the Tender/s without assigning any reason there for, is reserved by the Commissioner, Municipal Corporation, Vijayawada.

INDEX:

Envelope-1: Technical Bid:

Sl. No	Description	Page No
I	Introduction and Back ground	4
II	Submission of tender	26
III	Tender opening and Evaluation	28
IV	Award Criteria	31
V	Other terms & Conditions of Contract	32
VI	Proforma : a. Sample form of Agreement b. Bank Guarantee for Performance c. Financial Bid – Envelope-2	40 43 46
3	Annexure-I	47

I. INTRODUCTION AND BACKGROUND

1. Introduction :-

Vijayawada Municipal Corporation invited expression of interest from reputed and experienced firms in G.I.S. for mapping of Civil Services and rationalization of existing door numbering system in V.M.C. limits. The firms responded for the E.O.I. have been afforded an opportunity to present their proposals on 9.3.2007 and the committee of members short listed the firm and tender document is hereby made available to the short listed firms as per the terms and conditions laid down in the tender document.

1.1 Vijayawada Municipal Corporation:

The Municipality of Vijayawada was constituted on 1st APR, 1888 with an area of 30 Sq.K.Ms., and was upgraded as a selection grade in the year 1960. The Municipality was upgraded to a Corporation in 1981. With the merger of Gunadala, Patamata and Bhavanipuram village panchayats and two villages payakapuram and Kundavari Kandrika in the Corporation in 1985, the total area of the Corporation is 58 Sq.K.Ms., The city is divided into 59 political wards.

2. SCOPE OF WORK:

Developing GIS based Management Information system for Land Information, Electric, Transportation Network for VMC with all the related dept requirements and Preparation of Land Base map in the VMC area & Mapping of all Underground & Above the ground Utilities, and creation of numbering system for approx 58 sq km. as given below:

2.1 Mapping Components:

2.1.1. Land Information: Land base map has to be prepared on 1:2500 scales for the entire VMC area by using latest high-resolution satellite data. The following mentioned features shall be captured from the satellite data. Feature details required in each category is given in table.

- A.Structures , Road network
- B.Rail network , Water bodies
- C.Worship places , Public Utility
- D.Vegetation , Land use
- E.Political boundaries
- F.Contours 5m interval
- G.Embankments , VMC properties

S.N	Category	Features
1	Structure Type	Permanent RCC Semi-permanent Huts Vacant Land
1A	Structure use	Individual Residential Commercial Apartment Educations/Institutional
2	Road network	W.B.M.Roads B.T.Road C.C.Road Earthen beds Gravel roads Culverts Subways Bus stations Bus Shelters Median Divider Footpath Flyover Bridge
3	Rail network	Rly Track Level Crossing ROB's RUB's Signal Cabin's Rly property boundaries Railway station
4	Water bodies	River Streams Canal Tank Pond Reservoir Swimming pool GLSR's ELSR's
5	Worship places	Mosque Idgah Temple Church Gurudwara and any other place.
6	Public utility	Post office Telegraph office Government offices of State Government and Central

		Government Petrol pump Dispensary Hospital Police station Fire station Rest house Restaurants Community hall School College University
7	Vegetation	Avenue Plantation Fruit Gardens Flower Gardens Hill area plantation Other
	Administrative boundaries	Wards, Circles, Zones
8	Land use	Open forest/Reserve forest Hill , Park Play ground , Plantation Marshy/Swamp Scrub land , Rocky area Mine/Quarry, Cultivated land Open land
9	Political boundaries	VMC boundary , Village boundary Ward boundary, Assembly Constituencies Revenue Ward
9a	Administrative boundaries	Revenue Ward / Circle / Sanitation Ward
10	Contours	5 m contours
11	Embankments	Embankment above 3 m Embankment below 3 m
12	Entertainments	Theatres, Auditorium, Parks, Playgrounds, Stadiums, Swimming Pools

2.2 Mapping of electric installations / System : Electric system / installations belongs to VMC has to be mapped on 1:1000 scale and transfer to the land base map. To know data structure, a detailed study has to be conducted on VMC electric installations systems before starting the survey.

2.3. Road network mapping: Detailed road network maps has to be prepared for the entire VMC area with appropriate classification. Total station instrument shall be used for road network mapping along with the satellite data. This road network map should be useful for expansion of the roads in the and to find out encroachment.

2.4. Under Ground Drainage System : In Vijayawada Under Ground Drainage was constructed in 1967-68 and 25% of the area was covered under this project. Corporation has undertaken the expansion of the Under Ground Drainage for the whole City.

3. Data Integration

Other Ancillary/Existing data should also be integrated in the updated GIS Maps from

1. Existing Municipal Corp. (VMC) Administrative boundaries map
2. Land sub-division maps (Existing Cadastral map)
3. Utility network map
 - a. Water Supply,
 - b. Drainage
 - c. Sewerage
 - d. Electric
 - e. Roads
 - F. All public utilities
4. VMC will provide GIS maps with all data base on water and sewage network. This work has to be integrated into the integrated GIS maps being prepared in this contract.

4. PROPERTY SURVEY :

A detailed Household Survey of all Dwelling and other property including vacant sites (All residential, Commercial, Industrial, Educational, Religious Buildings etc) for Attribute data compilation for Tax, Water, Sewer, Public Amenities to create the GIS data Model & GIS Application Development. Each property shall be measured accurately and for wrong information and wrong measurements the agency shall be responsible and penalties will be imposed. Area calculation shall be performed duly taking field data also into consideration.

5. Door numbering system:

Consultant shall conduct detailed study on the existing door numbering system in VMC area provision of door numbers for vacant sites and a new simplified & rationale numbering system should be developed in consultation with VMC. Shall fix the rust free steel number plates to the buildings with the given specifications. 9X4 inch plate with letters in white and blue background colour. The vacant sites shall also be given continuous number.

6. APPLICATION DEVELOPMENT

As per the specifications designed in the Phase-1 both the spatial and non-spatial data shall be uploaded to the Oracle spatial system existing at the CORPORATION. The attribute data collected shall be converted into tables and then to the database server. A unique code shall be maintained to link to the spatial data.

The client application shall be developed with the functionality of the following Able to connect to the Oracle Server Can view the maps and data

1. Can edit or update the spatial and attribute data
2. Able to Query the GIS database
3. Modules applicable to the various departments of VMC

6.1.1 Standard Software Specification:

1. GIS Solutions proposed is to be GUI based and shall be compatible on Windows operating system. The database shall be developed on RDBMS Oracle 10g or latest licensed multi user version.
2. The GIS software could be any Industry standard GIS platform, easy to handle, operate, maintain & also train the VMC staff/end users.
3. The system shall provide the ability to simultaneously use, manipulate, display, output and maintain raster & vector graphics.
4. Software shall be complied as possible with open GIS consortium standards & specification for data & programming interchange. Possibility to integrate other applications procured by VMC.
5. The GIS application SW shall also cater the requirements like data security, Access level security.
6. Configuration: The application shall be hybrid structure as Web based & vendor shall develop Client-Server application software. The Client-Server architecture is proposed for Water, Sewer, Road & Transportation and Electric Network elements. General structure of SW, with demarcation of various modules & all supporting information (program codes) shall be supplied along with the SW with the sole purpose of providing on open system capability of incorporating modifications / additional modules as & when required by VIJAYWADA MUNICIPAL CORPORATION. To this extent vendor shall give necessary training to the user/group of users/specified number of persons in customizing the software.

6.1.2 Specific Operational Requirements:

GIS database shall be designed keeping following Departments in view. Some of the modules for those departments are mentioned below, however detailed System Requirement Specifications (SRS) shall be carried out prior to start of the development of the application.

- Town Planning , Revenue , Collection and Billing
- Road, Transport & Traffic Network
- Land Information system , Public Health , Waste Management , General Public Services

6.1.3 The General Application Functionality:

1. Software shall be highly user friendly.
2. System shall provide for efficient retrieval & analytical processing of the data contained in records.
3. System software shall have best performance on Windows.
4. On-line help shall be provided at all points.
5. The system shall be able to establish linkage between the graphic symbol and the Textual data, between the graphic symbol and the analytical data and between the textual the analytical data. Since these data items are linked together a reference to any data shall allow accessing all the linked data relating to any other item.
6. Automatic Verification of Edit Functions: The system shall have the facility to verify automatically, all edit functions. The verification process shall indicate to the user the graphic Element or textual data affected by the edit function. It shall then allow the user the option to proceed with the edit function or abort it.

6.1.4 Database Management functionality

1. The system shall have the provision of a flexible and efficient database with each element and link to associated graphic entity.
2. When an item in the drawing is changed, this change shall be reflected in the non-graphic database. This operation shall ensure that the drawings and non-graphic data records always remain consistent.
3. The system shall provide the following facilities:
 - Efficient Retrieval of Data, Data Updating
 - Selective Highlighting , Maintenance of Databases, Backup & Restore etc

6.1.5 Graphic features:

- The system shall incorporate drawing / drafting facilities similar to a standard GIS package.
- The system shall be able to draw / edit/ delete any element of drawing
- The system shall allow the user to construct a straight line or any symbol represented by a straight line by identifying the two points & the system shall automatically connect the two points. The system shall also allow the user to construct a line that requires text in line by entering three points, the middle point being the location in the line where text is created. In addition the system shall allow the user to extend or shorten the existing line.
- As plant maps show the geographic background against which external plant accessories are overlaid, it shall have the flexibility to view the land base information from the accessories.
- The system shall provide full flexibility & accuracy in selecting any position & shall be convenient of viewing the map.
- It shall be possible to label any Network entity with the data associated with it on the map.

6.1.6 Mapper:

Mapper shall display the geographic object in the database. Mapper shall display the information from several layers of maps at once. Clicking on the graphic object with the mouse shall instantly display related data of the particular object.

6.1.7 Browser:

Browser shall provide the viewing & manipulating of data on a traditional row & column Form, typically used in database.

1. The system shall draw the maps in distinct color & develop a suitable layer structure for viewing the map of various entities.
2. Either a whole or a part of the map shall be possible to accurately or conveniently be viewed. It shall be possible to conveniently size the map .
3. Labeling of the Network Elements: The system shall have provision to label the data entities on the map being viewed. When viewing the map on screen owing to high density of Network items, labeling of map entities may cause cluttering. The labeling facility shall have flexibility to hide unwanted labels when required.

6.1.8 Layering of Diagrams:

The system shall provide for arranging complete map of a selected area in a set of layers. It shall be possible to have separate layer for geographical entities.

1. The system shall provide graphical view of network elements such as Water, Sewer, Transportation and electric with reference to physical entities, roads, canals, houses etc.
2. The system shall provide a complete set of drawing tools & editing commands in order to enable the user to Draw & Modify any or parts of various geographical objects (viz. Circles, Rectangles, Polygons, Square etc.) on the map. The system shall be able to create / search any geographical objects within these boundaries like fill patterns, line symbols, text on map.
3. The system shall have the facility for addition of symbols & rearrangement of data on the graphic screen, without affecting the database.
4. The system shall provide facility for searching an item in the map.
5. The system should ensure that when an item in graphic data is changed, this change should be automatically reflected in non-graphic database & vice-versa.

6.1.9 Zooming:

The system shall provide the facility to the user to increase or decrease the magnification of the current display by any arbitrary magnification (zoom). The user shall also be able to specify the scale of the display and / or to designate an area on a display, which shall be magnified to fill the screen as closely as possible.

The Graphic GIS SW shall have the following features

- 2D Geometric Description, Flexible display & Element symbology
- User Friendly interface, Support of standard fonts & user defined fonts
- Support of element manipulation commands like copy, scale, move, rotate, mirror, delete etc. with single elements or group of elements.
- Support of English & Metric units of scale. Suitable interface for application Programming (user commands)
- "Built in support for Graphics Accelerate through Open GL and Quick Vision interfaces on all Windows platforms
- Smart Line and Accurate drawing tools to dramatically increase drafting productivity
- Support to external databases directly & through ODBC to create intelligent designs
- High Quality Rendering and Animation tools to enhance design visualization
- Programmable by End user. Automatic BASIC MACRO generator.

6.1.10 Query:

The system shall provide on-line queries such as: On entering a property Number the entire particulars and address shall be displayed and details of its built-up upto subscriber premises shall be displayed.

6.1.11 Reports:

The system shall be able to process data entered in the database & generate / display useful information in the form of report as desired by VMC.

6.1.12 Printing of Drawings:

The system shall be able to print the map. The system shall produce plot of any area map, the size of map ranging from A4 to A0

7. Other Requirements:

Satellite data

ICKNOO'S / CARASOAT/QUICK BIRD

Accuracy:

High positional accuracy has to be maintained for the satellite image. Ground control points (GCP) generated through the DGPS should use for Geo-reference the satellite image. Minimum of 20 Nos. of GCP should be used for Geo-referencing.

Acquisition of Satellite Data :

To make cost effective satellite data acquisition, firstly Quick bird 0.6 mts resolution, most recent Cloud Free as available Satellite imageries shall be procured from Digital Globe /National Remote Sensing Agency. Geographic Co-ordinates of urban sprawl in the Vijaywada city area shall be taken from geo-referenced VMC boundary data to make purchase order to Digital Globe/NRSA for high resolution pan sharpened recent Quickbird imagery. An additional buffer of 200-500 mts along the boundary of VMC should be taken as Extra Area while Ordering the Satellite Imagery to DG/NRSA to avoid any possible gaps. Due precaution should be taken to take only cloud free and vertical (nadir view) scene.

Geo-referencing of Satellite Data

At least 20 well-distributed locations on the satellite scene shall be chosen to take Ground Control Points (GCP) from Differential Global Positioning System (DGPS) for approx. 58 Sq Km area of VMC. Permanent Bench Marks (PBM) shall be established at the each control point with appropriate reference system. PBM dimensions shall be 40cm x 40cm x 100 (50 cm below ground level) of R.C.C.

Digital Photography

Photographs of the individual property shall be taken displaying maximum details; these photographs will be used for to link to the building database.

8. Preparation of Base Map: Based on project specification, spatial data shall be captured in different layers using head-up digitization process keeping in mind following parameters at least:

- The digitized vector line of the each feature to be restricted within the raster line outlining the respective feature on the Quick bird image and deviation of relative position of the digitized feature not more than 60-70 cm on the ground.
- Digitization of features using minimal number of vertices. The digitizing to be carried out in such a manner that the feature is made up of straight-line segment wherever the reality on ground depict so like buildings. The smoothness and shape of the features is to be maintained even after digitizing with least number of vertices.
- The each feature to be captured at specified layer and color scheme only.
- Region features like buildings, ponds, rivers etc to be represented by polygons and linear features like roads, lanes and streams to be represented by poly lines in the dataset.

8.1. Mosaicking/Edge-matching of Database

The entire vector database shall be edge-matched and topology shall be created. Unique identifier (Unique-ID) shall be generated for each and every feature for all Points, Polygons and Line features.

8.2. Hardcopy Plots of Vector base map

Plots shall be taken for vector drawing with Unique-id on 1: 2500 scales. The printout of the same Unique-id list shall be taken in table format and given for field verification, surveying team (GPR & Field Survey) as well as attribute database collection (Household Survey Team).

9. Finalization of Base map

Based on field input the Maps shall be corrected and proper topology shall be re-created.

Overlay of Other Layers

Maps of other layer like Administrative boundaries, Water, Sewerage, Roads network and other utility network shall be duly geo-referenced with respect to the above geo-referenced Satellite data to make all the data having common base and projection system for GIS analysis.

9.1. Formatting of Attribute Information

All the respective attribute information for different layers shall be formatted to make it GIS ready.

9.2. Finalization of GIS ready database

Finally, the attribute database shall be attached to the respective spatial layers based on common Unique-id.

9.3. Quality Check

Proper QC/QA process shall be followed at each step of Geo-referencing of Satellite data, Interpretation of Satellite data and during finalization of different layers.

9.4. Customization of GIS Software

Based on Client requirement & SRS finalization the GIS software shall be customized to make GIS query and analysis more convenient and easy for the user.

10 Garbage treatment plants & Waste Management: This module helps to restructure the entire system of garbage collection, disposal and monitoring using GIS. It makes the basis for investments on infrastructure and efficient disposal mechanism or transport model. The module should provide the following functionalities:

Digitizing / demarcation of the existing health ward boundaries.

1. Marking of solid collection depots, garbage collection locations, garbage collection garbage treatment plants, routes, streets, roads, ward/range/zonal/head offices etc. Creation of health ward-wise data about waste quantity details.
2. Feature for finding the shortest path from the collection point to the dumping yard. Tool to find out the alternate route.
3. Provide analysis tool to optimize the number of collection points & transport of garbage by using the population density of the area and no. of collection points in that area. Analysis tool for proper staff management.
4. Generate zone-wise, health ward-wise reports about quantity of waste, no. of collection points, staff involved in collection, density of population.
5. Max garbage generating points worst affected areas in the event of natural calamities and its possible disposal area wise/ward wise.

11 Roads and Transportation Net Work :

- Categorization of roads according to various parameters. CORPORATION will provide category Data/info.
- All categories of roads are shown on the map in different layers.
- System shall support auto-road drawing tool, which shall take as input width of the road & one edge of road, the system shall draw both edges of road keeping a constant width between them.
- Attributes of each Layer should include category of road (national highway, state highway, major city roads, streets and other minor roads), length of road, type of construction, condition of road (from PWD records), road width, type of terrain, traffic flow, footpath width, road capacity, volume on the road, accident information etc.
- System shall support analysis for widening of the roads based on road capacity, volume on that road and terrain specific feature of that area and also identify entities; which shall be affected by widening of the road.

12 Property Tax : General Information -Database Includes Plots and Owner's Information and Tax Information. Automatic tax calculation module based on various parameters. Municipal Corporation provides the parameters. Tax Status: Tax Status is shown on map through thematic mapping.

1. General Searching features like search by owner, name of property or location of Property etc.
2. The system shall have facility to create mailing list for property owners who have paid their tax.
3. Facility to attach picture of property and owner to the forms. The picture shall be shown on the mouse click of the property. Report generation as per requirement by CORPORATION.
4. Continuous updating of data to/from the existing system without changing the existing system.
5. System shall support import of AutoCAD DXF, DWG and Arc View shape files.

6. Data sharing –Different departments can share the data in different ways. Data is stored on a central server. Anyone on the network can share the data with proper and prior permissions of CORPORATION authorities.

13 Ward-Wise Information

1. The boundaries of the new ward or change in boundaries in case of existing wards shall be user definable.
2. Creation of the territorial area of the new ward contiguous to an existing ward by transferring a portion of geographical territory from the existing ward to new contiguous ward.
3. Transfer of associated entities and their related data from the previous existing ward into a new ward.
4. Rearrangement of ward area: The system shall have facility to transfer data from one ward to another within the same zone by redrawing the ward boundaries. The system should identify entities, affected by the rearrangement.
5. The system shall be able to generate the whole data from new ward by feeding the correspondence of old data with new data.
6. The system shall be able to calculate the area in square kilometer, square meter, square feet within the specified boundaries.

14 Building Permissions

- 1.The system shall identify the plot on map by giving its address. Once the property is located on the map, information should be checked against the map data, applicable codes and by laws etc. system should also support measurement of setbacks, lot areas, frontages, etc.
- 2.The system shall support attachment of blueprint with the plot for future reference.
- 3.The system shall automatically calculate the building fee on entering the area of construction (in sq.ft. and sq. m) and other information like approved landuse, any M.P road is abutting the site. Width of road etc.,
- 4.Existing and proposed land use as per Master Plan of the area covered with in VMC limits.
- 5.Width of existing roads and widths proposed in the sanctioned Master Plan shall be reflected in GIS mapping.
- 6.The system shall be capable of sending automatic mails to the Concerned Inspector and Circle offices of CORPORATION as soon as the building permission is given and work begins.
- 7.Inspectors can generate inspection report as and when required. Reports of inspection can be attached with the property.
- 8.Feature shall be provided for planning and inspections at different sites based on where the construction is going on.
- 9.The system shall find out the buildings, which are constructed with out building permits.
- 10.Integration of building permits module with property tax module.

15 Ward wise listing of VMC's Spatial/Non-Spatial data :

- 1.Ward wise listing of concrete / bitumen / WBM roads.
- 2.Ward wise listing of Drainage lines.
- 3.Ward wise listing of bridges, traffic squares.
- 4.Ward wise listing of community centers.
- 5.Ward wise listing of property owned by VMC, VIJAYWADA MUNICIPAL CORPORATION.
- 6.Ward wise listing of stadium, health clubs swimming pools etc,
- 7.Ward wise listing of empty land owned by VMC, VIJAYWADA MUNICIPAL CORPORATION.
- 8.Ward wise listing of statues, railway crossings and over bridges.
- 9.Ward wise listing of tempo/auto/taxi stands.
- 10.Ward wise listing of State Govt, central Govt and Semi Govt. offices.
- 11.Ward wise listing of cemeteries and cremation grounds.
- 12.Ward wise listing of Historical monuments
- 13.Ward wise listing of Public Amenities services.
- 14.Ward wise listing of religious places.
- 15.Ward wise listing of slum areas.
- 16.Ward wise listing of gardens, dense tree areas.
- 17.Ward wise listing of buildings.
- 18.Ward wise listing of wells, tanks.
- 19.Ward wise listing of Property tax collection.
- 20.Ward wise listing of Open areas (plots).
- 21.Ward wise listing of Shops and license numbers.
- 22.Ward wise listing of Talkies.
- 23.Ward wise listing of Private Schools.
- 24.Ward wise listing of Govt Schools.
- 25.Ward wise listing of Colleges.
- 26.Ward wise listing of Pvt. Health Services.
- 27.Ward wise listing of Govt Health Services.
- 28.Ward wise listing of Pvt. Clinics.
- 29.Ward wise listing of Gas Agencies and Petrol Pumps.
- 30.Ward wise listing of layout open spaces
- 31.Ward wise listing of Municipal Open Spaces
- 32.Ward wise listing of Lodges and Hotels
- 33.Ward wise listing of Marriage gardens.
- 34.Ward wise listing of Electric Poles.
- 35.Ward wise listing of Police Help Booths.
- 36.Ward wise listing of Police Dept Land.
- 37.Ward wise listing of PWD Land.
- 38.Ward wise listing of Legal Colonies.
- 39.Ward wise listing of illegal Colonies/structures.
- 40.Ward wise listing of Colonies developed by VMC, VIJAYWADA MUNICIPAL CORPORATION.
- 41.Ward wise listing of Garbage Collection Centers, Ward wise listing of Sweepers
- 42.Ward wise listing of Post Offices.
- 43.Ward wise listing of Fire Stations.
- 44.Ward wise listing of Number of People under poverty line/SC & ST.
- 45.Ward wise listing of Polling Booths with numbers.
- 46.Ward wise listing of Hillocks

47. Ward wise listing of Water bodies

Any other Specific layer suggested/asked by Corporation.

Integrated maps shall serve for the initial monitoring/project management/development of tools and inventories and also for Research and development. The entire Base map to be created in Real World Coordinates, Datum & Spheroids.

Note: Preparation of Data: The preparation of the data shall be in accordance with Municipal Corporations' as Operational & Planning Requirements.

16 PROJECT EXECUTION:

The project execution shall be followed for completion of the entire project is described below. The project shall be completed in phased manner indicated as below.

Phase-1: Design of the complete project

Phase-2: Mapping

Phase-3: Property Survey

Phase-4: Application development

Phase-5: Installation & commissioning of software and Training

Phase-6: Maintenance during warranty & CAMC period.

17 Design of the project :

The success of any project shall be depending upon clear understanding of requirements of the project and efficient design of it. The Phases 2, 3, 4, and 5 should be taken up with specifications designed in the phase-1. A detailed design document covering all aspects of the project has to be submitted to the VMC for approval within 30 days. Attribute data collection forms for project shall be finalized at this stage duly getting approval from VMC. Technical specification for various activities, time lines and milestones shall be clearly defined and documented properly to achieve the project objectives. The documents like Functional design document, Project Management plan, use cases, etc shall be prepared. Design specifications for both spatial and non-spatial data shall be defined and documented.

18 Mapping :

In this phase Land base map shall be created as per design specification prepared in the phase-1 by interpreting the rectified sub-meter satellite data. This vector data shall be edited and topology shall be generated. Prints shall be taken for Field updates/verifications.

Water distribution, Sewerage, Electric distribution network maps to be prepared in this mapping phase.

Administrative and all boundaries like Political, Electoral ward boundaries shall be finalized. Total area shall be divided into different cells for reference to carryout mapping and survey.

19 Property survey: Field survey shall be conducted to verify the Ground conditions on the Basemap & also to collect the attribute data. Survey shall be conducted with the reference system created in phase-2 and each team shall be allotted particular cells. Survey team shall carry the printed maps generated in the Phase-2 to field to locate the buildings and other structures and properties. The survey team shall consist of Surveyors/Co ordinate with Supervisor Survey Manager. Survey manger shall be responsible to and VMC for the entire survey work.

The following data shall be collected for the buildings for Water Connection, Sewerage network

1. Building Name, Owner Name, Address
2. Type & Year of construction, Use, Number of floors
3. No. of residential, no of commercial units , No. of Industrial units
4. Type of Water connection , Details of Sewerage connection
5. Year connection, Billing info.
6. Primary & Secondary Water & sewer network with detailed Water & Sewer network buildup from Primary.
7. Measurements of property with high accuracy

Standard Proforma shall be used for collection of the Information, which shall be finalized in consultation with VMC. The agency shall be reporting progress to VMC nodal officer on weekly basis.

20 Application Development:

This is to develop the GIS Application Suite as a modular Functionality for different Stakeholders/Departments/Users of these particular datasets on an Industry standard GIS SW Platform by customization & Implementation. A detailed SRS should be made by the Agency before starting this Application Development work and subsequently any Minor changes that boost the effectiveness of the Application Development should be catered by the selected Agency with no additional Cost Implications/burdens & shall not be entertained by VMC. The detailed SRS shall serve as final reference document for Decisions for this Application Development Amendments, if any. These changes will be communicated in written forms as shall be in the SRS Doc & Alterations/deviations from Original SRS approved should be at minimum as Specific Change Orders in writing. After Validation of customer specific requirement if any deficiencies or short comings are there, same shall be taken care by Agency in a time bound manner.

List of Applications required :

Town Planning application :

The application shall cater to the needs of the city planning wing by providing customized tools in te GIS software.

The requirements include, inter alia:

- Create 'what if' scenarios, Exp: New land use approval effect on infrastructure requirement, demand forecasting etc.
- Query present land use-ward wise, block-wise
- Query of approved land use
- Theming of parcel layer by zonation
- Customized Application for land use
- Customized Application for layout approval
- Tools to Incorporation of land use/ master plan changes
- Encroachment details
- Highlight plan violations
- Inspection and certification of building completion
- Statutory regulations captured as preset/customizable thematic layers.
- Application for rationalization and implementation of door numbering system
- Cable network details
- Road Measurement of plinth area of all types of buildings. Query existing / Proposed as per master plan widenings.
- Layout / Municipal open spaces, ward wise.
- Water courses, Nalas, river bunds, canal berms.

Taxation :

- Calculation of Monthly Rental Value (MRV)
- Automatic tax calculation module based on the parameters suggested by Municipal Corporation.
- General searching features like search by owner, Dr.No., Assessment number and name of the property or location of the property.
- Facility to attach picture of property / Digitization.
- Serving Notices
- Registration of Objects
- Hearing & Settlement
- Status of collection of taxes - bill collector wise, RU, Circle wise.
- Landuse details in respect tax-residential, commercial, mixed, industrial etc.
- Vacant land taxation application / marking of vacant lands.
- Defaulters' List
- Maintenance of Registers.
- Incorporation of survey details
- Report Generation

The above functions shall be implemented as GUIs with embedded GIS functionality.

Building Permit Information Systems.

- Integration of Building permit module with property tax module
- Identification of the Plot by the address given by the applicant.
- Approval for buildings, decision support system
- Calculation of Building fee based on norms and conditions
- Search for buildings, which are constructed without building permits.

Land Information :

- Categorizing the land classes
- Display of all Land uses as per data model
- Sub-division
- Amalgamation
- Change of ownership - Mutation
- Transaction / ownership history

Engineering Application :

1. Road Information Systems

- Attributes of each Layer should include category of road (national highway, state highway, major city roads, streets and other minor roads), length of road, type of construction - BT, CC, pucca etc, condition of road (from PWD records), road width, type of terrain, traffic flow, footpath width, road capacity, volume on the road, accident information etc.
- Connected utilities to road like UGD. Water supply, telecom, sanitation etc
- Street furniture
- Hoardings / advertisement boards
- Categorization of roads according to various parameters. CORPORATION will provide category Data/Info.
- System shall support auto-road drawing tool, which shall take as input width of the road & one edge of road, the system shall draw both edges of road keeping a constant width between them.
- System shall support analysis for widening of the roads based on road capacity, volume on that road and terrain specific feature of that area and also identify entities; which shall be affected by widening of the road.
- Drains length and size
- Street lighting

2. Water Supply and Sewerage Application.

- Source, HWW - Location and capacity of SRs pumping mains, booster stations, pumping etc., Location of bores....
- Water supply network details - from reservoir source to consumer, including valves, scourges, identification of problem areas, replacement options.
- Sewerage details : Sewerage network, connectivity, drainage pumping detail, storm water connectivity and storm water infrastructure, mainoles, IL/GL, flow, ventilating shath, pumping mains, STPs etc.,

Public Health :

The application shall serve the requirements of the PHE department. At the minimum the application shall provide tools for the following on the GIS data.

1.D&O licenses

2. Solid Waste Management :

- Waste disposal systems module
- Complaint management / status in solid waste collection and disposal

- Location of Govt.Hospitals/PHCs in the vicinity
- Facilities available in the Hospitals / PHCs
- Availability of Ambulance and emergency services
- Location of other major hospitals
- Public health management tool during major religious occasions
- Water borne/vector borne disease outbreak profile.
- Feature for finding the shortest path from the collection point to the dumping yard. Tool to find out the alternate route.
- Provide analysis tool to optimize the number of collection points and transport of garbage by using the population density of the area and no.of collection points in tat area. Analysis tool for proper staff management.
- Generate zone-wise, health ward-wise reports about quantity of waste, no.of collection points, staff involved in collection, density of population.
- Max garbage generating points worst affected areas in the event of natural calamities and its possible disposal area wise/ward wise.

Further details on the functions of the departments area available in the Municipal Manual of AP, However, exact nature and extent of applications will be finalized during the SRS before proceeding for development by successful bidder.

21 Installation & commissioning of software and TRAINING: The vendor shall install and commission the tested GIS software developed for VMC. Technical and operational manuals shall provide. Vendor shall provide complete training on the GIS technology for the CORPORATION staff.

1. Training for staff. Training to the concern officers of Municipal Corporations shall be given at each stage of the project and also the complete operational training for our customized GIS software and data updating shall be given.
2. Training Duration: The training duration shall be for four weeks and 20 persons shall be trained a/w special training shall be given to two officers as GIS system administrators for in-house operations.
3. Testing, Validation and issue of taking over certificate: The testing and Validation of the Customized GIS Software shall be done on the Hardware supplied by Agency as per the P.O. The Required LAN/WAN connectivity should be made available at the installation site by Municipal Corporation.
4. The source code along with the software components used shall be provided at the time of taking over. All other software/software licenses procured/acquired for/on behalf of VMC for the sole purpose of development of this module shall be handed over to the VMC at the same time.

22 Maintenance during warranty & CAMC period.

- Maintenance shall be the sole responsibility of the contractor during the Warranty period .Adequate establishment of technical staff shall be place in VMC for this purpose. . All the costs for this purpose shall be met by the consultant.
- Anti-virus software shall be installed & updated frequently to protect the database & software.Update of application package if any within technical limitations and scope of work shall be free of cost during warranty & post warranty maintenance period.

23 Responsibility of the tenderer:

1. Agency must appoint a Project Manager, directly accessible to VMC CORPORATION, to be responsible for the entire project including matters such as personal management, contracts administration, progress monitoring, logistic support, documentation, and operational set-up. He/she shall have the authority to make decision concerning the execution of all contractual activities & to accept & act upon any CORPORATION decision & be responsible for the smooth implementation with the help of specialized experts working under his/her control for the whole project.
2. Agency must submit the detailed schedule of implementation for various activities to be performed under the contract & shall include the information required for CORPORATION date wise. Agency shall submit overall monthly progress & status report to CORPORATION. In addition to that the Project Manager shall give report of the progress of the work up to date & the plans for the accomplishment of work remaining to be performed in the progress review meeting as & when required.
3. Agency shall not disclose/submit/supply/give the MAP/ attribute/ database information that they shall access during the phase of preparation & implementation of this Work Order to any third party/person. A Non-Disclosure agreement to be signed.
4. Till the validation of customized software by CORPORATION all development work shall be carried out on Agency's own hardware & software at their own premises.

24 Municipal Corporation's responsibilities:

MUNICIPAL CORPORATION will appoint one project coordinator from its side to liase with the contractor. He shall be responsible for the following.

1. Customization: For customization he shall be the person, to freeze the specifications in consultation with others competent authorities and the consultant.
2. Training: Project coordinator shall provide the necessary physical infrastructure for the training.
3. However, the consultant shall remain responsible for providing all data, and inputs and guidance to the VMC, for freezing such specifications. The consultant shall provide the training material and the project coordinator will examine and approve the material for tranining.
4. The necessary installations shall be done with the prior approval of the project coordinator as per the need .

25 INPUTS FROM VMC SIDE :

Base map (Prepared from satellite imagery maps), other maps, road network, drains, water/sewerage mains and distribution lines, street lighting, foot paths, other information available for GIS mapping. Supply of locality plans wherein existing door numbering is incorporated. Supply of all other available relevant information. VMC will provide GIS maps with all database on water and sewage network.

26 DELIVERABLES BY AGENCY:

The following items shall be deliverables of the project:

1. GIS Map with administration boundaries, election boundaries
2. Data bases collected through field visits and surveyors, for each set of theme, With all its attributes.
3. GIS maps for each set of themes with all its attributes
4. Integrated GIS maps for each set of themes, with all attributes
5. Digital photograph for each point theme and integration of the same into the integrated and individual GIS maps GIS maps with administrative, Election boundaries.
6. GIS Application software customized to the VMC requirement.
7. Well documented source code of the software including all software components used for future enhancements/modifications by VMC.
8. Complete technical documentation, design documentation and data Dictionary.
9. 2 sets of user manuals (GIS standard symbols have to be used for plotting ; The approval of VMC shall be taken for the symbol set Library.)
10. A single seamless digital geographical file containing features for the entire area.
11. Final ward map with all the features with 2 sets of printouts in 1:1000 and 1:2500 scale
12. The Agency shall submit the spatial themes/layers as mentioned in the scope of work.
13. Two sets of final data CDs shall be submitted at the end of the project to the VMC
14. Guidelines for comprehensive door-numbering of all properties in VMC area. The numbering parameters should be linked up with the GIS protocols.
15. Physical erection of door-numbers on houses according to the aforementioned guidelines.
16. GIS database and map with Property Tax Information.
17. GIS database with building permission information.
18. GIS database with utility connection information.

27. Contract period :

Entire project should be completed and delivered within 12 months of time from the date of award of contract.

a.: Delivery period: within 12 months from the date of award of contract.

b: Warranty/Service period: 18 months from the date of delivery.

28 PROCESSING OF HIGH-RESOLUTION SATELLITE IMAGE AND
CREATION OF BASE MAP

Interpretation & Digitization Layers to be created:

S.N	Feature Type	Layers	Remarks
1	Road Network	1.Major Roads 2.Minor Roads 3.Road center line medians / Dividers 4.Road Center line Medians / Dividers 5.Contour Level	Field survey and satellite data
2	Road Encroachment	1.Major Roads 2.Old Buildings	Field Survey
3	Buildings	1.Industrial Buildings 2.Public buildings 3.Residential Building 4.Commercial Building 5.Government Buildings	4m X 4m or larger
4	Land-use	1.Plots 2.Open Ground 3.Play Ground 4.Park 5.Forest 6.Agriculture Land 7.Burial Ground	Data to be captured by field survey
5	Drain	1.Drainage Kutcha 2.Drainage Pacca 3.Sewer Lines 4.Pipe 5.Manholes 6.Dustbins	Data to be captures by referring to the ancillary data

29 GENERAL INSTRUCTIONS :

- a) The Agency shall apply for the entire work.
- b) The firm selected should carry out the entire physical survey in entire Vijayawada Municipal Corporation limit for mapping of features connected with above themes and tasks and fill the information in the forms (given to the successful tenderers at the time of award) covering the items as specified in Annexure-1(Formats suggestive only) for furnishing all the properties in the Municipal Corporation area.
- c) The firm shall adopt unique numbering system and give number to each surveyed property. VMC will provide GIS maps with all databases on water and sewage network. This will have to be integrated into the integrated GIS maps being prepared in this contract.
- e) The agency should mark all the properties/features and computerize the same
- f) As different thematic layers using the base map provided by the Vijayawada Municipal Corporation in digital format.
- f) The Agencies shall prepare the administrative boundaries mentioned above on the large scale data base, taking the help of the circle wise municipal authorities.
- g) All the properties for which currently taxes are being paid, and having assessment numbers must be marked with unique symbol and the properties without assessment No. shall be represented with a different symbol.
- h) The mapping of properties shall include the measurement of plot and plinth areas for each and every property. Accurate measurements shall be covered in the survey. These properties shall cover every lane and need to be indicated differently.
- i) Mapping work shall include all the types of structures, open lands, play grounds, graveyards etc.,
- j) Digital photograph for each and every parcel/property shall be provided with a clear view of properties.
- k) The attributes including the descriptions/names of the features, properties and their condition shall be noted from the field. All the fields of attribute data mentioned in Annexure-I must be filled without any manipulations.
- l) All the survey tasks – mapping of properties, utility features and database collection shall be carried simultaneously.
- m) Vijayawada Municipal Corporation authorities will regularly supervise and support the survey teams. The agencies can seek their help in case of any field based problems.
- n) The agency shall provide identity cards to all its survey teams. These cards shall be attested jointly by the agency along with an authorized officer of Vijayawada Municipal Corporation.
- o) The Agency should take up the in-house processes simultaneously daily and
- p) the outcome of the survey with mapping work and database collection in digitals format shall be submitted at every week end.
- q) Failure in the submission of outputs for two consecutive weeks or if the field work is stopped by any reason for more than a week period, the work order issued to that company will be cancelled.
- r) The firm should procure the required licensed software, software components in the name of Commissioner, VMC and all the related material both in soft/hard form along with the original software and components and the related documents should be delivered to VMC. This implicitly means that all the further patches / enhancements of that software shall be delivered by the vendor directly to the VMC. The firm will act as facilitator and any complexity arriving in this regard shall be the sole responsibility of the firm/agency.

- s) The utilities mapping shall be undertaken on the scale of 1:1000 (derived from 1:2500 scale map) for urbanized core areas based on line/km survey.
- t) Cross verification will be taken up at any location randomly by Vijayawada Municipal Corporation teams and if any fault is found in the work, necessary action will be taken against the agency which is responsible. The work order will be cancelled forthwith.
- u) For wrong measurements and wrong information of the properties, the agencies will be made responsible and penalties will be imposed.
- v) The Agency has to give undertakings towards the security and confidentiality of inputs and final data products generated in the proposed work. They shall not use these inputs and outputs for any other purposes. All the field documentation and maps used for created in the field survey shall be handed over to Vijayawada Municipal Corporation after completion of the work.
- w) The mapping work shall be incorporated into digital environment on the input database provided by Vijayawada Municipal Corporation. Different projections and coordinate systems will not be accepted
- x) Linking or integration of attributes shall be carried by the agencies after completion of tasks.
- y) After the completion of GIS database development along with the integration of property tax database available at Vijayawada Municipal Corporation, the analysis work will be carried by the Vijayawada Municipal Corporation and fresh notices will be issued against the un-assessed and under assessed properties of circle .The agency shall deliver all such notices at the respective addresses.
- z) All the Original software / hardware, Licenses procured for/on behalf of VMC for the development of this package shall be sole the property of VMC.
- Z1. Provide for integration of the GIS data base with the existing utility data base of VMC so as to facilitate regular updation of the GIS
- Z2. Outline the protrols and fire walls necessary for sharing the GIS information with citizens through the VMC website also execute the same.

30 ELIGIBILITY AND QUALIFICATION CRITERIA

The Tenderer should fulfil the following conditions:

1. Company submitting bid must have created building level GIS dataset & GIS application using satellite image/orthoimage for at least one city nationally or internationally for area minimum of 100 SQ KM. The documentary evidence must be submitted.
2. The Company must be GIS/ IT software solution Provider Company registered under company's act and must be operational for 5 years or more as of Closing date of this Tender. The related documentary proof as company registration certificate must be submitted.
3. The company must be ISO 9000: 2001 / SEI CMM Level III or higher certification or equivalent certification recognized by IEEE certified one. The latest certificate issued by certifying body valid as of today must be submitted.
4. Copy of work order showing GIS based Land Map data set supply as mentioned in 1 above during the period at least last 2 years i.e. 2004-05 or 2005-06 for any city nationally /internationally.
5. Company has deposited Earnest money as mentioned in tender document.
6. Company should submit Solvency Certificate worth Rs. 500 lakhs from any nationalized/ Schedule Bank dated within last 3 months.
7. The Company must be an Authorized development partner for the Company whose GIS software they are using / supplying and customizing.

Necessary certificate must be attached.

8. The annual turn-over of the company for the last three financial Years should be Rs. 5 Crores or above and the audited Balance Sheets for 2 years should be enclosed (FY 2004-05 & 2005-06).
9. The firm shall submit documentary evidence in proof of their ability and experience claimed in the document submitted to Vijayawada Municipal Corporation in response to expression of interest
10. Agency should have its office at Vijayawada as the outcome of the job work needs to be submitted at every end day of the week.
11. Documentary proof on claims of Annual turn over shall also be submitted.
12. The firm should submit the list of its employees with their qualifications and experience. Knowledge of local language Telugu is essential for the survey team. The surveyor teams should consists of minimum one person qualified in Engineering with Planning, Civil, mechanical or post graduates in Survey technologies, Remote Sensing, GIS, Geo-Environmental, geo-sciences with GIS knowledge.
13. The Agency is requested to file an undertaking on appropriate court fee stamps, stating therein that.
 - a. Any Institution of Central/State Government has not declared the agency bankrupt.
 - b. The Government or any other organization has not blacklisted the agency, for failure to pay any dues and / or for violating terms and conditions attached to contract undertaken by it.
 - c. Any court has not adjudged the agency as insolvent or was/were not convicted under any Law for an offence involving moral turpitude or for any criminal activities etc., or was not detained under any preventive law..
14. The tenderer can enter into partnership with another firm or company subject to the following conditions.
 - a. Maximum one partner will be allowed.
 - b. The Principal bidder and the partner both should have the same experience as claimed by the principal bitter in response to E.O.I.
 - c. The principal bidder should disclose the terms and conditions or partnership, full particulars of partnership and enclose the authenticated copy of the agreement between them in relation to this tender.

31 Mode of Payment

The payment for the tendered work shall be made in the following manner:

Agencies can claim their bills as per the payment terms & conditions in the Chapter II (6) against the bills raised in this regard. Only 70% of the payment against the submitted outputs will be made after verification, certification and and satisfaction of the Corporation. For which purpose the Corporation may constitute a

committee and basing on its recommendation take necessary action for the payment.

After completion of the entire project work, the balance 30% of the billed tendered amount will be released after verification, certification and satisfaction of the Corporation. However, after the completion and certification of final outputs the balance will be released within one month.

As per the provisions of Income Tax, Sales Tax, Service Tax and all other central and State Government taxes are deducted from the payment. The tenderer is also responsible for all taxes, fees and other charges of the Corporation and other Government Departments.

The successful bidder will be paid an additional incentive of 10% for each new un assed property or vacant land captured in the survey.

32 Penalty Clause :

A penalty of 1% of the total value of the work order will be deducted towards the delay by every 7 days of the execution of the project.

Force Majure: In case of natural calamities like flood,earth quake and also Epidemics, riots and civil conflicts the time delay will be condoned by VMC Accordingly.

33 Earnest Money Deposit

1. The Tenderer shall furnish as a part of the Tender Earnest Money Deposit as mentioned in the table of Page 2.
2. The Earnest Money to be furnished shall be in the form of demand draft drawn on a Nationalised Bank in favour of the Commissioner, Municipal Corporation, Vijayawada payable at Vijayawada.
3. Any tender not accompanied by the proof having deposited the required Earnest money shall be rejected.
4. In the event of the tender, being accepted subject to provisions of the sub-clause 4.4.5 below, the said amount if so requested by the Tender, shall be appropriated towards the amount of Security Deposit of the offer cost payable by him under the conditions of contract.
5. In the vent of Tender being not accepted the amount of Earnest Money deposits by the Tenderer shall be refunded to him on passing of receipt, therefore.
6. The Ernest Money deposits with the Corporation shall not carry any interest.

34 Amendment of Tender Document

The Commissioner, for any reason, whether at his own imitative or in response to a clarification requested by eligible Tenderers, modify the Tender document by issuance of an addendum. The addendum will be sent in writing to all eligible Tenderers to whom it has been supplied.

II. SUBMISSION OF TENDER

1. The Tender Submission :

The Tender shall be submitted in two sealed envelopes marked as Envelope-A and Envelope-B and shall again be put together in one common cover and seal. This sealed cover shall be marked on the left-hand top corner, "Tender for GIS mapping of Civic Services Vijayawada.

The full name and address, phone number and mobile no. of the Tenderer and the name of authorized Agency delivering the seal cover containing the Tender shall be written on the bottom left hand corner of the sealed cover. The date and time of the receipt of the Tender shall strictly be observed in all cases. The person or persons signing the Tender papers shall state in what capacity he is or they are signing the Tender, viz as a sole proprietor of a firm or as a Secretary/Manger/Director, etc., of a limited company. In case of a partnership firm, the names of all the partners should be disclosed and the Tender papers shall be signed by all the partners should or in the event of absence of any partner, it shall be signed on his behalf by a person holding a power of attorney, authorizing him to do so and an attested copy of the names of all the Directors should be supplied. The Tender should be accompanied by a certificate stating there in that the person signing the Tender papers are duly empowered by resolutions of the Board of Directors to do so on behalf of the company and certified copy of such resolutions along with a copy of Memorandum and Articles of Association of the Company should also be furnished.

2 Contents of Envelope – A:

The Envelope-A shall contain the following documents.

- a) Earnest money Deposit or Demand Draft s mentioned in Table of page 2
- b) Detailed Technical methodology of the proposed work i.e. Comprehensive Survey for mapping of properties / features and GIS database development.
- c) Undertaking in the specified format in Annexure-2.
- d) Experience Certificates or copies of work orders regarding previous satisfactory executed works, preferably Govt. Assignments.
- e) 2 years Audited Balance sheet certified by Chartered Accountant.
- f) Undertaking on appropriate Court fee stamp (as per clause 3.6.7)
- g) Partnership Deed, if any
- h) Documents regarding the legal status of the agency.
- i) Information regarding current litigation debarring / blacklisting / expelling of bidder or an abandonment of work by bidder, if any

3. Contents of Envelope-B

The second envelop clearly marked as Envelop-B shall contain the prescribed financial Tender offer as mentioned in Schedule-A, duly signed and sealed by the agency including the common set of terms and conditions issued by the Corporation, pre-bid meeting clarification.

The agency shall quote its commercial offer duly keeping in mind all the parameters to be collected in the comprehensive field survey as mentioned at Annexure-1.

The Tenderer shall quote his commercial offer at the appropriate place in schedule-A to be submitted in cover-B. He shall not quote his commercial offer anywhere else, directly or indirectly in any other envelopes or any place of the document under any circumstances.

3.2 Place of Submissions of Tender

The Tenders shall be submitted in the Office Municipal Corporation Vijayawada.

3.3 Date and Time of submission of Tender

The Tender shall be received by the Municipal Corporation of Vijayawada at his Office not later than 19.09.2007 upto 3.00 P.M. The Commissioner may at his discretion, extend the dead line for submission of Tender by issuing an addendum in accordance with clause 4.7, in which case all rights and obligations of the Corporation and Tenderers previous subjected to the original deadline shall be subjected to new deadline, for receipt of tender papers.

3.4 Late Bids:

Tenders received after the deadline of submission as stated in clause 5.3 herein before shall not be accepted, and in case they are inadvertently accepted will not be opened and shall be returned unopened to the Tenderer.

3.5 Withdrawal of Tender

If after submission of the Tender, the Tenderer withdraws his Tender, without prejudice to any other rights and power to the Corporation under any law, the Corporation shall be entitled to forfeit the full amount of the Earnest Money deposited by the Tenderer.

III. TENDER OPENING AND EVALUATION

1 Tender Opening

All Tenders will be opened in the presence of Tenderers / their authorized representatives who choose to remain present at the office of the Commissioner, Municipal Corporation, Vijayawada on the date to be conveyed.

1. The following procedure shall be adopted for opening of the Tenders.

- ii) To begin with all relevant information about number of tender will be announced for information to all those present.
- ii) The outer envelope-C containing envelope-A & B for all the Tenders received shall be opened first and envelope-A & B of all the Tenders will be arranged alphabetically as far as possible and will be marked with serial numbers, accordingly.
- iii) Thereafter Envelope-A of each Tenderer will be opened serially. The tender opening authority should check their validity as per the requirements stated in clause 5.1 by verifying documents contained in the said envelope-A. If any requisite particular is wanting a note to that effect will be recorded by the authorized office. The contents of the envelope-A shall be then scrutinized minutely with reference to the eligibility criteria.
- iv) Tenderers who have submitted the documents as per the requirements stated in 5.1 will be listed and announced immediately.
- v) The technical team of Vijayawada Municipal Corporation will analyze the technical methodology and expertise of the tenderer from the documents submitted by the tenderer and after analysis, the tenderers who are technically qualified will only be called for opening of their commercial proposals.
- vi) Those who are not qualified in the technical evaluation, shall not be eligible for opening their envelope-B and shall be treated as disqualified.

2 Selection of the Agency

A) General

From the time the bid are opened to the time the contract is awarded, if any Agency wishes to contact the Municipal Corporation, Vijayawada on any matter related to its proposal it should do so in writing. Any effort by the firm to influence any officer or bearer of the municipal Corporation, Vijaywada in the proposal evaluation, proposal comparison or contract award decisions may result in the rejection of the Agency's proposal.

B) Evaluation of Technical proposals

The Technical proposal and if required, the presentation given by the agency shall be judge by the Evaluation Committee appointed by the Commissioner, Municipal Corporation, Vijayawada in following manner:

- a) The Technical proposal shall carry a technical score (St) of 60 marks.
The weightage will be as follows:
- Methodology of the work execution covering all aspects mentioned in the scope of work – 10 marks
 - Past experience of relevant GIS works which will be verified from the documentation proof of previous work orders. Preference shall be given to those agencies who have completed similar works pertaining to Govt. Org. and supported with authentic certificates - 40 Marks.
 - Agency profile & Technical qualifications and experience of the working team – 10 Marks.
- b) The agencies may submit the precise documentation which is highly relevant to the present project in not more than 10-15 pages each so as to enable valuating member committee to look into the skills of the agency in the relevant area. The documentation, which is not connected with the present work, is not required.

C) Evaluation of Financial Proposals

The tenderers who get 30 marks and above in technical evaluation will only be eligible for opening of financial bids.

The Financial proposal shall carry 40 marks.

The formula for determining the financial scores is the following:

[$S_f = 40 \times F_m/F$ in which S_f is financial score and F the price of the proposal under consideration and F_m is the minimum price quoted]

D) Total Score

The score ($S_{total} = S_t + S_f$) of Technical Proposal and Financial proposal are to sum up to form the total score for the individual agency.

3. Workshop Session

A workshop programme will be conducted at Vijayawada Municipal Corporation Office with all Section Heads and any other Government agencies to plug loopholes and to use the proposed project to the best advantage of Local Body. The date and time of the workshop will be informed to the selected agency in advance. The agency shall appoint their team leaders to participate in this programme.

4. Process to be Confidential

After opening of the Tenders, no information relating to the examination, clarification, evaluation and comparison of Tenders and recommendations concerning the award of contract shall be disclosed to the Tenderers or their representatives, if any.

Any effort by a Tenderer to exert undue or unfair influence in the process of examination, clarification, evaluation and comparison of Tenders shall result in outright rejection of the tender offer, made by the said tenderers.

5 Tender liable for Rejection

The tender is likely to be rejected if on opening the tender papers, it is found:

- a) The tenderers have not strictly followed the procedure laid down for submission of the tender.
- b) The Tenders have proposed conditions or qualifications, which are in connection with or contrary to the terms and conditions specified by the Corporation.
- c) The Tenderers make additions, corrections or alteration on any page of Tender documents.
- d) Any page or pasted slips in the tender papers are missing.
- e) The Tenderers have specified any additional condition.
- f) The Tenderer has not attached the addendum to the main Tender Form in clause 5.1.

Note: The Tenderer shall implicitly give the Commissioner the right to and, if required, inspect sites of ongoing works, in respect of tender.

IV AWARD CRITERIA

1. AWARD CRITERIA:

Commissioner shall accept the Tender of the Tenderer whose Tender has been found to satisfy all requirements of Tender document and which is most advantageous to the Corporation without giving any reason/clarification thereof. It is not mandatory to select the Lowest bidder.

2 COMMISSIONER'S RIGHT TO REJECT:

Notwithstanding the Commissioner reserves the right to accept or reject any Tender and to annul or suspend the Tender process and reject all the Tenders at any time without any assurance for costs or consequences on the part of the Tenderers.

3 NOTIFICATION OF AWARD:

Prior to the expiration of Tender validity or any such extended validity period, the Commissioner shall notify the successful Tenderers in writing and also by a registered letter that his Tender has been accepted. This letter (herein after and in conditions of contract called letter of acceptance) shall specify the details of accepted Tender.

4 SECURITY DEPOSIT:

The successful bidder shall credit to the corporation a security deposit equal to 5% of the Tender amount in the form of Bank Guarantee of any Nationalized or a Scheduled Bank within 10 working days valid for 24 Months from the date of award of the contract. The Earnest Money deposited by the successful Tenderer shall be returned on submission of the security deposit as mentioned above.

V. OTHER TERMS AND CONDITIONS OF CONTRACT

1.1 DEFINITION:

1.2 AGENCY :

The term Agency shall mean and include a person or persons, firm or company, who has been appointed as "Agency" by the VMC, Vijaywada Municipal Corporation for the Preparing GIS Based Land Base Map & attribute data for properties within VMC area for tax assessment with creating appropriate Numbering system of Properties (Land & Buildings) & Mapping of Underground Utilities by GPR in the VMC, Vijaywada Municipal Corporation and in case of natural person, him/her, his/her heirs executors and in case of partnership firm a partner or partners of the firm.

1.3 CORPORATION:

The term "Corporation" shall mean VMC, Vijaywada municipal corporation, Vijaywada constituted under the provision of the AP Govt provincial Municipal Corporation Act.

1.4 CONTRACT:

The term "Contract" shall mean and include (i) Notice inviting Tender (ii) Terms and conditions of Contract (iii) Tender Form (iv) Form of acceptance (v) Form of agreement (vi) Mutually accepted conditions in writing signed by both the parties

1.5 COMMISSIONER:

The term "Commissioner" shall mean and include the Municipal Commissioner. Of VMC, Vijaywada Municipal Corporation, Vijaywada appointed under Section ----- and includes an acting Commissioner appointed under Sec. ----- and any Officer/s delegated with powers of Commissioner under Section -----.

1.6 CONTRACT AMOUNT:

The term "Contract Amount" shall mean the sum quoted by the Agency in his Tender.

1.7 ACT AND RULES:

The term "said Act" and "said Rules" shall mean and include the AP state Govt. Rule for similar fields / Provincial Municipal Corporation Act and Rules framed there under from time to time. The resolutions passed by the VMC, Vijaywada Municipal Corporation for Preparing GIS Based Land Base Map data for properties within VMC area.

- 1.8 Property : Property means property as assessed by VMC for the purpose of property Tax i.e., Flat, Block, Barrack, Shop, Office, Godowns, Hut, etc. and includes messenger, buildings and lands of any tenure whether open or enclosed, whether built or not and whether public or private.
- 1.9 PROPERTY means buildings & lands in the city.
- 1.10 LAND : Land includes land which is being built upon or is built upon or covered with water, benefits to arise out of land, things attached to the earth or permanently fastened to anything attached to the earth and rights created by legislative enactment over any street.
- 1.11 BUILDING: Building includes a house, out-house, stable, shed, hut and other enclosure or structure whether of masonry, bricks, wood, mud, metal or any other material whatever, whether used as a human dwelling or otherwise, and also includes verandas, fixed platforms, plinths, doorsteps, walls including compound walls and fencing and the like.
- 1.12 PARTIES TO CONTRACT: The parties to contract are the Agency/s and the Corporation. Notice or any other action to be taken on behalf of the Corporation, may be given/taken by the Commissioner. Or any other Officer, duly authorized for the purpose on this behalf.
- 1.13 PERIOD OF CONTRACT:
- b. The delivery period is within 12 months from the award of contract.
 - c. The contract period for Warranty and thereof services under warranty is for 18 month from the date of deliveries.

2. OBLIGATIONS OF AGENCY:

a. Deliver all deliverables in scheduled time as given under

SI No	Deliverables	Time frame	Remarks
1	Complete survey of properties and utilities and mapping of the properties and utilities on the base map.	3 months	
2	Attribute data collection and computerization.	2 months	
3	Integration of spatial and attribute data.	2 months	
4	Linking of GIS data and MIS data	2 months	
5	GIS application software development (customization to the requirement and convenience of VMC) and documentation.	2months	

6	Training	1 month	
7	Maintenance during warranty period (i.e after successful maintenance during warranty period.)	18 months	

- b. Must appoint a project manager, other managers, officers and representatives, as it may deem appropriate to supervise the Project and to deal with the VMC Representative and be responsible for the smooth execution of the project.
- d. Undertake, do and perform such acts, deeds and things as may be necessary *or* required for Project Completion under and in accordance with this Agreement.
- e. The Agency shall prepare and submit with reasonable promptness and in such sequence as is consistent with the Project completion schedule, to VMC
- f. Provide to VMC reports on regular weekly basis during the Project Period.
- g. Service Tax and all other Taxes shall be borne by Agency. Agreement of terms and conditions is to be made by agency on appropriate bond costs and shall be binding on both.
- h. All the information, data, Satellite image procured will be the property of VMC and the company in executing the project must assure confidentiality. If found inappropriate on those terms VMC, Commissioner reserves the right to terminate the contract with immediate effect without giving any reason and is not responsible for any loss/damage thereof as such incurred by company.

3. EVENTS OF DEFAULT ON PART OF AGENCY:

Failure to deliver all deliverables in 6 months for the area as asked by VMC and work order mentioned in the tender, VMC shall impose penalty of 1% of contract value on per week delay basis.

Force Majure: In case of God's act like Flood, Earthquake & other incidence like Epidemics, Riots & Civil conflicts, the Penalty & deadline will stand absolved and will either be extended or project is scrapped.

4. Numbering System:

- 1. The system, which is proposed to adopt for numbering, shall be adopted after approval of Commissioner, VMC
- 2. Agency shall submit various alternatives of numbering system with their analysis and demo for any specific area.

5. PAYMENT TERMS AND CONDITIONS:

The payment shall be made on the basis of the bills submitted by the Agency and endorsed by the concerned department. Mode of payment and acceptance of bills shall be as below

Sl No	Deliverables	% of payment recommended	Remarks
1	Complete survey of properties and utilities and mapping of the properties and utilities on the base map.	20%	
2	Attribute data collection and computerization.	10%	
3	Integration of spatial and attribute data.	15%	
4	Linking of GIS data and MIS data	15%	
5	GIS application software development (customization to the requirement and convenience of VMC) and documentation.	15%	
6	Training	10%	
7	Maintenance during warranty period(i.e after successful maintenance during warranty period.)	15%	

IMP: Before releasing the final payment the corporation shall ascertain the correctness, authenticity and impeccability of the Image & the Vector data.

6. ACCEPTANCE TESTING :

Once the land base is created with a fully managed data model; the vendor should repeatedly test it in single GIS check for all the functionalities expected from the system. The testing of the System should be performed under supervision of VMC officials.

7. STAFF TRAINING:

Agency shall impart training to the municipal staff that shall operate and shall ultimately maintain the system. Municipal staff shall operate and shall be provided for the purpose of training. The training shall include following.

a. Familiarization:

The concept of GIS is known and understood by the staff.

b. *Operation:*

1. Complete orientation of the functionalities of the Land Base Map data.
2. Maintenance and understanding the important functionalities of the software platform.
3. Training on developed map data model.
4. Data entry and correction in the data entry for future amendments.
5. Training period: For 20 VMC officials for 4 weeks. The detailed schedule for the same shall be conveyed by VMC later.

8 DOCUMENTATION :

Agency shall submit User Manual, Printed-training material and Warranty documents at the time of commissioning.

The entire document shall be of good quality and picture/screens and Representation shall be in color. The language shall be simple and clear. These documents shall be submitted at the time of handing over of the system. The user manual shall consist of user-friendly screen shots or data entry forms in color for easy understanding. The user manual shall be simple in understanding the operation of the map data model and software. The user manual shall enhance the training imparted by the AGENCY.

9 WARRANTY:

- a. Agency shall rectify any defects, shortfalls or other malfunction that may have been overlooked earlier or may occur during operation. Agency shall execute such rectification free of any charges during the specified warranty period.
- b. Agency shall document all such alteration to the system diligently.
- c. Agency shall update the documents like manuals that are affected by such alteration to the system.
- d. Agency shall, before the expire of the warranty period, submit to the department the latest version of all documentation, manuals, and any other component of the system deemed necessary so as to enable the department to modify any or all of the component of the entire system.

Agency shall not withhold any information that may hinder the goal of the department achieving self-sufficiency with reference to the installed solution.

- f. The "Warranty Period" of 18 months shall be deemed to have commenced on successful completion of acceptance Testing/Commissioning, phase and issuance of the Acceptance Testing certificate to the AGENCY. The start date of the warranty period shall be calculated as the immediate next day from the date the Acceptance Testing Certificate to the AGENCY.
- g. Agency shall commit to corporation, the maximum tolerable downtime for the system. Any disruption in smooth functioning of the system shall be attended to and rectified by Agency within this downtime; Agency shall take all measures, including preemptive measures to ensure maximum uptime for the system.

10 COMPLETION:

The Contract shall be deemed to be complete on successful deployment and acceptance of all the deliverables mentioned in contract, including expire of the warranty period. The 'Completion Certificate' issued by the department shall substantiate this fact. The Corporation shall pay the final remainder of the total amount after such completion of all the stages of the final remainder of the total amount after such completion of all the stage of this project and after Agency produces the final bill along with copies of the requisite certificates issued by VMC.

11 SUPERVISION BY MUNICIPAL OFFICER:

The Commissioner, or any officer/s appointed in this behalf, shall have the overall right, authority, control and supervision over the work carried on by the Agencies with a view to ensure that the work is carried out smoothly and efficiently and without any hindrance to or harassment of owners of the property. The instructions given by the Commissioner from time to time in this regard or in any regard shall be promptly complied with by the Agency. However, the Corporation or any of its employee/s shall not interfere with the working of the Agency.

12 SECURITY DEPOSIT:

- a. The successful tenderer shall furnish the Security Deposit in the form of Bank Guarantees of to the tune of 5% of the contract value of any Nationalized Bank or Scheduled Bank valid for 18 Months from the date of award of contract as and by way of security deposit within 10 days of the acceptance of his Tender, failing which the contract shall be liable to be cancelled at the risk and cost of the Agency/s and EMD shall be forfeited subject to such other rights and remedies as may be open to the Corporation under the terms of contract.

b. The Corporation shall have the security deposit in the form of Bank Guarantee furnished by the Agency, not only for the period of 18 months but thereafter till the entire, conditions and provisions of the contract and that in case of defaults on the part of the Agency to perform and observe any terms of the said contract and observe any of the said covenants, conditions or provisions or in the event of termination of the contract by the Corporation on any ground under any clause; it shall be lawful for the Corporation on Its absolute discretion to forfeit the whole or any part of the security deposit without prejudice, nevertheless, to any remedy that the Corporation may have against the Agency under the contract for such breach and the Corporation shall be entitled to encash the Bank guarantee forthwith and to appropriate the Security deposit or any part thereof in or towards the satisfaction of any claim of the Corporation for any damages, loss, costs, compensation, charges or expenses or otherwise howsoever. The decision of the Commissioner in respect of all these matters shall be final and binding on the Agency.

c. In the event of security deposit being found insufficient or if the security deposit has been wholly forfeited, the balance of total sum recoverable as the case may be shall be paid forthwith by the Agency on demand made by the Corporation for the remaining balance indemnify Municipal Corporation against any claim for damage or injury to persons or property resulting from and in the course of work and also under the provision of the workmen's compensation Act.

d. On the occurrence of an accident arising out of works which results in death or which is so serious as to be likely to result in death the Agency shall within 24 hours of such accident, report in writing to the Municipal Commissioner the fact stating clearly and in sufficient details the circumstances of such accident and the subsequent action. All other accounts on the works involving injuries to person or damages to property other than that of the Agency shall be promptly reported to the Municipal Commissioner stating clearly and in sufficient details the facts and circumstances of the accidents and the action taken. In all cases the Agency shall indemnify the Municipal Corporation against all loss or damage resulting directly or indirectly in this behalf Agency's failure to report in the manner aforesaid includes under the workmen's Compensation Act as to conform to the provision of the said Act to such accidents.

e. In the event of an accident in respect of which compensation may become payable under The Workmen's Compensation Act, (VIII of 1923) or any other act including all modifications hereof whether such compensation may become payable by the Agency or by the Corporation, the Corporation shall retain whole or part of the deposit due and payable to the Agency such sum or sums of money as may in the opinion of the Municipal Commissioner sufficient to meet such liability, on receipt of award from the labour Commissioner in regards quantum compensation the difference in amount shall be adjusted.

13 DISPUTES:

1. In case of any dispute, the same shall be refereed to the Municipal Commissioner and his decision shall be final and binding on the Agency and it shall be treated as award.

2. All matters as dispute shall be subject to the jurisdiction of Vijaywada.

14 Subcontract :

No JV - Joint Ventures, subcontract are allowed and is liable for rejection if submitted in the form of JV.

VI PROFORMA

SAMPLE FORM OF AGREEMENT

This agreement made on this _____ Day of _____ 2007, the year two thousand seven at Vijaywada, between the VMC, Vijaywada Municipal Corporation, Vijaywada through its Commissioner, hereafter referred to as the "Corporation" (Which expression shall unless the contact does not so admit, includes its successors and assigns) of the FIRST PART.

AND

SHRI _____

SHRI. _____ AND SHRI. _____

_____ carrying on business in partnership of _____

_____ At _____ in the firm

name and style of _____ limited

Company registered under the Companies Act, 1956 No. I to 1956) and Provision for trust/Society and having its Registered office at _____

Hereafter referred to as the Agency (which expression shall unless the context does not so admit, includes him/his heirs, executors, s, supervisor, the partner/s for the time being) OTHER PART

WHEREAS the VMC, Vijaywada Municipal Corporation, Vijaywada is levying property tax or the properties within the limits of VMC, Vijaywada Municipal Corporation, under the provision of AP Govt Provincial Municipal Corporation Act, and Rules there under, and the Resolutions passed by the Municipal Corporation, Vijaywada from time to time,

and WHEREAS if an Agency is appointed for Preparing GIS base Map data of properties

with creating appropriate Numbering system of Properties (Land& Buildings) in _____ the

VMC, Vijaywada Municipal Corporation area, the Corporation can fetch more revenue which can be utilized for performance of obligatory and discretionary duties cast upon it and WHEREAS it is expedient and in the interest of the Municipal Corporation to appoint an Agency for Preparing GIS base data of properties with creating appropriate Numbering system of Properties (Land& Buildings) in the VMC, Vijaywada Municipal Corporation area

WHEREAS with a view to select and appoint suitable Agency for Preparing GIS base data of properties with creating appropriate Numbering system of Properties (Land& Buildings) & Mapping of Underground Utilities by GPR in the VMC, Vijaywada Municipal Corporation area the corporation had invited Tenders by issuing public Notice in

Prominent and National News papers, and

WHEREAS the Tender submitted by the Agency has been accepted by the Municipal Commissioner / and the Municipal Commissioner and

WHEREAS the Commissioner, Vide Resolution No._____ dated_____ is authorized to enter into the contract on the terms and conditions mentioned in this agreement, and

WHEREAS the Agency has in pursuant to one of the terms and conditions of the contract, furnished security deposit in the form of Bank Guarantee as security for due observance & performance of the terms & conditions of the contract, and

WHEREAS the Agency has generally undertaken to abide by all the terms conditions, directions and suggestions as contained in the set of tender documents;

Notice inviting the Tender, terms and conditions of the contract, shall be part and parcel of this agreement/contract. IN WITNESS WHEREOF THE CORPORATION, HAS CAUSED COMMISSIONER VMC, VIJAYWADA MUNICIPAL CORPORATION, VIJAYWADA , HEREUNTO SET HIS HANDS AND AFFIXED THE SEAL OF THIS OFFICE FOR AND ON ITS BEHALF AND THE AGENCY ABOVE NAMED HAS HEREUNTO SET HIS RESPECTIVE HANDS/COMMON SEAL OF THE AGENCY HAS BEEN HEREUNTO AFFIXED THE DATE AND THE YEAR HEREIN ABOVE WRITTEN.

(SIGNED, SEALED AND DELIVERED BY)

(By Commissioner / for and on behalf of the VMC, Vijaywada Municipal Corporation, Vijaywada in the presence of)

1)_____

2)_____

SIGNED, SEALED AND DELIVERED

By Shri._____

and Shri.

the above name Agency in the presence of

1) _____

2) _____

The common seal of _____

_____ Ltd. above named Agency was in pursuant to the Resolution passed at the meeting of the Board of Directors of the said Company duly convened and held on the day of _____ 2007 _____ hereto affixed in the presence of Shri. _____ and Shri. _____ being respective the _____ and _____ of the said company who in taken thereof have hereto set their respective hands in the presence of

1) _____

2) _____

SIGNED, SEALED AND DELIVERED

By Shri. _____

and Shri.

the above name Agency/s in the presence of

1) _____

2) _____

5b.

BANK GUARANTEE FOR PERFORMANCE

IN CONSIDERATION of the VMC, Vijaywada Municipal Corporation, Vijaywada through its Commissioner. , (hereinafter referred to as "The Corporation") having decided to entrust to

_____ (hereinafter referred to as "the Agency") the work of for Preparing GIS base data of properties with creating appropriate Numbering system of Properties (Land& Buildings) & Mapping of Underground Utilities by GPR in the VMC, Vijaywada Municipal Corporation area (hereinafter referred to as "the said work") on the terms and conditions of the Agreement dated the _____ day of _____ 2007 _____ executed between the Vijaywada Municipal Corporation, Vijaywada on the one part and the Agency on the other part (hereinafter referred to as "the said Agreement") and the terms and conditions specified in the Terms and Conditions of Contract, Form of Tender and Form of acceptance of Tender, and the true and complete copies of the Tender submitted by the Agency, the said Acceptance of Tender and the said Agreement are annexed hereto, the Agency has agreed to furnish to the Corporation a Guarantee of a Nationalized / Scheduled Bank of the sum of Rs. _____ which shall be the Security Deposit for the due performance of the terms covenants and conditions of the said agreement, We _____ Bank/Registered in India under

_____ Act and having one of our Local/Head Office at

_____ do hereby guarantee to the Municipal Corporation, Vijaywada. |

(I) Due performance and observance by the Agency of the terms, covenants and conditions on the part of the Agency contained in the said Agreement, AND

(ii) Due and punctual payment by the Agency to the Corporation of all sums of money, losses, damages, costs, charges, penalties and expenses that may become due or payable to the Corporation by or from the Agency by reason of or in consequence of any breach, non-performance or default on the part of the Agency of the terms covenants and conditions under or in respect of the said Agreement.

AND FOR THE consideration aforesaid, we do hereby undertake to pay to the Corporation on demand without demur the said sum of Rs. _____/-
Rs. _____)

together with interest thereon at the rate of 20% per annum from the date of demand till payment of such lesser sum as may demanded by the Corporation from us as and by way of indemnity on account c any loss or damage caused to or suffered by the Corporation by reason of any breach, non-performance or default by the Agency of the terms covenants and conditions contained in the said Agreement or i 1 the due and punctual payment of the moneys payable by the Agency to the Corporation there under and notwithstanding any court of or Tribunal relating thereto our liability hereunder being absolute and unequivocal and irrevocable AND hereby agree that-

a) The guarantee herein contained shall remain in full force and effect during the subsistence of said agreement and that the same shall continue to be enforceable till and all the dues of the Corporation under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged and till the Corporation Certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the Agency.

b) We shall not be discharged or released from liability under this Guarantee by reasons of

(i) any change in the constitution of the Bank or of the Agency or;

(ii) any agreement entered into between the Corporation and Agency with or without the consent;

(iii) any forbearance or indulgence shown to the Agency;

(iv) any variation in the terms, covenants or conditions contacted in the said agreement;

(v) any time given to the Agency, OR

(vi) any other conditions or circumstances under which in law, a surety would be discharged.

c) Our liability hereunder shall be joint and several with that of the Agency as if we were the principal debtors in respect of the said sum of Rs. _____
(Rs. _____)

d) We shall not revoke this guarantee during its currency except with the previous consent c the Corporation in writing;

Provided always that notwithstanding herein before contained our liability under this guarantee shall be limited to the sum of Rs. _____ and shall

remain in force until the Corporation certifies that the terms and conditions of the said agreement have been fully and properly carried out by the Agency.

a) Bank hereby agrees and covenants that if at any time default shall be made in payment of any installment or any portion thereof due to the Corporation under the said Agreement or if the Agency fails to perform the said Agreement or if default shall be made in fulfilling any of the terms and conditions contained in the said agreement by the Agency, the Bank shall pay to the Corporation on demand without demur, such sum as may be demanded, not exceeding

Rs. _____ and that the bank shall indemnify and keep the Corporation indemnified against all the losses pursuant to the said agreement and default on the part of the Agency. The decision of the Corporation that the default has been committed by the Agency, shall be conclusive and final and shall be binding on the Bank / Guarantor. Similarly, the decision of the Corporation as regards the amount due and payable by the Agency shall be final and conclusive and binding on the Bank/Guarantor.

f) The Corporation shall have the fullest liberty and the Bank hereby gives its consent without in any way affecting this guarantee to vary or modify the said agreement or any terms thereof or grant any extension of time or any facility or indulgence to the Agency and the Guarantee: shall not be released by reason of any time facility or indulgence being given to the Agency or any forbearance act or omission on the part of the Corporation or by any other matter or thing whatsoever which under the law, relating to sureties would, but for these provisions would have an effect of so releasing the guarantor and the Guarantor hereby waives all other rights which it might otherwise be entitled to enforce.

g) That the absence of informality or powers on the part of the Agency or corporation to enter into or execute the said agreement or any irregularity in the exercise of such powers of invalidity of the said agreement for any reason whatsoever, shall not effect the liability of the Guarantor/Bank and this guarantee shall be binding on the Bank, notwithstanding any such absence, informality or irregularity.

IN WITNESS WHEREOF the common seal of has been hereinto affixed his

_____ day of _____ was
pursuant to the resolution of the Board of Directors of the Company dated the
, _____ day of _____ herein affixed in the
presence of:-

1) _____

2) _____

being respectively the Director and Secretary of the Company, who in token thereof, have hereto set their respective hands in the presence of:-

Financial Bid : Envelope-2

S.No	Description	Quantity(Nos)	Unit	Unit Rate(in Rupees)	Total Amount(in Rupees)
1	Comprehensive Survey and G.I.S. mapping of all Civic Services developing and rationalization of existing door numbering system for all houses in the City of Vijayawada.	2,00,000	One Property		
2	Comprehensive Survey and G.I.S. mapping of all Civic Services developing and rationalization of existing door numbering system for all houses in the City of Vijayawada	58sqm	One Sq KM		

- Prices shall be quoted inclusive of all taxes.
- For all the products/ software/ services the Warranty period is One year from the date of delivery.
- The unit rate shall cover all the deliverables to VMC as per the RFP document.

