



Online Digital Signage  
With Variable Message Sign (VMS)

## Scope of Work

Supply, installation and commissioning of high mast mounted LED VMS Display units on road side and over roads.

Any civil and electrical work that has to be done for erection of the mast mount on outdoor condition. The LED board should be securely hung from the pole mount and with a small platform for manpower to work on the LED display unit if required.

Preparing the Sites for installation of the Signs.

Repairing any damage to the Site resulting from the installation of the Signs.

Operations and maintenance as per SLA clauses.

Establishment of data centre at designated area for storing data, and communications.

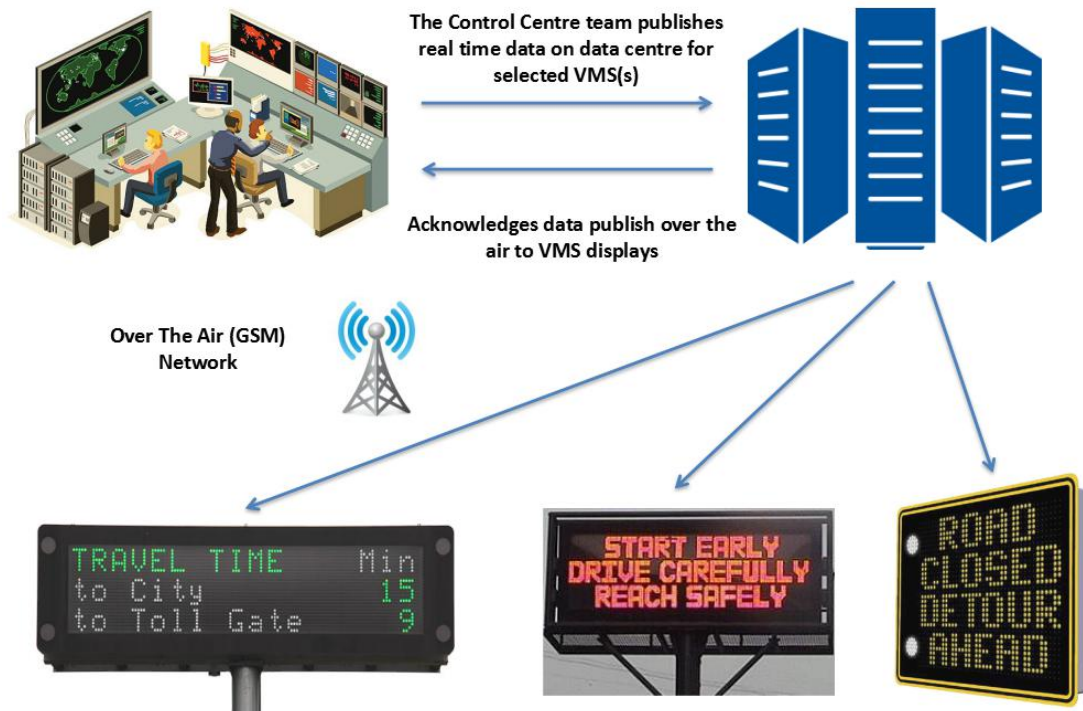
Manpower, internet and hardware networking equipment procurement.

Establishment of Command Control Centre with necessary desktops, networking, internet.

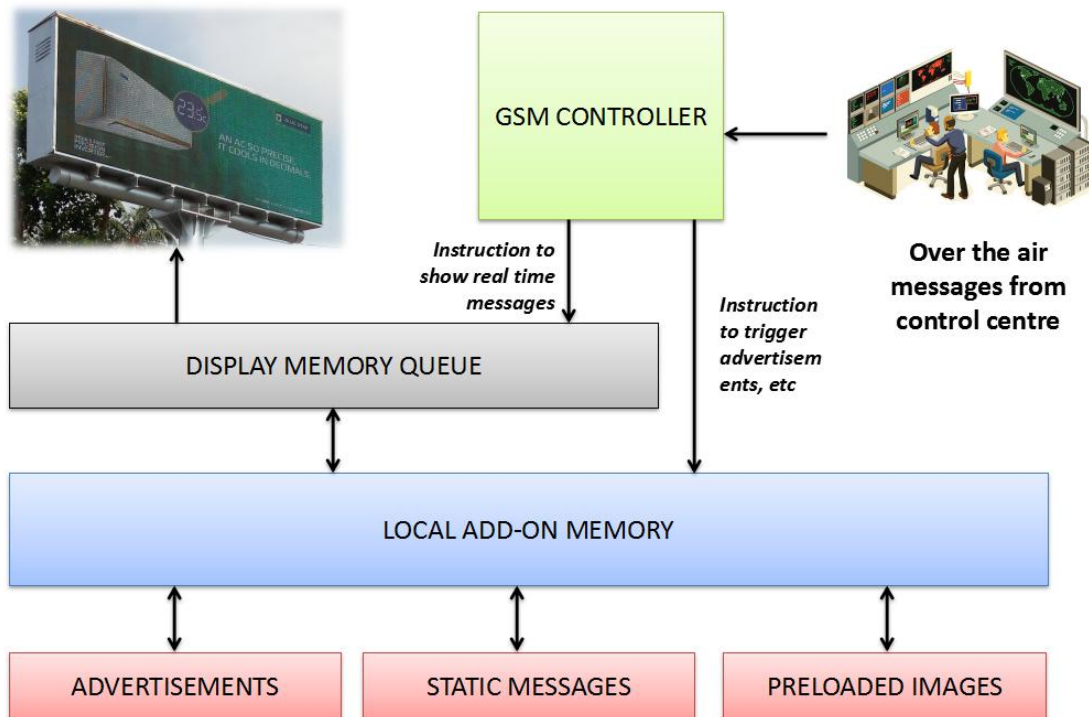
Manpower, internet and hardware networking equipment procurement.

GPRS /3g / 4g connectivity for LED VMS Display units for communication with central server.

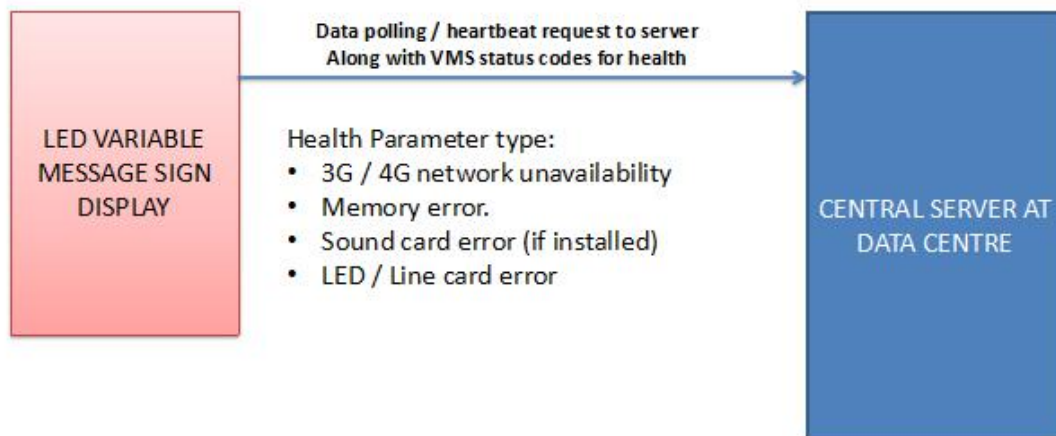
## Overall Architecture



## Online LED VMS Working



## DIAGNOSTIC DATA FROM VMS DISPLAY UNITS



### **Note:**

The heartbeat message is initiated from the VMS at a prefixed interval to let know the VMS is working along with other parameters mentioned. This is message is also used to fetch the server data as well.

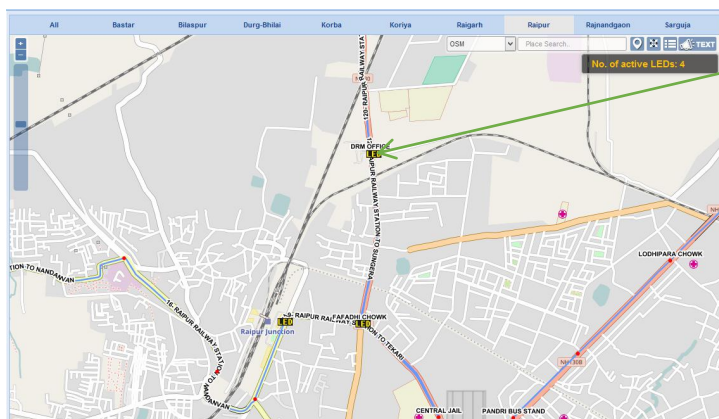
Apart from the transmitted diagnostic data, more detailed data is being logged on the on-board memory file for later diagnostic troubleshooting.

## Command Control Center

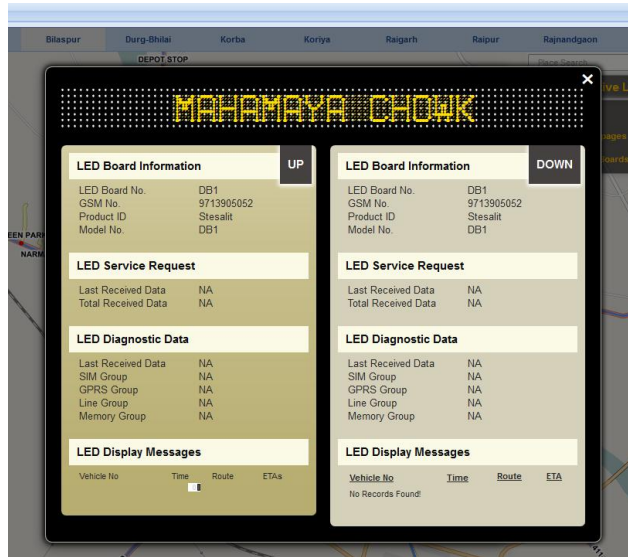
- Video Wall (optional) for command control and information display
- Centralized control team for all transport area
- Centralized information storage and processing
- 4-5 person seat for command control.
- IPABX system for handling incoming and out going calls to maintenance teams.
- Facilitated with centralized access control for access for publisher module.



## Command Control Interface



Click on the LED board symbol.



GIS bases command control interface for operators

## Datacenter Deployment

