

**Transportation Engineering Laboratory
Department of Civil Engineering
IIT Delhi, Hauz Khas, New Delhi - 110 016**

14th September 2015

Subject: NIQ for Traffic Video Data acquisition system

Invitation for Tender Offers

Transportation Engineering Laboratory, Department of Civil Engineering, Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for supply, installation of **Traffic Video Data acquisition system** as per terms & conditions specified in the tender document.

Sealed quotations are invited for the purchase of the following item by Transportation Engineering Laboratory, Department of Civil Engineering, IIT Delhi confirming to the technical specifications given below:

Item: Traffic Video Data acquisition system

Quantity: One Unit

Important Technical Specifications:

- **Vehicle Classifications and Data Reporting Statement:** The video collection device must be able to accurately collect vehicle classification in three categories: passenger cars, small trucks, heavy commercial trucks.

Data Procurement Requirements:

- **Turning Movements detection:** The device must be able to capture video of turning movement's at large urban intersections (Minimum 20,000 AADT on each leg) at 95% or greater accuracy levels.
- **Average Daily Traffic (ADT) count capability:** The device must be able to capture video of traffic on consistently high volume roadways (at least 50,000 AADT), determining volume and classification of vehicles in each direction.
- **Installation location:** The video device must be able to be installed using existing objects at the intersection such as poles, signs, or other objects at the intersection.
- **Installation security:** The video device must be able to be installed securely, minimizing the potential for theft.
- **Bicycle / Pedestrian detection:** The video device must have the capability of capturing video of bicycle and pedestrian movement and producing counts.
- **Non-intrusive:** The video device must have the capacity to be installed off the roadway surface, so as to not create interference with the motoring public.
- **Capacity:** The video device must have a sufficient power source and memory capacity to operate continuously for a minimum of 24 hours.

- **Portable size:** The video device must be portable in size to be transported in a small truck or van.
- **Weatherproof enclosure:** The video device must be capable of operation in all weather conditions (rain, snow, heat, wind).
- **Video processing:** The web based system must allow for uploading of the recorded video from an internet connected computer. The system must be able to analyze and extract individual turning movement, volume, and vehicle classification data from the stored video for easy interaction and retrieval of information. The system must be able to analyze and extract volume and vehicle classification from each direction for average daily traffic counts from the stored video for easy interaction and retrieval of information.
- **Reporting:** The web based analysis must allow for the generation of standard turning movement reports and average daily traffic reports with vehicle classification including modifying the selection criteria of the start/stop time and time interval used.
- **Exporting Data:** The web based analysis must allow for the exporting of the raw detail turning movement count data and average daily traffic count data in a format such as EXCEL or CSV file.
- **Data Reporting:** The processing of both the turning movement data and the average daily traffic data must have a turnaround time of 5 working days or less.
- **Video storage:** The video of the turning movement studies and the average daily traffic counts must be stored and organized at a secure, vendor supported, web location, so the video can be viewed online by an unlimited amount of users.

Terms and Conditions:

- Sealed **technical** and **commercial** quotations should be submitted in separate envelopes; **else they would be rejected,**
- Quotations should be directly from the original developer or authorized sales agent,
- The cost should include delivery (CIF Delhi), installation and training at IIT Delhi,
- If the items are proprietary product of the company, a proprietary certificate stating “certified that -----is proprietary item of M/s -----and no other manufacture make this item”.
- If the bidder is not a manufacturer, authorization from the manufacturer needs to be enclosed,
- The supplier must submit proof (including address, telephone number and email ID) of prior installations at other central govt. funded institutions and/or R&D labs. The bidder should have supplied/installed same items in at least three or more such organizations ,
- The validity of the offer should be for 4 months,
- Delivery period should be mentioned,
- Details on installation, commissioning and training must be specified,
- Preferred method of payment will be through Letter of Credit (LC) or RTGS or Electronic Fund Transfer (EFT) / Wire Transfer (WT) ,
- The details of recipient of payment LC / EFT/WT should be given clearly,
- **Discount/Rebates:** A special discount/rebate wherever admissible keeping in view that supplies are being made for educational and research purpose in respect of public institution of national importance may please be indicated.
- **Rejection:**
 - (a) Quotations not conforming to the set procedure as above would be rejected.
 - (b) Incomplete and conditional tenders would be summarily rejected.

(c) IIT Delhi reserves the rights of acceptance or rejection of any or all quotations without assigning any reason thereof.

- The last date for receipt of the quotations is **1st October 2015, 4 pm**

Sealed quotations shall be submitted to:

Dr. K. Ramachandra Rao
Associate Professor and Officer In-charge
Transportation Engineering Laboratory
Department of Civil Engineering
Indian Institute of Technology Delhi
Hauz Khas, New Delhi – 110016, India