

Expression of Interest (EOI)
For
Passenger Information System (PIS)

5th May, 2017

Centre for Development Of Imaging Technology, C-DIT

Chithranjali Hills, Thiruvallom

Thiruvannathapuram – 695027

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INVITATION FOR EXPRESSION OF INTEREST

No. CDIT/5/EOI-RTC/002/17-18 Dated 05.05.2017

Centre for Development Of Imaging Technology (C-DIT) invites sealed Expression of Interest (EOI) from Firms/companies/ institutes/ organisations/ agencies for Providing Passenger Information System.

The EOI Document containing the details of qualification criteria, submission requirement, brief objective & scope of work and evaluation criteria etc. can be downloaded from the website www.cdit.org.

Last date for submission of EOI is on or before **10th May, 2017**.

Sealed envelope marked to the captioned address given below mentioning "EOI for Passenger Information System" on the top cover

"The Registrar, Centre for Development of Imaging Technology (C-DIT), Chithranjali Hills, Thiruvallom PO, Thiruvananthapuram, Kerala -695027"

Sd-
Registrar, C-DIT

Note: C-DIT or any of its designates reserves the right to cancel this request for EOI and/or invite a fresh with or without amendments, without liability or any obligation for such request for EOI and without assigning any reason. Information provided at this stage is indicative and CDIT reserves the right to amend/add further details in the EOI.

Engagement of Firms/organizations/Institutions for providing solutions on Passenger Information System

EOI is invited from reputed agencies / organizations / institutions for providing solutions on "Passenger Information System" on outright sale or on a royalty basis for one the projects to be undertaken and implemented by C-DIT. The objectives and technical requirements are given below:-

1. The Passenger Information System shall be part of the Road Transport Corporation automation project.
2. The Passenger Information System shall be web based and mobile based with facility for public access and for tracking buses online.
3. The Passenger Information Shall be linked to the GPS – GIS tracking system being developed by C-DIT and should facilitate the displays
 - a) Inside the bus (non-motorised) LED screen size 24", LED panel , 1920xrgb x1080, contrast ration 1000:1, brightness 250cd/sq.m, view angle 178, power 12 v, video input RGB, BNC, VGA etc.
 - b) Inside the bus (motorised) display controlled by driver when not used closed by a stepper motor. Other specifications as in above.
 - c) Bus stop / bus display arrived LED display board with 5 line arrival information, 30-50m view distance, view angle 180 degree, pixel resolution 6mm, video input VGA/ HDMI, WiFi connectivity, 5v DC power supply 5 A, GP IO card functions etc.
4. Integration with a smart card recharging kiosk at the depot with 42" touch panel kiosk giving users option for recharge of pass/ prepaid travel cards using 24 wallets/debit/ credit cards/ SBI buddy mobile wallets.
5. The Passenger Information shall integrate with fleet management solution, MIS and GIS / analytics solution being developed by C-DIT.
6. The vendor shall agree to provide / co-develop the solution and transfer the IP on a one time/ royalty mode.
7. Detailed specifications are provided as annexure.
8. The vendor shall agree to provide support to C-DIT based on the royalty/onetime payment worked out.

Passenger Information System - ONLINE – BUS LOCATION DISPLAY

This display page indicates the location of BUS, with the name of the place. This page refreshes once every 5 seconds with other buses in the route. Depot authorities can use this display to analyze the traffic pattern also, and can use for intelligent fleet management later.

- Passenger information systems are an extension of the automated application, providing access to the public, relying information related to bus traffic. The system is designed to be non-interactive, yet convey relevant information to the public. The display boards and other devices utilised shall all be connected to the systems online in real-time and the information conveyed to passengers.

Bus Locations

Passengers should be able to log onto the mobile application and see the real-time location and capacity of all buses on an easy-to-view map and find out the times of the next buses passing through their stop.

Real-Time Departures

Passengers enter a specific stop and route into the application or website and it should respond with the real-time departures of the next few buses

Real-Time SMS

Passengers shall text message their agency using a designated phone number and the bus stop code from the bus stop where they are waiting. The system should automatically return the departure times of the next few buses leaving that stop. This gives passengers (without web-enabled cell phones) a way to get accurate transit information.

Trip Planning

The Trip Planner is helpful for new or infrequent riders, allowing them to easily plan trips through the web portal or mobile application.

PASSENGER INFORMATION SYSTEM:

PIS Software (mobile application and web application) to be developed by the bidding partner. Bidder also need to setup display screens in selected depots and in major bus stops and stream line bus information system on it for public access. Advertisement revenue from these display screens need to be shared back with KSRTC. Bidder need to mention this percentage on their proposed solution. Advertisement generation and its monitoring is in bidders scope. Bidder need to consider one manpower in each depot for the operation and support of PIS displays and advertisement monitoring.

HARDWARE REQUIREMENT

Bidder need to consider necessary servers, storage, networking and security components for this project to ensure the availability of online data on secured way. Datacenter in KSRTC premises and a DR facility in Kerala State Data centre may be equipped. Need to consider necessary depot level servers, PCs, Printers , Networking switches and other communication hardware and accessories to ensure the availability in depot level will be the responsibility of the bidder.

Bidder need to proposing one entry level Server, three PCs, two dot matrix and one laser Printer, Network Switch/ Routers and other basic infrastructure in all depots.

Techno / Commercial Proposal:

Keeping these points in mind, bidders need to propose the detailed techno commercial proposal to KSRTC on per passenger revenue sharing model for next five years which is extendable on mutually agreed terms and conditions. Bidder need to consider all types of software, hardware, connectivity and operational expenditure for next five year.

Note for Association:

1. Duration of the project will be initially for a period of five years from the date of starting the operations.
2. Number of Tickets: All passengers related transaction on ETM will be counted as a billing point for the project. Revenue sharing will be calculated based on number of passengers counting on ETM, which include the regular tickets, Smart Card Tickets.
3. Employee / free passes /student concession will not be counted for revenue sharing.
4. Service Taxes will be paid extra by KSRTC as actual as per the prevailing rates during the contract period.
5. Proposal Validity : Minimum 3 months from the date of submission
6. Delivery: New ticketing billing should be started with 8-12 weeks time from the date of signing of project agreement.
7. TSP's or PSU's who is ready to develop at least 70% of the total project only need to submit the proposal (total project outsourcing to third party is not permitted as per recent government directives). Bidder should submit the IP rights or the developments plans for the proposed solution to KSRTC.

FORMAT FOR COMMERCIAL BID FOR ETM AND RELATED AREAS

A. Per Passenger Revenue Sharing

Sl No	Description	Revenue Sharing
1	Proposal for per ticket based revenue sharing for deploying the above mentioned Applications, Hardware, operation support and maintain & support for 5 years	Rupees ---- per Passenger to be shared with bidder

B. Revenue sharing back to KSRTC from PIS displays

Sl No	Description	Revenue Sharing
1	Revenue sharing back on quarterly basis from the revenue generated from advertisements in PIS display screens in depots	XX percentage of revenue will shared with KSRTC