

Project Details: NAeG/14-15/00127

Project id -

NAeG/14-15/00127

Name of The Project

e-MARG (Electronic Maintenance of Rural Roads under i-GeoApproach)

Category of Award Applying for

Innovative Use of Technology in e-Governance

Date of Launch

02-05-2013

Summary/Objective of the project

Rural connectivity is a key component of sustainable rural development in India. Rural roads are the life line of rural development & contribute significantly to generating increased agricultural incomes and productive employment opportunities, alongside promoting access to economic and social services and thereby generating increased agricultural incomes and productive employment opportunities in India. It is also a key ingredient in ensuring poverty reduction. India has essentially a rural-oriented economy with 74 % of its population living in its villages. In the year 2000, it was estimated that about 330,000 out of 825,000 villages and habitations (40 %) in the country are still not connected by all-weather roads. Even the existing constructed roads are of poor quality. A majority of the poorly connected rural communities lie in ten states and Madhya Pradesh is one of them. It was against this background of poor connectivity, GoI have launched a massive rural roads programme Pradhan Mantri Gram Sadak Yojna (PMGSY) in year 2000 with the objective of providing connectivity, by way of all-weather road to the eligible unconnected habitations. Madhya Pradesh Rural Road Development Authority (MPRRDA) is the nodal agency in M.P. for implementation of PMGSY. MPRRDA headed by Chief Executive Officer (CEO) has 100 Project Implementation Units (PIU) throughout the state with engineers engaged in construction of roads. MPRRDA is engaged in construction & maintenance of PMGSY roads in Madhya Pradesh to extend connectivity by All Weather Roads (AWR) to eligible habitations/ villages out of 55,000 villages. Around 65,000 Km of road length has been constructed so far and around 57,000 Km of road is currently under maintenance. Total Sanctioned cost of construction of 70,000 Km of rural roads in Madhya Pradesh is around Rs 19,150 Crores. e-MARG (electronic Maintenance of Rural Roads under GeoApproach) is a Enterprise e-Governance (G2B, G2G, G2C) solution and the users are MPRRDA officials, Civil Contractors, Banks & Citizens, spread across the state. It provides restricted access via internet as per the access policy for G2B & G2G users. For accessing the application, user requires high speed internet connection with computer having browser. It serves all the 51 districts of the M.P. covering around 55,000 villages/ Panchayats & all the roads from National Highways to village roads covered under Core-Network. e-MARG is being utilized for maintenance of around 55,000 Km of road. Maintenance expenditure for the year is Rs 450 Crores and likely to touch Rs 1200 Crores in next 5 years. e-MARG is a first initiative of its kind in the country and thats why it is innovative. Its a fusion of new & emerging technologies like Cryptography (Digital Signature & SSL), GIS & Remote Sensing, Mobile, Open Web technology, SMTP & SMS technology. This has vastly enhanced the planning competence of MPRRDA and can be replicated in other states with untold benefits. The software has received exceptional response from many stakeholders, National Rural Road Development Agency, (NRRDA), MoRD GoI, PWD GoMP, Asian Development Bank (ADB) to name just a few and its demand is expected to rise in future.

In Madhya Pradesh, 70,000 Km of Rural roads are sanctioned and 57,000 Km is covered under maintenance (37,500 Km under Pre-5 while 19,500 Km under Post-5 Maintenance). The number/ length of roads under maintenance will further increase to around 70,000 Km in coming years. Monitoring of maintenance require road wise details and condition of maintenance before making payments to the contractors, as every individual road has different rate and period for payment ,depending on its completion date. Moreover, spread of operation is entire state covered under 56 PIU in 51 Districts which makes difficult to monitor on manual basis. Now MPRRDA PIUs, Contractors & Bank are finding it very useful and they are few clicks away with the help of e-MARG. So, it has drastically reduced response time. Services offered by e-MARG are adding towards savings in time, efforts & cost. It has benefited citizens/ villagers and the Government too. Villages are benefited from each road properly maintained and it also helps organization to manage better with scarce resources. Its active use is expected to make decision making more effective, free from corrupting influences, in view of its inherent capacity to make the process of decision making rational and transparent.

Details of Project Head

Name	Mrs Alka Upadhyaya
Designation	Chief Executive Officer
Gender	Female
Address	M.P. Rural Road Development Authority 5th Floor, Parayawas Bhawan Area Hills BHOPAL
Pincode	462004
State	Madhya Pradesh
Phone Number	7552572207
Mobile Number	9425009065
Email-ID	ceomprrda@gmail.com
Details of team members, if any, other than Project Head:-	
Name(1st team member)	Shri M. Vinayak Rao
Designation(1st team member)	State Informatics Officer
Name(2nd team member)	Shri Vivek Chitale
Designation(2nd team member)	Senior Technical Director
Name(3rd team member)	Shri Rajeev Saxena
Designation(3rd team member)	Chief General Manager
Name(4th team member)	Mrs Geetanjali Mehta
Designation(4th team member)	Technical Director
Name(5th team member)	Shri P.K. Shrivastava
Designation(5th team member)	General Manager
Name(6th team member)	Shri Govind Pancholi
Designation(6th team member)	Manager
Supporting documents:-	Award Specific Form Self Certification by the Project Head