

**OFFICE OF THE DIVISIONAL MANAGER CTU & DIRECTOR TRANSPORT,
UNION TERRITORY; CHANDIGARH,
e—TENDER NOTICE**

E-tenders (Online tenders) are invited for the :-

- i) Supply and installation of Automatic Vehicle Location System (AVLS) of AIS: 140 standard along with Panic Button in 173 Buses .
- ii) Design, Development, Implementation , Operation & Maintenance of AVLS system for 213 buses (173 buses+ 40 buses)
- iii) Supply and installation of installation of 06 New PIS boards (50") and Design, Development, Implementation , Operation & Maintenance of 08 PIS boards 50" (06 new+ 2 old).
- iv) Supply and Installation of Ultrasonic fuel sensor devices in 213 buses
- v) Design, Development, Implementation , Operation & Maintenance of fuel monitoring system for 213 buses.

on monthly rent basis in two bid system i.e. **technical bid and financial bid which are to be submitted separately online only**. The offer shall be valid for three months (90 days) from the date of opening of technical bid. The prospective bidders can also visit office of the CTU during office hours on any working day by contacting General Manager, CTU-I, Plot No. 701, Industrial Area, Phase I, Chandigarh for any kind of information with regard to the job/tender. The detailed terms & conditions of the tender documents may be downloaded from the website of Chandigarh Administration i.e. <http://etenders.chd.nic.in>.

1. Tenderers are required to quote their rates for :-

- i) Supply and installation of Automatic Vehicle Location System (AVLS) of AIS: 140 standard along with Panic Button in 173 Buses .
- ii) Design, Development, Implementation , Operation & Maintenance of AVLS system for 213 buses (173 buses+ 40 buses)
- iii) Supply and installation of 06 New PIS boards (50") , Design, Development, Implementation operation & maintenance of 08 PIS boards 50" (06 new+ 2 old).
- iv) Supply and Installation of Ultrasonic fuel sensor devices in 213 buses
- v) Design, Development, Implementation , Operation & Maintenance of fuel monitoring system for 213 buses.

and software engineer for three months for customization of software (as per Financial Bid (BOQ) and other allied Equipments required for the Project excluding taxes. The taxes shall be as applicable from time to time. It is clarified that actual payment shall be adjusted as per the actual number of buses on pro-rata basis.

1. EMD of Rs. 2,00,000/- (Rupees Two Lakh only) must be submitted in physical form in the shape of Bank Draft drawn on any scheduled bank at Chandigarh **in favour of the Director Transport, Plot No. 701, Industrial Area, Phase-I, Union Territory, Chandigarh** in the office of Divisional Manager, CTU & Director Transport, U.T., Chandigarh, Plot No. 701, Industrial Area, Phase I, Chandigarh on or before **03.07.2020 up to 14.00 hours**. Tenders without submission of Earnest Money Deposit (EMD) through bank draft in physical form within the stipulated date and time shall not be considered and shall be rejected out rightly.
2. The detailed bid documents can be downloaded from the website of Chandigarh i.e.

<http://etenders.chd.nic.in/nicgep/app>. Tender documents completed in all respect duly signed must be uploaded on the above said website on or before **03.07.2020 upto 14.00 hours**. The Technical bids will be opened on **03.07.2020 at 15.00 hours**. The date for Financial Bids will be intimated later. No tender shall be accepted in physical form under any circumstances.

3. The pre bid meeting with the prospective bidders will be held on **16.06.2020**
at 11.00 A.M. in the office of Director Transport, Plot No.701, Industrial Area, Phase-I, U.T., Chandigarh.
4. The Divisional Manager, CTU & Director Transport, U.T., Chandigarh shall have every right to (a) cancel / withdraw / amend the advertisement or extend the due date at his sole discretion or (b) accept or reject any tender without assigning any reason.
5. The tenderers can approach the Nodal Officer, e-tendering, CTU Chandigarh on any working day between 9.00 a.m. to 5.00 p.m. in case any query/clarification regarding e-tendering process HELPLINE No. 0172-2740641 of Department of Information Technology, Chandigarh administration, Sector 9-D, Chandigarh.

-Sd-

Divisional Manager CTU &
Director Transport,
U.T., Chandigarh.

E-tenders (Online tenders) for the Supply and installation of Automatic Vehicle Location System (AVLS) of AIS: 140 standard along with Panic Button in 173 Buses .Design, Development, Implementation , Operation & Maintenance of AVLS system for 213 buses (173 buses+ 40 buses) .Supply and installation of installation of 06 New PIS boards (50") and maintenance of 08 PIS boards 50" (06 new+ 2 old).Supply and Installation of Ultrasonic fuel sensor devices in 213 buses . Design, Development, Implementation , Operation & Maintenance of fuel monitoring system for 213 buses.

1. About the Project

CTU desires to implement the Automatic Vehicle Location System (AVLS) of AIS:140 along with Panic Button, Ultrasonic Fuel sensors for its 213 and Passenger Information System (PIS) at ISBTs . It shall entail

- Supply, Installation of AVLS devices including panic button on 173 buses as per AIS-140. The GPS/VTS are mandatorily to be installed by the empanelled vendor approved by the State Transport Authority, Chandigarh vide Memo No-4776/STA/2019,dated 11-10-2019.
- Operation and Maintenance of 213 VTS/AVLS devices along with panic button including communication charges.
- Supply , installation of 06 new PIS board of 50 inches and Operation and Maintenance of 08 PIS boards including 2 Old(already installed ,50") at ISBTs or other desired locations.
- Supply and Installation of Ultrasonic fuel sensor devices in 213 buses.
- Design, Development, Implementation , Operation & Maintenance of the complete fuel monitoring system for 213 buses.
- Transfer of data in real time to back-end server through GPRS.
- Development of MIS and Dashboards for Intelligent use of information as per requirement of CTU for AVLS as well as Ultrasonic fuel sensors /fuel monitoring system.
- Using information for public consumption.
- Developing mobile application for Android, IOS and web based portal.
- Sharing information with other platforms- Online as well as Offline.
- Development of common Dashboard and Integration with existing set up and ETM software, Overtime Software and OBRMS.

2. Scope of Project:-

CTU has implemented computerization to some extent such as daily roster generation, waybill preparation (ETM application) and daily receipt MIS; however CTU is inclined to hire the services of

Technical Partner for implementation of AVLS system (AIS:140) ,Fuel Monitoring system in all 213 buses and PIS system at ISBTs.

The Technical partner shall be responsible for the following:-

- On-board GPS Devices of AIS :140 standard.
- On board Ultrasonic fuel sensors compatible to the GPS devices of AIS:140 standard.
- GPRS Communication network.
- Software Application (along with source code) and Integration with hardware Infrastructure.
- Development of MIS as per requirement of CTU for AVLS , Fuel Monitoring System and PIS systems.
- Developing Mobile App/Web portal for AVLS and Fuel Monitoring System.
- Maintenance and operation of 213 GPS/VTS (AVLS) devices completely (including communication & software etc.)
- Ultrasonic Fuel Sensor of Accuracy of +/-1% .
- Maintenance and operation of Fuel Monitoring system for 213 buses.
- Compatibility of the Ultrasonic Fuel sensor with GPS devices (AIS:140).
- Accurate tracking of diesel filling volume, diesel drain volume and pilferage.
- Development of MIS reports for AVSL,FMS during contract period.
- Regular calibration of Ultrasonic Fuel Sensors.
- Accurate MIS reports for inclined area for fuel monitoring system.
- Working of Ultrasonic Fuel Sensors in extreme weather conditions .

CTU shall provide server for data storage and application running/hoisting along with desktop/work stations and Printer or other hardware infrastructure with respect to command control center.

3. No. of Buses

At present, the AVLS/GPS devices are to be installed on 173 buses plying on various Inter State routes. On 40 buses AVLS/GPS devices have already been installed. The ultrasonic fuel monitoring sensors are to be installed in 213 buses .The successful bidder has to ,design, develop, operate and maintain the AVLS and Fuel Monitoring system for all 213 buses. However, the number of buses can be increased or decreased depending upon the induction of new buses or phasing out of old fleet and payment will be made accordingly.

4. **Term of Project:-**

The term of the project shall be Three years, extendable by two years (one year at a time); depending upon satisfactory performance and subject to fulfillment of parameters specified in **Annexure I** attached with this RFP. The execution and hand-holding period shall be three months. The term shall start from the successful completion and handing over of the project to CTU.

5. **Bid Validity:-**

The offer of tender will be valid for a period of 90 days from the date of opening of tender (technical bid). Withdrawal of offer of finalized firm during this period will result into forfeiture of earnest money.

6. **Bidding Criteria**

- i) The bidder has to upload his technical and financial bid online .
- ii) The financial bid will be opened of technically qualified bidder only.
- iii) The bidders are required to quote their rates on monthly basis as per BoQ.

This shall be on basis of Monthly Cost to CTU for 213 buses (the existing bus fleet) in INR. This amount for the whole project term (three years) shall be added to manpower cost for hand-holding for three months. The same shall be quoted as per the format given for financial proposal. **The total cost (excluding all taxes) thus arrived shall determine the project cost and the lowest bidder (L1) shall be successful.**

7. **Technical Experience**

- i) Experience of similar nature project in minimum 2 Projects (for fleet size of more than 30 buses) in the last five (5) years ending 31.03.20. Satisfactory performance/completion certificate and purchase orders (duly notarized or self attested) must be attached along with the technical bid.
- ii) The prospective bidder must have Registered service tax number/GST should be attached with the technical bid.

8. **Financial Turnover:**

Average annual turnover should be minimum Rs. 50.00 lakhs in the last two years (copy of Annual returns for financial years 2017-18 and 2018-19 to be attached in this respect) along with audited copy of balance sheets duly attested/audited by Chartered Accountant (CA). The bidder has to submit its documentary proof for the same.

9. Documents comprising Bid:-

1. Complete documents in support of Technical qualification criteria as defined above consisting completion Certificate, performance certificate, detailed work order etc in respect of completed projects .
2. Complete documents in support of financial qualification as defined above.
3. The bidder(s) should furnish the copy of PAN Card and GST registration certificate.
4. Scanned copy of the EMD and tender fee as well as the tender documents/RFP duly signed each page must be attached with the technical bid online and the original should be deposited in physical form in the office of the Director Transport, UT, Chandigarh on or before the closing date of the bid.
5. Scanned copy of the affidavit (as per specimen given in the tender documents) must be attached with the technical bid online and the original should be deposited in physical form in the office of the Director Transport, UT, Chandigarh on or before the closing date of the bid.

Note:- Bidder shall furnish copies of all necessary documents duly certified/ attested by notary public with legible stamp. In absence of requisite documents, The Director Transport, Chandigarh Transport Undertaking, Chandigarh reserves the right to reject the bid without making any reference to bidders.

10. EARNEST MONEY DEPOSIT (EMD)/BID SECURITY.

- 10.1 The prospective bidders shall submit Earnest Money Deposit (EMD) amounting to **Rs.2,00,000/- (Rupees: two lakh only)** in the shape of Bank Draft/FDR/Bank Guarantee in physical form of any scheduled Bank in favour of Divisional Manager CTU & Director Transport UT Chandigarh, Plot No. 701, Industrial Area Phase-I, Chandigarh, payable at Chandigarh and scanned copy of the same must be submitted along with the technical bid online.
- 10.2 The EMD of the unsuccessful bidder will be returned immediately after the allotment of the said contract and the EMD of the successful bidder will be returned after depositing the performance security and signing of agreement as per tender documents.
- 10.3 The e-tender must be accompanied with Earnest Money Deposit (EMD) for the amount as mentioned and drawn in the name of the Divisional Manager CTU & Director Transport, U.T., Chandigarh, Plot No. 701, Industrial Area, Phase I, Chandigarh, payable at Chandigarh which should be valid for 180 days beyond the opening of technical bid.
- 10.4 In case of successful bidders backs out, his/her earnest money/security shall be forfeited along with interest thereupon and the bidder will be black listed for any future contract as per Chandigarh Administration Finance Department Notification No. 1927-F&PO(3)-2009/1170, dated 27.02.2009.
- 10.5 No bidder is exempted from furnishing the Earnest Money Deposit (EMD) and tender fee under any circumstances.

11. SUBMISSION OF BIDS

- 1 Bidders shall have to submit technical and financial bid Online only and EMD is to be deposited physically before due date and time of the e-tender.
- 2 Technical bid shall consist of the documents as mentioned in clause no 7 above and any other documents as well as the technical and commercial information required in accordance with the tender document.
- 3 Financial Bid shall contain the price bid only.

12. Financial BID:-

- i) The bidder (s) should submit their price bid/commercial bid online only as per the BOQ to the tender documents available on the e-tender website for complete project of AVLS system and Fuel Monitoring system for a period of 03 years excluding all taxes.
- ii) The taxes will be paid as applicable on actual date of payment.
- iii) The Price Bid will only be opened of those bidders who technically qualify in the evaluation of their technical bids. For opening Price Bid, time and date will be intimated separately.

13. EVALUATION AND COMPARISON OF BIDS

The Department will evaluate and compare only those bids which are determined to be responsive to the requirements of this bid Document.

14. AWARD OF CONTRACT: AWARD CRITERIA

The Contract will be awarded to the bidder in whose Total Bid Price will be lowest as per financial bid/BOQ (excluding all taxes/GST), provided bidder fulfills all other terms and conditions of the tender documents.

15. TIME PERIOD FOR THE COMPLETION OF WORK:

- i) The work for the Supply and installation of Automatic Vehicle Location System (AVLS) of AIS: 140 standard along with Panic Button in 173 Buses .
- ii) Design, Development, Implementation , Operation & Maintenance of AVLS system for 213 buses (173 buses+ 40 buses)
- iii) Supply and installation of 06 New PIS boards (50") ,operation & maintenance of 08 PIS boards 50" (06 new+ 2 old).
- iv) Supply and Installation of Ultrasonic fuel sensor devices in 213 buses
- v) Design, Development, Implementation , Operation & Maintenance of fuel monitoring system for 213 buses.

should be start immediately after allotment of Letter of Award (LOA) and completed within one month from the date of the Letter of Award (LOA)/work order. The agreement between successful bidder and CTU will be signed within 15 days.

16. DEPARTMENT RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS.

The Department reserves the right to accept or reject any Bid/tender/allotment of contract and to annul the Bid Process and reject all Bids/tender/allotment of contract without assigning any reason.

17. PERFORMANCE SECURITY-

- 1 The successful bidder will have to deposit performance security @5 % of the total cost of the Project in the form of Fixed Deposited Receipt (FDR) or a Bank Guarantee from a commercial bank in favour of "The Divisional Manager, CTU & Director Transport U.T., Chandigarh" payable at Chandigarh, which should be valid for a period of 39 months from the date of supply order/Letter of Award (LOA) and shall have to be deposited and signing the agreement on the non judicial stamp paper of Rs.100/- within 15 days from the date of issue of the Letter of Award/Supply Order.
- 2 In case of delay in performance security up to 30 days from prescribed time limit, penalty as per penalty clauses shall be imposed. In case of further delay CTU will be at liberty to forfeit EMD so deposited.
3. In case of violation of any of terms and conditions as mentioned in the tender documents, the performance security of the bidder(s) shall be forfeited in full along with interest thereupon and the bidder will also be black listed for any future contract as per Chandigarh Administration Finance Department Notification No. 1927-F&PO(3)-2009/1170, dated 27.02.2009 by the Director Transport, U.T., Plot No. 701, Industrial Area, Phase 1, Chandigarh.

18. VALIDITY OF TENDER.

The offer of tender will be valid for a period of 90 days from the date of opening of technical bid. Withdrawal of offer of finalized firm during this period shall result into forfeiture of earnest money.

19. SECRECY

- 1 Any information obtained in the course of the execution of the contract by the Bidder/Bidder, his servants or agents or any person so employed, as to any matter whatsoever, which would or might be directly or indirectly, of use to any enemy of India, must be treated secret and shall not at any time be communicated to any person.
- 2 Any breach of the aforesaid conditions shall entitle the Department to cancel the contract and to hiring or authorize the hiring of the buses at the risk and cost of the Bidder/Bidder, as applicable.

20. REMOVAL AND CHANGE OF DEVICES IN CASE OF DEFECTIVE

- 1 For any Deficiency noted by the Department, the successful bidder shall initiate immediate remedial actions for the same as advised by the Department.

21. Payment Terms:-

- 1). No Upfront charges will be paid to the Vendor.
- 2). Payment per month will be paid to the vendor on monthly basis on submission of bill only after start of the term of the project (i.e. after 3 (three) months from award of Project).
- 3). Manpower charges will be paid after preparation of MIS in desired format, Development of web-portal and mobile-apps after formal acceptance and take-over of project.

22. Penalty

After the start of project term the penalties for poor performance of the system shall be imposable as per the details given below:

- 1) If AVLS or FMS or PIS system in particular bus/ ISBT or dedicated place, does not work more than 8 hours in a day penalty @ Rs 200 per day for each bus will be made from the monthly bill to be paid to the vendor.
- 2) In case of web-portal and mobile app not functioning for more than one day during the currency of project (except when modifications as per the requirement of CTU are to be carried or issue with CTU server), a penalty of Rs. 200/- per day may be imposed for each such case.
- 3) For late delivery of the project after three months, the project term shall be curtailed by the same number of months.
- 4) If AVLS or Fuel Monitoring System or PIS system does not work continuously for 10 days due to any technical failure on the part of the vendor, CTU will have the right to initiate the proceeding for the cancellation of the project and forfeit the security amount. The proceeding of black listing will also be initiated.
- 5) The successful bidder has to rectify/change the device if any technical fault found in the GPS /FMS and PIS boards within 24 hours of the fault noticed otherwise penalty of Rs 100/- per device per day will be imposed.

23. Training

The successful bidder will give training to operate the system to the CTU employees without any additional cost.

24. SETTLEMENT OF DISPUTE AND ARBITRATION-

1 Amicable resolution

- (a) Save where expressly stated otherwise in this Contract, any dispute, difference or controversy of whatever nature howsoever arising under, out of or in relation to this Contract between the Parties and so notified in writing by either Party to the other (the "Dispute") in the first instance shall be attempted to be resolved

amicably by the Parties and failing such the same shall be resolved in

accordance with the procedure set forth in **sub-clause (b)** below.

- (b) Either Party may require the Dispute to be referred to Transport Secretary, Union Territory, Chandigarh for amicable settlement. Upon such reference, both the Parties and the Transport Secretary or his nominee (who can be an employee of Chandigarh UT dealing with the Contract or otherwise) shall meet at the earliest mutual convenient and in any event within 15 (fifteen) days of such reference to discuss and attempt to amicably resolve the Dispute. If the Dispute is not amicably resolved within 15 (fifteen) days of such meeting, either Party may refer the Dispute to arbitration in accordance with the provisions given below.

2. Arbitration-

- (a) Any Dispute which is not resolved amicably, as provided, shall be finally settled by referenced to arbitration and such arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996.
- (b) **Place of Arbitration.**
The place of arbitration shall be Chandigarh only.
- (c) **Language**
The request for arbitration, the answer to the request, the terms of reference, any written submissions, any orders and rulings shall be in English and, if oral hearings take place, English shall be the language to be used in the hearings.
- (d) **Enforcement of Award**
Any decision or award resulting from arbitration shall be final and binding upon the Parties. The parties hereto hereby waive, to the extent permitted by Law, any rights to appeal or to review of such award by any Court or Tribunal. The Parties here to agree that the arbitral award may be enforced against the Parties to the arbitration proceedings or their assets wherever they may be found and that a judgment upon the arbitral award may be entered in any Court having jurisdiction thereof.
- (e) **Fees and Expenses**
The fees and expenses of the arbitrators and all other expenses of the arbitration shall be initially borne and paid by respective parties equally subject to determination by the arbitrators. The arbitrators may provide in the arbitral award for the reimbursement to the prevailing party of its costs and expenses in bringing or defending the arbitration claim, including legal fees and expenses incurred by the said party.
- (f) **Performance during Arbitration**
Pending the submission of and / or decision on a dispute difference or claim or until the arbitral award is published the parties shall continue to perform all of their obligations under this Contract without prejudice to a final adjustment in accordance with such award.

25. GENERAL TERMS AND CONDITIONS.

1. The prices/rates to be quoted by the intending bidder/bidder shall include the supply, and installations, operation and maintenance at the site.
2. The rates quoted should be F.O.R. destination (excluding taxes/GST). i.e. CTU Depots/ISBTs, Chandigarh or the place specified by the office. The GST/taxes as applicable from time to time.
3. Standard quality material will only be accepted as per specification mentioned in the tender documents.
4. All the documents/GRs must be sent direct to this office. The payment will be

made through bank draft/RTGS as per the schedule/terms of payment mentioned in the tender.

5. The payment will be given on actual requirement basis.
6. Earnest money/performance security and/or any other sum of the bidder(s) lying with office of the Divisional Manager, CTU & Director Transport, U.T., Chandigarh, Plot No. 701, Industrial Area, Phase I,, Chandigarh in connection with any other tender/case shall not be considered/ adjusted against this tender.
7. Any conditional, telegraphic tenders, fax tenders, tender without earnest money deposit, tender not on the prescribed form or any deviation from the terms and conditions of the tender notice shall not be entertained and rejected out rightly.
8. This tender form is not transferable.
9. No bidder is exempted from furnishing the Earnest Money Deposit (EMD) under any circumstances, .
10. Any conditional terms and conditions mentioned by the firm in their covering letter or in the tender documents will not be considered at any circumstances.
11. The successful bidder (firms/Companies) is liable to install complete system as defined in BoQ along with its allied equipments (Complete job) within one month from the date of issue of rate award letter. In case, the successful bidder backs out or failed to do the job, the Earnest Money Deposit/security shall be forfeited and the bidder shall be black listed for any future contract as per Chandigarh Administration, Finance Department Notification No. 1927-F&PO(3)-2009/1170, dated 27.2.2009 on the following types of situations:-
 - i) Dishonest/fraudulent/sharp practices are indulged in by the party.
 - ii) Advancing a claim on the basis of forged documents.
 - iii) Sale or supply of spurious items and compromising public safety.
 - iv) Material concealment/suppression of facts or gross misrepresentation of facts.
 - iv) Any other case or situation involving national security.
 - v) On breach of any of the terms and conditions of the RFP/Tender.

UNDERTAKING BY THE BIDDER ON THE STAMP PAPERS OF RS.15/-.

1. I, Shri _____ S/o Shri _____
2. working as _____ of the firm
namely M/s. _____ are duly authorized to apply
for this Tender.
3. I, the undersigned, have read and understood the above detailed terms
and conditions (Clause 1 to 17) as well as Tender Notice and
undertake to abide by them.
4. I under that the I/my firm/company has not been blacklisted by the
Department of Govt. of India or any State Govt. or any Union Territory
or any Public undertaking.

Signature of the Tenderer

Name of the Tenderer _____

Address _____

Tel No. _____

Technical Specifications:

Probe Length Max	3000 mm (As per Customer Requirement)
Output	4 to mA / 0-5V / RS485 / Modbus
Accuracy	/- 2% F.S.
Linearity	/- 2%
Temperature	150° C Max.
Pressure	30 kg /cm ²
Probe MOC	SS 316
Power Supply	12V/24V DC External
Power Consumption	< 6 VA
Response Time	< 1000 m sec
Temperature Coefficient	/- 0.1% per ° C
Process Connections	Flanged / Threaded
Transmitter Enclosure	Flameproof, IP-65, IIA, IIB, CMRI Certified.
Operating Conditions	Temperature 0 to 55° C / Humidity 5 to 95% non-condensing.

Product Specification

Sensing Distance	upto 3 meters
Detection Distance	3 Meter
Frequency	200 KHz
Input Trigger Signal	Continuous,triggered,pulse width,serial TTL,RS232, RS485
Output	4-20 mA ,0-5V , Pulse
Sensor Angle	8 degrees
Brand	AG Electronics
Operating Temperature	0-70 degrees Celsius
I deal in	New Only
Minimum Order Quantity	1 Piece