Road Accident Data Management System (RADMS) - Government of Tamil Nadu

(a) Geographical Information System (GIS) based software called Road Accident Data Management System (RADMS), funded by World Bank is being used for collecting, comparing and analysing road accident data. With the Police, Highways and Transport Departments as its stakeholders, RADMS has become a successful software being used by the State Government/Transport Commissioner for analysing data and offering suitable remedial measures to avoid road accidents in the future.

(b) RADMS is a comprehensive traffic-management system which helps to study and analyze road accidents in a systematic and scientific way. The successful implementation of this project is a crucial component of our road-safety efforts.

(c) The three stake holder Departments are Police, Highways and Transport have access to use the data for analyses and follow up actions in order to reduce accidents.

(d) This software is developed by IBS software services, Kerala through a Joint Venture with M/s. VIC Roads International Limited, Australia. Police, Transport and Highways are the major stake holders in operationalising the RADMS. The RADMS Software has come into operation with effect from 01.01.2009 in all the designated Police Stations. These agencies work together to achieve the common goals aimed to provide Road Safety for all. These departments use the RADMS for:

i. for making appropriate data entry relating to accidents
ii. for verification of data
iii. to ensure quality of data and
iv. to analyze the data various purpose of planning in the interest of public

(e) All user departments like Police, Transport and Highways feed the data relating to road accidents in the RADMS. Various components included in the RADMS are as follows:

a) Creation of GIS data base
b) Web based access and data flow
c) Seamless report generation and plotting results on maps
d) Black Spots identification and analysis for effective of Police and Transport Departments
e) Analysis of safety scenario of the State by top management and policy makers of the above so far creation of GIS data base above is in progress.
(f) Under RADMS, the number of fields for data entry available to the user departments is:

i) Transport Department – 23;

ii) Highways Department – 14;

iii) Police Department – 68.

(g) The system has the capability to throw up an exception list monitoring the accident records in which data entry has not been done by Highways, Transport Department, so that the same can be followed up. Following are the exception types:

i. Show a persistent alert message till action is taken
ii. Create Pendency reports
iii. Send automatic emails to designated Assistant Divisional Engineer (Highways) / RTO
iv. Escalation mechanism connected to duration of pendency (up to Chairman, District Road Safety Council)

(h) There are twelve types of reports available in RADMS for analysis and suggestion of remedial measures provided which are as follows;

i. Driver report  - This report is generated based on the driver details that are captured in the accident report (AR)

ii. Vehicle report - It is generated based upon the vehicle details that are captured in the AR.

iii. Road report - It shows the details of the roads

iv. Yearly report - Giving idea about annual statistics of road accidents

v. Enforcement - Useful for planning and implementing, planning report enforcement for reducing accidents

vi. Collision type report - This shows a number of accidents of different severities and number of persons killed and injured according to the nature of accidents
vii. Time period report - Shows the time-interval wise comparison of number of accidents of each severity, landmarks between two selected dates

viii. Alcohol usage report - Shows the number of accidents which are due to drunken nature of driver/passenger/pedestrians

ix. Person report - Reports based on the details captured about the persons involved in accidents

x. Land mark report - Shows the number of accidents of each severity, and number of persons killed or injured according to the landmarks

xi. Weather report - Provision shows the number of accidents of each severity, and the number of persons killed or injured as a result of poor weather conditions

xii. General report - There are eight reports in this category with different parameters like accident severity, location, education, etc.