

VIJAYAWADA MUNICIPAL CORPORATION (VMC)

Tender Notice No: RC V1-62156 / 05

Dt: 20.12.2005

TENDER DOCUMENT**REVISED TECHNICAL BID**

- Tender for : Supply the services of
(A) Real time monitoring of vehicle tracking for 3 years using G.P.S and preparation of reports.
(B) Record the attendance of the staff at various location and generation of attendance reports.
- Name and Address :
- E.M.D : For Item 1) Rs. 10,000 /- (Ten thousand).
For Item 2) Rs. 10,000 /- (Ten thousand). Drawn in favour of the Commissioner, Municipal Corporation, Vijayawada.
- Date of issue of revised Tender schedules : 27/02/2006 up to 04/02/2006.
- Last date for submission of Tenders : 17/03/2006 up to 3.00 PM
- Date & time of opening of Tender schedules : 17/03/2006 @ 3.30 PM
- Place of receipt and opening of Tender schedules : Superintending Engineer, VMC
Jawaharlal Nehru Buildings, Vijayawada - I

For item 1: EMD _____ D.D No: _____ of Bank _____
_____, dated: _____

For item 2: EMD _____ D.D No: _____ of Bank _____
_____, dated: _____

Sd. X X X
Chief Engineer
Municipal Corporation
VIJAYAWADA – 520 001.

BID DOCUMENT

ITEM NO: 1

Description of Work:

Fleet Management System for garbage lifting trucks where “Vehicle Tracking System” is heart of the application. All garbage-lifting trucks need to be fitted with equipment provided by the vendor by their cost, operate maintain the equipment for 3 years. The vendor is also responsible for providing the server application to generate all kinds of Management Information System (M.I.S) Reports as per the Vijayawada Municipal Corporation requirements during their Operation & Maintenance period.

SCOPE OF WORK: The scope of work will include but not limited to the following.

1. Providing Garbage lifting trucks with automatic vehicle locator devices with application Software suitable for Vijayawada Municipal Corporation keeping in mind the requirement of modular scalability for further expansion.
2. Bidders are advised to study the existing operation of Garbage lifting trucks and design the application software accordingly.
3. Installation of 50 units of vehicle sub-system, comprising GPS receiver, Mobile data terminal, modem, transmission equipment and accessories.
4. Setting up the control centre at the vehicle depot, Vijayawada Municipal Corporation including all hardware / software as required.
5. Interfacing the GPS data on GIS map of the city of Vijayawada. The Vijayawada Municipal Corporation will provide the required GIS Map other wise the bidder has to acquire GIS maps.
6. Interfacing the software application with the customized GIS data as per requirement.
7. Real time display of vehicle position and development of effective monitoring system.
8. The system should be designed in such a fashion that the following details need to be captured by the unit placed in the vehicle: latitude, longitude, speed, distance traveled and stoppage time.
9. The frequency of tracking should not exceed 30 seconds.

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10. Providing suitable interface for each operator for showing zone-wise live movement of garbage lifting trucks with zoom facility and alternatively for cost effective off line movement of trucks, such case the information / reports can be had at the end of each day.
11. Generation of various MIS reports including exception reports as per the requirement of Municipal Corporation Vijayawada.
12. Development of an effective network to provide 100 % uptime for the entire links. In case one-network control unit fails alternate path shall be created so that the system works without any interruption.
13. Development of suitable interface for GPS with a suitable communication technology like GSM / GPRS.
14. The system shall be designed in a manner that operational data is not lost in case of any failure of equipment or communication network.
15. Train the staff deployed on the garbage lifting trucks, control room and supervisory staff on the administration and usage of installed technology.
16. Train the Technical staff on the operation and maintenance of the proposed system hardware and software.
17. Co-ordination with Vijayawada Municipal Corporation for smooth functioning of the system.
18. Provision of suitable disaster recovery mechanism.
19. Tenderer has to supply all Equipments / devices / Server / Computers and all other related equipment including software by their own cost.
20. Tenderer has to provide all necessary reports at the end of each day and information of each vehicle will have to be stored in system for one month and afterwards, the information is to be loaded in to CD every month. The C.D's each vehicle wise is to be handed over to VMC. All peripherals, stationary required for preparation of reports will have to be supplied by tenderer.
21. The equipment which is to fixed on the vehicle is supposed to be rugged.
22. Operation and maintenance of the total automatic vehicle tracking system for 3 years and no need to transfer the total system.
23. VMC will provide power supply, space for control room and furniture at free of cost.

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24. The voice communication system between vehicle and control room to be provided. The vehicle driver has to call only to control room and control has to call to vehicle depot.

GENERAL:

1. The Commissioner, VMC reserves the right of rejecting / cancelling of any part of or whole tender without assigning any reason.
2. Tenders will be opened at 3.30 PM on .03.06.
3. Successful tender shall execute an agreement with VMC on a non-judicial stamp paper worth of Rs. 100 /- (bond paper should be submitted by the agency) duly accepting the terms and conditions for carrying the work.
4. The tenderer can quote any one or both item in the financial bid.
5. Evaluation will be made based on the lowest cost.
6. Whenever the coverage area, dumping yard places changes, that are to be incorporated in the map.

ALTERNATIVE – II:

The movement of the vehicle is needed to be monitored off line i.e. the total information such as movement, distance covered in each trip, stoppage time, can be dumped to the server and get the reports at the end of each day.

SERVICE DESCRIPTION:

1. 24 hours 365 days system operation.
2. Proactive monitoring, fault detection and management of the AVTS for reduced downtime.
3. Fine tune of GSM / GPRS technology for best response time.
4. Link utilization, Errors Monitoring and reporting.
5. Monitoring of all Network control units at various control rooms and effective routing in case of one NCU fails due to any reason.
6. Threshold violation alerts through mail, mobiles & SMS to the concerned officers.

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7. Threshold violations log reports.
8. The agency should ensure that any change in map / GIS data will not hamper the software functionality.
9. Correlation with AVTS performance for capacity planning and maintaining SLA, AVTS performance reports per installation basis (vehicle wise) application wise and user wise.
10. Company should replace the application and equipment whenever they stop working or start mal-functioning with version / model or application / equipment during the Operation & Maintenance period of 3 years.
11. Company should update the application software with the latest versions as and when available.
12. The equipment should weather, water and vibration proof.

MONITORING:

1. Reporting and reviewing process (content & frequency). The Operation & Maintenance team of the agency will have to be present in the control room of Vijayawada Municipal Corporation round the clock. The performance would be reviewed fortnightly basis.
2. Bidder should set up a Monitoring cell at the vehicle depot and other strategic locations to meet with the complaints and deploy required technicians, service Engineer and keep one supervisor @ control room.
3. The wages for the staff engaged on this project shall be borne by the bidder.
4. The wages for the staff shall be paid as per prevailing labour laws.
5. The room, furniture & electricity provided by the VMC.
6. Required Network & cables shall be laid by the bidder.

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ITEM NO: 2**Description of Work:**

Vijayawada Municipal Corporation intended to introduce to record the attendance of various sections by applying Biometric finger print technology with Biometric Encryption Device with live scanner.

The supplier has to provide 50 Nos. Biometric Encryption device by applying Biometric finger print technology at their own cost, at various locations, including Operation & Maintenance the devices for 3 years. And also the supplier has to train the concerned VMC operating staff for operation of the device and related software and in generating all kinds of attendance records / MIS required as per the requirement during their O & M period of 3 years.

SCOPE OF WORK: The scope of work will include but not limited to the following.

1. Supply and install the Biometric Encryption device (Biometric finger prints device) required for record of attendance and generation of attendance reports / MIIS reports required for VMC by the supplier with their cost and Operation & Maintenance of the devices / Services for 3 years.
2. Bidders are advised to study the existing recording of the attendance at various locations and design the suitable application software accordingly.
3. Supplier has to supply, delivery, install 50 Nos. Biometric finger print technology devices (standalone system) required at various locations and supply the necessary cables, connectors etc.
4. The system should be designed in such a manner that the Standalone system should register the finger print of the employee and capture the finger print everyday for recording attendance. And no external power supply should be needed to operate the field operation.
5. Generation of attendance reports / MIS reports of various Locations / Stations of VMC.
6. The System should be designed in a manner that operational data is not lost in case of any failure of equipment.
7. Training of staff deployed at stations, control room and supervisory staff on the administration and use of proposed technology.

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8. Training of technical staff on the Operation and Maintenance of the proposed system hardware and software.
9. Co-ordination with Vijayawada Municipal Corporation for smooth functioning of the system.
10. Provision of suitable disaster recovery mechanism.
11. In case the fingerprint Standalone system requires any external memory device, it is also to be supplied by the vendor.
12. Further any memory device(s) required for transferring data from the Standalone machines to the Database Server / Application Server is also to be supplied by the Vendor.
13. Tenderer has to supply all Equipments / devices and all other related equipment including software by their own cost.
14. Tenderer has to provide all necessary reports at the end of each month and information of each device will have to be stored in system for one month and afterwards, the information is to be loaded in to CD every month. The C.D's each device is to be handed over to VMC. All peripherals, stationary required for preparation of reports will have to be supplied by tenderer.

GENERAL:

SERVICE DESCRIPTION:

1. 24 hours, 365 days system operation.
2. Proactive monitoring, fault detection and management of the Biometric finger print technology device for reduced down time.
3. Service provider should replace the application and equipment whenever they stop working or start malfunctioning with Version / mode of application / Equipment during the O & M for a period of three years.
4. Tenderer should up-date the application software with the latest version as and when available.
5. Any third party (Software / hardware) components required for the smooth data capturing, transferring it to Database, Retrieval of the Data from the Database etc should be arranged by the bidder.
6. Technical Documentation of the proposed Software / Hardware.

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7. User manuals (both software and hardware copies)
8. Online help for the proposed Software applications.
9. Should be handed over to VMC in consonance with the alternatives stated.

MONITORING:

Supplier should setup a monitoring cell at the control room and other strategic locations to meet with the complaints.

DETAILS REGARDING BIOMETRIC FINGERPRINT CAPTURING AND ATTENDANCE MAINTENANCE – REGARDING.

1. Biometric fingerprint capturing device (live scanner) (standalone system).
2. Application software to integrate into a single server and to generate various reports (Viz., Employee Attendance / Time sheet etc.)
3. Cable and connectors.

SPECIFICATIONS AND ALLIED TECHNICAL DETAILS:

GENERAL:

The organization intended to maintain an employee attendance registers at various locations based on biometric fingerprint technology. The work station should contain following:

- Live finger detector.
- Application Software to integrate into a single server and to generate various reports based on the data collected.
- Device should be capable of registering attendance of Max 150 employees with 2 finger. The registering of attendance should be done 2 times / shifts and two shifts / day.

FINGERPRINT CAPTURING DEVICE, TECHNICAL SPECIFICATION OF THE SCANNER:

- Type : Live finger detector
- Scan window size :
- Resolution :
- Image mode :
- Scanning time : < 0.01 Sec.
- Operating temperature : 0-50⁰C
- Relative Humidity : up to 98 %

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OTHER SPECIFICATIONS:

- The system should be a **standalone system**, it is to be carried for field operations.
- No External Power Supply should be required to operate for field operation.

APPLICATION SOFTWARE SPECIFICATIONS:

1. Tamper free fingerprint quality.
2. The user can easily operate user friendly application software.
3. Biometric password controlled with log report of administrator for change in employee i.e. addition / deletion with authority.

TECHNICAL SUPPORT AND WARRANTY:

- Technical support of all types should be available within 2 hours of logging any complaint. In case of major problem, solution is to be provided within 2 hours of lodging of complaint.

GENERAL:

TERMS AND CONDITIONS:

- 1) Detailed tender document is available in the office of the Superintending Engineer, Municipal Corporation, Vijayawada.
- 2) The validity period of the tender will be 120 days (One Hundred Twenty days) from the date of submission of the tender.
- 3) Right to give preference, accept or reject any or all the tenders without assigning any reason will be the discretion of the Commissioner, VMC.
- 4) The Commissioner, VMC reserves the right of rejecting / cancelling of any part of or whole tender without assigning any reason.
- 5) Tenders will be opened at on .
- 6) Successful tender shall execute an agreement with VMC on a non-judicial stamp paper worth of Rs. 100 /- (bond paper should be submitted by the agency) duly accepting the terms and conditions for carrying the work and get it registered by the Registration Department.
- 7) The tenderer can quote any one or both item in the Financial Bid.
- 8) An amount at 7.5 % of the total cost of the project towards the additional earnest money deposit shall be collected from the successful tenderer from the running bills.

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- 9) Agency should submit two covers i.e. cover 'A' – Technical, cover 'B' – financial in sealed cover - 'C'. Cover names must be mentioned as above.
- 10) After evaluation of technical competency, cover 'B' – financial will be open.
- 11) I.T – 2.24 %, N.A.C – 0.25 %, S.T / VAT will be recovered from the bills as per the Govt. orders.
- 12) Bank guarantee equivalent to 20 % of the project cost should be submitted along with the agreement kept valid for
 - ✓ Item No 1: 39 Months.
 - ✓ Item No 2: 39 Months.
- 13) The VMC has right to call for negotiation from the lowest 3 bidders and for live demonstration.
- 14) The tenderer may quote all items or any one item mentioned above.

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SCHEDULE – A
Technical Qualifications

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Item - I

QUALIFICATIONS: -

1. The Company must be well established and has been providing GIS / GPS solution for at least 2 years.
2. The Company should have sufficient technical skilled manpower having requisite experience to develop and implement customized I.T applications integrating GPS / GIS / Web Technologies.
3. The Company should have successfully completed at least one similar project of value worth Rs. 25 Lacs during the last three years nationally / globally for each GIS devise works.
4. The Company should have proven experience in the area of development of customized applications integrating GPS / GIS / Web Technologies.
5. Company should submit their I.T Returns of the last 2 years.

The agency should submit the document in proof of their above qualification and experience failing which their tenderer will be summarily rejected.

PAYMENT TERMS:

- 1) Payment will be made on monthly duly deducting towards failures.
- 2) Incase of failure of system partially / any unit fixed on the vehicles, it should be replaced in the 6 hours time.
Failure will be calculated and if these are more that – 2 occations, the deductions from the bill will be done as follows.
 - a) 2 – 5 Nos. : 2 %. On monthly bill
 - b) 5 – 9 Nos. : 10 %. On monthly bill
 - c) 10 – 14 Nos.: 30 %. On monthly bill
 - d) 15 – 20 Nos.: 50 %. On monthly bill
 If the failures exceed 25 Nos. per month, no payment will be made for that month.
- 3) License fee, approvals, leases and other taxes, fees etc required for this system implementation and operation has to be obtained and necessary charges to paid by the Agency only.
- 4) Prices are to be offered for providing online movement of the trucks as well as offline movement of the trucks, for both way communications with drivers.

Item - II

QUALIFICATIONS: -

1. The Company must be well established and has been providing Biometric Encryption for at least 2 years.
2. The Company should have sufficient technical skilled manpower having requisite experience to develop and implement customized I.T applications integrating Biometric Encryption.

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3. The Company should have successfully completed at least one similar project of value worth Rs. 25 Lacs during the last three years nationally / globally for each GIS and for Biometric Encryption devise works.
4. The Company should have proven experience in the area of development of customized applications integrating Biometric Encryption
5. Company should submit their I.T Returns of the last 2 years.

The agency should submit the document in proof of their above qualification and experience failing which their tenderer will be summarily rejected.

PAYMENT TERMS:

The payment will be made on submission of monthly bills.

Failure will be calculated and if these are more than – 2 occasions, the deductions from the bill will be done as follows.

Failure will be calculated and if these are more than – 2 occasions, the deductions from the bill will be done as follows.

- a) 2 – 5 Nos. : 2 %. On monthly bill c) 10 – 14 Nos.: 30 %. On monthly bill
b) 5 – 9 Nos. : 10 %. On monthly bill d) 15 – 20 Nos.: 50 %. On monthly bill

If the failures exceed 25 Nos. per month, no payment will be made for that month.

Note: Cover-A should contain the technical bidding and Cover-B should contain financial bidding. Both cover-A and cover-B should be named as mentioned above and should be submitted in a sealed cover-C.

TENDERER

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