

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM



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Project Report On

“LOCATION BASED GRAPHICAL DISPLAY”

(Sponsored under KSCST)

Under the Guidance of

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ABSTRACT

In this age of abundance of innovative advertising we want to design a low cost graphics display unit targeted to be mounted on city buses which can be remotely managed (via internet). For instance if a display like this is fixed on a city bus then the system can display, a location based advertisements display via internet connectivity using 3G router and a modem connection ,any notice to be displayed by admin (person who will control the server or internet connectivity, monitor the database) like cancellation of any bus , change of bus route , addition of new buses or addition of new routes , real time GPS location update and speed reporting on display and simultaneously the speed and location will be updated in database. The person outside the bus can know the current location of bus , speed , bus no by selecting the particular route no from domain name specified.

The system would be best designed using an ARM board for low power consumption and faster processing , a 3G router with modem for internet connectivity , a GPS module with active ceramic antenna which could be further displayed on a monitor display using a μ VGA card. The system should also be equipped with suitable power supply. Code is written in two different languages 1) to decode the GPS data and send it to database VB is used and IDE is visual studio 2005 , 2) for web page design code is written in ASP and IDE is adobe dream weaver.