

# NEW TOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority Under Government of West Bengal) 3, Major Arterial Road, New Town, Kolkata - 700 156

# Memo No: 60/NKDA/Admn-172/2011

# Dated: 06/01/2014

# Invitation of bids for supply, installation, execution and support for "e-Solid Waste Disposal Monitoring System" for New Town Kolkata E.O.I No. 10/NKDA/ADMN OF 2013-14(2<sup>nd</sup> Call)

Bids are invited by the Chief Executive Officer, New Town Kolkata Development Authority from experienced resourceful agencies having proven experience in successful installation and implementation of at least two similar nature of in last three calendar years where numbers of vehicles simultaneously tracked were more than 100 in each case in the "Vehicle Tracking", "RFID Technology", "Hand Held Terminal" system for supply, installation, execution and support for "e-Solid Waste Disposal Monitoring System" in the of New Town Kolkata.

#### About NKDA

Govt. of West Bengal constituted the New Town Kolkata Development Authority; a statutory organization formed under the West Bengal Act XXX of 2007 i.e. The New Town Kolkata Development Authority Act 2007 duly passed by the West Bengal legislature and assented by Honourable President of India.

#### 2. About the proposed work:

NKDA wants to implement "e-Solid Waste Disposal Monitoring System" to monitor solid waste removal from its jurisdiction and to ensure optimal utilization of vehicles deployed. Municipal Solid Waste Disposal Monitoring System is identified as a tool to achieve the above mentioned objectives. For this purpose NKDA plans to establish an electronic Municipal Solid Waste Disposal Monitoring system i.e. the vehicles used for garbage collection trucks/tipper trucks loaders etc., ensuring following advantages:-

- Pictures showing garbage has been disposed.
- RF tag & unique RFID to vehicle ID. The tag can be stuck on, printed on or incorporated into a product or vehicle, providing a unique identifier for each vehicle as well as Waste Bins.
- RFID technology whether the vehicles have collected the garbage.

# **3.** Qualifications of the bidder Technical Criteria:

 The bidder should have experience on "Vehicle Tracking", "RFID Technology", "Hand Held Terminal" right from identifying the exact user requirements to successful implementation of the system including identification of optimum specification of computer hardware (server, network etc.) and other devices/ gadgets, development of appropriate software <u>for at least two</u> <u>clients in last three calendar years where numbers of vehicles simultaneously tracked were</u> <u>more than 100 in each case.</u>

- At least one out these two clients would preferably be a Government/Government Undertaking/Semi Government/Public Sector Undertaking client. The bidder should have sufficient experience in development of application software using electronic devices/gadgets as well as providing support & maintenance to such applications, linking to external software applications, maintenance of archival backup of data for years as well as reporting from these data as and when required by retrieving them from archive etc. The bidder should be able to provide sufficient human resource proficient in maintaining the electronic devices/gadgets and the application software to be developed as well as experienced in web technologies and database. Self attested copies of the Contracts/Work Orders should be attached, failing which the experience may not be considered as valid.
- The bidder shall preferably have an established office in Kolkata. Bidders should have a registered office at Kolkata. If not, than a self declaration is required to be submitted in Non-Judicial stamp paper stating the bidder will open a setup in Kolkata within 03 months after acceptance of work order. Failure of the same will attract a penalty of 1% per week of the tendered value subjected to maximum of 10%.
- The bidder should possess a valid ISO 9001:2008 certification, a copy of which should be provided as a part of the technical bid. Bidder having SEI CMMI level 3 or higher or any other relevant certification would be awarded additional marks during evaluation of technical bid.
- The bidder should provide end to end solution which includes hardware, software and connectivity.

#### **Financial Criteria**

• The bidder shall have a Total Annual Turnover of at least **Rs.2 Crores** each during last 3 financial years out of which an Annual Turnover of a minimum of **Rs.50 Lakhs** should be from providing such "Vehicle Tracking" solution or providing support & maintenance to such system. Bidder shall have to submit the audited Balance Sheet and Profit & Loss statements and certification from Statutory Auditor for the last 3 financial years 2010-2011, 2011-2012 and 2012-2013. The revenues earned from areas specified at the beginning of this clause shall be specifically marked for determining the qualifying annual turnover threshold. Regarding annual turnover related to vehicles tracking of Rs.50,00,000/- the Bidders should submit the related work orders and completion certificate, either in Company's letter head, duly certified by CEO/MD or by a Chartered Accountant.

#### 4. Bidding Process and Submissions

a) The bid should be submitted as per two-part bid system; i.e 'Technical Bid' and 'Financial Bid'. The 03(three) envelopes shall be clearly marked "EMD", "Technical Bid" and "Financial Bid" and contain the respective proposals. The 03(three) envelopes must be enclosed in a single covering sealed envelope, which shall be clearly marked as "Proposals for providing solution for e-Solid Waste Disposal Monitoring System with Vehicle Tracking System in New Town Kolkata and also Providing Post Implementation Support And Maintenance Services to the system for a period of 1 year"; this main envelope shall be submitted at the address and within the stipulated date. The details of the bidder, including full name, office address, name

of authorized person and his/her contact details (telephone numbers of both office and personal cell phone and email address) shall also be written on each envelope.

- b) **Document to be submitted:** bid should contain all documents required as proof of fulfilment of pre-qualifying criteria. Such documents will include but not limited to following
  - i) EMD in the form of DD for Rs 50,000 (Rupees fifty thousand only) in favour of "New Town Kolkata Development Authority" payable at Kolkata.
  - ii) Certificate of Registration under Indian Companies Act.
  - iii) Proof of being manufacturer or solution provider of Vehicle Monitoring, Tracking System, RFID Technology, Hand Held Terminal.
  - iv) Proof of having in-house software development and maintenance facility.
  - v) Proof of turnover as per pre-qualification criteria.
  - vi) Copy of ISO certificate as pre- qualification.
  - vii) Copy of CMMI Certificate if applicable.
  - viii) Company Profile.
  - ix) Copy of power of attorney for the person signing the bid documents
  - x) Copy of Trade Licence, PAN, VAT and Service tax Registration
- c) **Technical Bid** should comprise of following documents.
  - i) Understanding of requirements for the e-Municipal Solid Waste Disposal Monitoring System
  - ii) Technology Proposal Technical description of the system offered

The solution includes two parts.

#### Part I

NKDA has deployed auto tippers to collect the garbage from the housing complexes and bring it to the compactor. All such auto tippers deployed in the colonies which pick up garbage must keep moving in their specified areas and should be fitted with GPS units. An approach paper must be enclosed indicating how the deployed solution will work.

- i) Specification of hardware proposed along with catalogue(s).
- ii) Implementation schedule
- iii) Detailed MIS reports will be required to help NKDA staff at various levels on monitoring the garbage disposal.
- iv) Snaps for Housing Complex Bins.

#### Part 2

All the compactor and trucks start from garage located at New Town will go to designated disposal ground. When they leave the garage, the details of compactor /trucks/Auto Tripper and drivers moving out of the workshop are automatically captured using RF Tag/Other suitable device. On reaching community bins the loader loads the garabage which then move to the

sanitary Landfill via Weigh Bridge. Movement of each vehicle will be monitored using VTS on vehicles, RF tags at Dustbin/Open site reading the location and vehicle tags. After clearance of Bins, the supervisor/Driver takes the image of the Dustbin and uploads on the server for online monitoring and audit by NKDA persons. The hardware supplied should be as per technical specifications in this tender.

- The bidder must submit the details of hardware required for such solutions.
- The bidder must submit the details of application software to be developed for this solution.
- The bidder must enclose the implementation approach.
- d) **Financial Bid** should contain the 'price bid' as per the price bid format attached herewith in the tender document. The validity of the bid should be minimum 180 days from the due date mentioned on bid document or any extension thereof or date of negotiation, whichever is later.

#### e) Signing of tender documents

Copy of board resolution/Power of Attorney/ Authorization letter/any other supporting document indicating that the person signing the bid has the required authority to sign on behalf of the bidder.

#### 5. Other Terms & conditions:

- a) Late bids not accepted. NKDA shall not entertain any reason for delay in submitting the bids.
- b) The bids will be opened in the order of Technical Bid & Financial bid.
- c) The bids not meeting the Technical specifications may be rejected immediately.
- d) The bids not submitted in the manner explained in the tender document are liable for rejection. Bids submitted without EMD will be rejected outrightly.
- e) NKDA reserves the right to accept/reject any or all bids submitted.
- f) The decision regarding finally selected bidder will be communicated to the respective bidder.
- g) The EMD for the unsuccessful bidders' shall be returned immediately after completion of the tender process the opening of the tender. No interest shall be paid on EMD. EMD for successful bidder will be kept as the Security Deposit (SD).
- h) The successful bidder will have to deploy a highly qualified & experienced expert (Project Incharge) exclusively for this project.

#### 6. Scope and Project Tasks (Technical & Functional)

- 1. End-to-End Solution to implement and to provide Support Services & Maintenance.
- 2. Implementation of "Vehicle Tracking System" with the following requirements:
  - a) Real time tracking of around 8 vehicles simultaneously every day at auto workshop community bin/ Open sites and designated disposal ground.
  - b) Scalability (data refreshing) within every 1 minute.

- c) The Graphical re-presentation of vehicles movements are to be mapped in Google image. The VTS should have to be integrated with 'GIS' application in open PRP mode, for this township.
- d) Capture of GPS coordinates of trucks & garbage dumping sites.
- e) Capture of images of Bins before and after it is cleared.
- f) Audit using captured image above.
- g) Providing a mobile device to leader driver or any person specified by NKDA which has facility of RF reader, camera & connectivity.
- h) Standard features of GPS Vehicle Tracking Software are supposed to be there like 'Geofencing Setup & Control', Playback', 'Idle Time', 'Distance Covered' etc.
- i) Reports on vehicle movements.
- j) Able to send e-mail/SMS alerts to authorized personnel. SMS gateway will provided by the NKDA.
- k) All time availability of last 90 days' History data,
- I) Incremental backup of data for future reference,
- m) Only Server space will be provided by NKDA. Software and Database license will be provided by selected agency, if required.
- n) Weigh-bridge integration will be required without depending on PC. Data automatically transmit to web with registration no of vehicle.
- o) The same application should be able to track other vehicle of NKDA.
- p) Providing GSM/GPRS/internet connectivity required for the system.
- q) Installation and testing of required hardware on vehicles to be monitored
- r) Designing and generating reports as per requirement of NKDA.
- s) Changes in Software as and when required by NKDA will be incorporated by selected agency within the time frame; no additional charges will be paid by NKDA.
- t) Maintenance cost of all equipment should be borne by the bidder.
- u) Providing training to the staff for using hand held device & walkthrough of supervisory staff for efficient utilization of the system for monitoring.

#### **Documentation:**

The selected Agency shall develop exhaustive documentation (viz. SRS, Users' Manual, Technical Manual, etc.) for the system to be implemented.

#### Source Code:

The source code will be proprietary to NKDA. However, the source code and the developed application will be under the custody and maintenance of the selected Agency till the time they are associated with NKDA as per contract. The selected Agency shall handover all the source codes that it had developed or managed to NKDA before the termination of the contract.

# 7. Security Deposit:

EMD will be kept as a Security Deposit for the entire period contact. After successful completion of the contract period SD will be refunded to Agency.

### 8. Payment Terms:

- 60% payment after successful installation and live introduction of the system.
- 30% payment after satisfactory completion of next three months.
- 10% of the total payment will be retained as performance guarantee and will be released after completion of the 12 months of warranty support on satisfactory performance of the installed system.

# 9. Method of selection

- a) The selection will be made through a quality and cost based method with 70% score for technical merit and 30% score for financial offer.
- b) The offers will be opened in presence of representatives of the bidders and the technical proposal will be opened at the same time. The sealed financial bids will be kept inside a closed cover for future processing.
- c) After evaluation and scoring on the technical proposal, the financial bids will be opened in presence of representatives of the bidders.
- d) Final selection will be made on the basis of composite score of above.

# 10. Proposal format and scoring criteria

Process of evaluation of the proposal will be carried out in three stages as indicated in this document. A single step two-envelop bidding procedure will be used for the evaluation. Under this process the technical proposal will be opened and evaluated prior to opening and evaluating financial proposal. The proposals will be examined and discussed as required with the bidder. The evaluation of the proposals will follow the steps outlined in this section.

- Stage I Examination of Shortlisted Technical Proposals (Weightage 55%)
- Stage II Presentation of Real Time System with Proposed Solution.(Weightage 15%)

Stage III - Examination of Financial Proposal (Weightage 30%)

The selection will be made through Quality cum Cost based method. Cut off marks for technical bid is 30 out of 55. The bidder(s) will be qualified in technical evaluation will be asked to come up with the presentations.

SL No	Evaluation parameter	Max. Marks*
1.	Presentation of Real Time System with Proposed Solution	15
2.	Company Quality Certifications: 1. ISO Certification (5 Marks) 2. CMMi Level-3 or higher Certification (5 Marks)	10

3.	Demonstration of Bidder's own developed Software for Tracking System and RelatedApplications:1. VTS for Garbage Management with other municipal corporation 5 Marks2. Above Software Successfully in use for 2+ years5 MarksAn affidavit to this effect to be enclosed with the bid as documentary evidence.	10	
4.	Experience in successfully executing Garbage Management projects of Municipal Department of any State Government which have run for minimum one year will be considered.1.Less than 100 vehicles5 Marks2.Less than equals to 250 Vehicles10 Marks3.More than 250 Vehicles15 Marks	15	
5.	Average Annual turnover of Lead bidder for the last 3 years Rs. 2 to 10 Crore =5 Above Rs.10 Crore =10	10	
6.	Number of Software & I.T. Professionals in the company:• Company employing 61 to 100 Software Professionals= 5• Company employing more than 100 Software Professionals = 10• Company employing up to 60 Software Professionals= 0To be supported by PF & ESI returns of the company		
	Total	70	

# **11. Technical Specifications**

#### a) Hardware Specification.

- i. Handheld mobile device with GPS, GPRS, Camera, Bluetooth, and RFID capabilities.
  - o Wireless Bluetooth interface.
  - o In-built GPS Modem.
  - o In-built GPRS Modem.
  - Integrated 2 Mega Pixel Camera or more.
  - o Rechargeable battery.
  - o Encrypted GPRS data transfer

#### i) Tracking Device

- o Easy to install and rugged
- o GPS accuracy less than 5 meter
- o LED status (Power, GPS, GSM/GPRS)
- o Device sends alarm when:
  - External power being cut off.
  - Panic Button (SOS) pressed.
  - Tracking and immobilize vehicle using web map or mobile phone.
- SIM board to GPS device: SIM should only be working with GPS device it is programmed with.

- Built in battery for power outage disconnection.
- Tracking Device can work by the power supply on the Vehicle.
- Built in memory for network outage, for storing at least 5,000 records.
- Backup battery.
  - Battery backup time: 6 hrs with 1 minute tracking interval 3 hrs with 10 second tracking interval

Cold/warm start	<42s	
Hot start aided start reacquisition	<1s	
	<1s	Support GSM/GPRS 900/1800/1900 MHZ
	0	Support send and receive sms message
Radio system	0	during GPRS inline session
	0	Two way online TCP-IP connection to send and receive reliable data
TCD supported	0	Support two way online TCP-IP connection support to send and receive reliable data
TCP supported	0	ASCII based text protocol, easy to understand and trouble shooting
	0	Send by fixed(clock timer), dynamic time(periodic) interval
Flexible GPS tracking	0	Send by distance travels
rienible or 5 tracking	0	Send by user polling
	0	Send by checking IGNITION input in periodic time interval.
	0	Built in large flash memory to store data when out of GPRS radio coverage, data log more than 5000 points
GPS track recording and resending	0	Automatically resend Non-GPRS coverage data when device goes into GPRS coverage.
	0	No data lost due to radio coverage problem
	0	Track remote download supported
	0	No data lost due to power failure
	0	Sends GSM radio signal level (signal strength) in every location packet to server
Radio signal level, network detection	0	Sends GSM network provider code in every location packet
	0	Sends home/roaming network info in every location packet

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	0	Device offer many features to support air time control:		
	0	User can define upload data size (UDS device now store data in internal flash soon as data size reach UDS, it makes GPF connection and send data to server.		
Air time control	0	Support polling only mode without auto send.		
	0	Adjustable parameters in protocol to sen only required packet. (Disable Periodi position data, Distance based data)		
	0	Sends location record by checking IGNITION input in periodic time interval		
Dower course voltage level detection	0	Sends internal battery voltage to server		
Power source voltage level detection	0	Sends external battery voltage to server		
	0	Support GPS based distance meter, keep the reading value in flash memory		
Internal GPS distance meter	0	Sends Delta distance (distance between two location records) to server		
	0	Meter reading in every location packet		
	0	Reset meter reading from remote SMS/server.		
	Device sends alarm packets to server when:			
	0	Panic(SOS) button is pressed		
	0	External power cut off		
	Ŭ	External power cut off		
	0	GPS Antenna cut off		
Alarm Functions				
Alarm Functions	0	GPS Antenna cut off Internal/External Battery voltage below the		
Alarm Functions	0	GPS Antenna cut off Internal/External Battery voltage below the threshold value		
Alarm Functions	0 0 0	GPS Antenna cut off Internal/External Battery voltage below the threshold value Vehicle move/stop Device goes out of user defined geo-fence		
Alarm Functions Battery Operation Support	0 0 0	GPS Antenna cut off Internal/External Battery voltage below the threshold value Vehicle move/stop Device goes out of user defined geo-fence region		
	0 0 0 0	GPS Antenna cut off Internal/External Battery voltage below the threshold value Vehicle move/stop Device goes out of user defined geo-fence region Tampering of device Support auto battery charge circuit from		
	0 0 0 0	GPS Antenna cut off Internal/External Battery voltage below the threshold value Vehicle move/stop Device goes out of user defined geo-fence region Tampering of device Support auto battery charge circuit from external power source		
		GPS Antenna cut off Internal/External Battery voltage below the threshold value Vehicle move/stop Device goes out of user defined geo-fence region Tampering of device Support auto battery charge circuit from external power source Over charge protection		

#### ii) RFID PASSIVE TAG

RFID Passive Tags are primarily intended for secure identification of vehicles. These should be optimized for mounting on vehicles, Bins, with a world-class range performance.

The tag should provide:

- 1) High Performance: Antenna design and label construction should be ideal fit for Windshield labels, delivering long read distances of more than 5 metres, and all possible speeds.
- 2) UID and Pass-code protected: The non-changeable read only Tag ID TID should be factory programmed and should include a unique identification number (UID). A pass code protected user memory should be available to store additional security, registration and vehicle information and Bins information.

#### Specifications

Label size as may be read by the mobile device				
Quality Assurance				
Inlays and labels should be 100% tested				
Reliability through UV protection				
Label will be used for				
Vehicle identification & Bin identification				
Major Features Required				
Read range: 5 meters or more.				
Flat label optimization for mounting onto vehicle windshields				
In case of permanent Mounting it should break on removal				
User defined memory: up to 512 bit				
Passive tag: No battery				
Technical Features				
Data Retention 08 years				
Security Features password protection				
Unique Serial Number Optionally printed (barcode) on front side of the label				
Operating Temperature upto 70 C				
Humidity 95%( non condensing)				

RFID tags must be operational in extreme conditions resistant to environmental hazards

#### iii) Web Application:

- 1) Web based vehicle tracking Application.
- 2) Plotting of all important points i.e. Collection Points, Route points, Housing Complexes, Bins, open Sites, Bulk Points, Dump Sites and Re-Cycling Plants(if required in future).
- 3) The application will be able to provide the data i.e. Served.
- 4) The software should be designed in such a way that zone/area wise status of the solid waste collection can be tracked.
- 5) Various alerts such as harsh acceleration, harsh de-acceleration, panic button pressed, GPS Device Tampering, Towing etc. should be provided.
- 6) The dynamic route history should be provided along with various events i.e. over speed, average speed, distance travelled and stoppages taken by the vehicle.
- 7) Various general reports i.e. Day wise, Vehicle Summary, Stoppage, Distance Travelled, Alerts and Violations, Vehicle Idle. Trip report etc. should be provided.
- 8) MIS reports should also be generated on daily, weekly, and monthly basis to enable the authorities to take appropriate decision.
- 9) Housing Complexes/Bins wise control panel to view and approve the upload image for each point of interest.
- 10) Color of Housing Complexes locations/Bins will automatically change in following manner:
  - a) Mid night.
  - b) After taking the snap and upload to web.
  - c) After approval of each image.
- 11) Other customized reports as per the requirement of this Authority.
- 12) Website to have all necessary map viewing facility such as zoom, pan, search a location, jump to any ward or zone etc.
- 13) NKDA shall be able to add own landmarks through the web application.
- 14) Reports may be obtained considering NKDA added specifications.
- 15) All the vehicles to be tracked on line and the location shall be possible on the tabular as well as map based view.

- 16) Real time display on Map, the status and location of garbage bins, Housing Complexes, open site and other garbage locations.
- 17) NKDA can add the trip details and the report shall be possible to be captured through same.
- 18) NKDA should be able to get the distance travelled of the each vehicle in a day.
- 19) Consolidated dash board shall be provided to check the vehicle activity.
- 20) There should be a facility for making of vehicles routes (print-to-point, point-to-multipoint, circular etc) or the vehicle trips.
- 21) The facility for addition/deletion of vehicle should be provided.
- 22) Complete with maps and facility for historical data available.
- 23) Remote Vehicle GPS unit configuration utility for changing frequency, deactivation of unit, etc.
- 24) Web based access and control of entire functionality.
- 25) To maintain the integrity of the system encrypted messages and constant revalidation of the firmware by the system to prevent loss of protocols and security of data.
- 26) Ability to receive E-mail and Mobile alerts in case of a deviation of any planned Activity.
- 27) The MIS reports, which are possible, are Vehicle History including the detailed start & end log time on map on real time basis and historical data on map, route travelled, and violation on map on real time basis and historical data on map, Stop hours, detailed work hour summary.
- 28) Ability to integrate external software like Routing/Navigation etc at a minimal cost and ability.
- 29) The software automatically polls and informs which unit has not communicated in excess of stipulated time.
- 30) Being able to see/alarm when GPS unit battery will dry out.
- 31) MIS report on collection of Waste per vehicles and total Daily/ Monthly/ Quarterly/ Yearly basis. weigh bridge.

#### 12. Important timeline

Pre bid meeting	: 16 <sup>th</sup> Jan 2	014 at 01:00 PM
Last date of submission	: 22 <sup>th</sup> Jan 2	014 upto 02:00 PM
Opening of technical proposals	: 22 <sup>th</sup> Jan 2	014 at 03:00 PM
Presentation by bidders on technical proposal	: Will be in	timated within 24 <sup>st</sup> Jan 2014.

#### 13. Miscellaneous provisions

- **a.** Decision of NKDA will be final in all matters
- b. The entire process will be governed by the rules of NKDA and Government of West Bengal

c. The selected bidder will have to enter into an agreement before starting the actual implementation.

d. Successful bidder have a execute formal agreement before undertaking the work.

#### 14. Maintenance:

Maintenance period in the hardware and software is for 01(one) year after satisfactory acceptance of the system by this Authority. Selected bidder will have to monitor the whole application for 03(Month) on regular basis. During this period if any problem will occurred than selected bidder will have solve the problem within the stipulated time. After that period, if any problem will occur than engineer will have to attend the call within same day or next business day. Alternation in any, necessary deduction will made as from the bill and SD as per decision of this Authority.

#### 15. Software development

If any software is required during the maintenance period for the maintenance and support purpose, the software license procurement/renewal cost must be borne by the selected bidder.

# Chief Executive Officer New Town Kolkata Development Authority

#### Memo No: 60/1(3)/NKDA/Admn-172/2011

Dated: 06/01/2014

Copy forwarded for information and necessary action to:

- 1. The Finance Officer, NKDA.
- 2. Executive Engineer-I, NKDA.
- 3. P.A. to Chairman, NKDA.

Administrative Officer New Town Kolkata Development Authority

# Format for Financial Bid:

The financial proposal will be submitted in the following format printed on official letter head of the bidder and signed sealed by a competent official of the bidder

Date

To The Chief Executive Officer New Town Kolkata Development Authority

Sub : <u>Financial Bid for providing solution for e-Solid Waste Disposal Monitoring System</u> <u>in New Town Kolkata and also Providing Post Implementation Support And</u> <u>Maintenance Services to the system for a period of 1 year</u>

Sir,

We hereby propose a total cost of Rs.<*Rupees in Figure and whole number>* (Rupees in words )only inclusive of all costs, taxes and levies for e-Waste Management with Vehicle Tracking System in New Town Kolkata and also Providing Post Implementation Support And Maintenance Services to the system for a period of 1 year.

This amount is valid for the whole period of the contract for the work. Details of cost brake-up as follows:

SI No	Name of Electronic Device/Gadget and Application	Specification	Unit Rate* (in Rs.)	Quantity Required	Total Cost* (in Rs.)
01	VTS Device			11	
02	RFID Passive Tag			100	
03	Mobile Hand Terminal			8	
04	Web Application of Monitoring System			1	
05	Weigh Bridge Integration (without depending on PC)			1	
06	Others (Please specify)				

\*\* N. B: Bidder will quote rate for a single make for each item.

Yours faithfully

Signature Name: Designation: Office Address:

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