

Project Details: NAeG/14-15/00078

Project id -	NAeG/14-15/00078
Name of The Project	Mobile Application Based Quality Monitoring System
Category of Award Applying for	Innovative use of mobile technology in eGovernance
Date of Launch	26-12-2012
Summary/Objective of the project	<p>Pradhan Mantri Gram Sadak Yojana (PMGSY) is a Centrally Sponsored Scheme under Ministry of Rural Development, with the target of connecting, through good All-weather roads, every habitation that has a population of more than 1000. Number of projects spread across various geographical locations is executed at any given point in time. PMGSY guidelines emphasize upon quality-centered implementation strategy and recognize quality as essence of the Programme. To bring execution of the Programme to the desired high quality standards, a three-tier quality management mechanism has been institutionalized under PMGSY. The first-tier of this mechanism is in-house quality control at Programme Implementation Unit (PIU) level i.e., District. The second-tier is a structured independent quality monitoring at the State level by the State Quality Monitors (SQM). In this tier, every work is to be inspected at three stages, i.e., initial stage, middle stage and final stage of construction. Under the third-tier, independent National Quality Monitors (NQM) are deployed for inspection of road works at random. Though the States are responsible for the first two tiers, however, the National Rural Roads Development Agency (NRRDA) monitors the performance of the States with respect to functioning of these two tiers. With a view to bring a uniformity in reporting and better monitoring of the performance of second tier of quality monitoring, detailed guidelines for inspection and reporting formats have also been prescribed by NRRDA. Every independent quality monitor (SQM) is required to grade the quality of every item and sub-item of roadwork and based on grading of various items and sub-items of work, overall quality Grading would be generated as per guidelines. The work generally conforming to specifications would be graded Satisfactory (S) and work which generally doesn't conform to specifications would be graded Unsatisfactory (U), however, if a work needs some improvement to conform to specifications it would be graded as Satisfactory Requiring Improvement (SRI). The SQMs carry out inspections in the prescribed format and capture digital photographs of work and upload them in the on-line Management Monitoring and Accounting System (OMMAS) through their assigned log-in id. With a view to bring in more transparency and better accountability in the independent quality monitoring system, mobile phone based application (Mobile Application Based Quality Monitoring System MABQMS) has been developed which facilitates the monitors to record the quality grading of items through mobile phone and capture the geo-referenced photographs of work which can be directly uploaded in OMMAS. The solution is based on Smart phones on Android platform has interface with OMMAS through web service to access the inspection schedule details and to upload the observation as well as photos from the mobile.</p> <p>i.National Rural Development Agency under Ministry of Rural Development ii.State Rural Development Agencies of all the States where the PMGSY scheme is implemented iii.District Project Implementing Units where the PMGSY scheme is executed iv.National Quality Monitors and State Quality Monitors</p>
Beneficiary of the project	
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Designation(6th team member)	Project Engineer
Supporting documents:-	Award Specific Form Self Certification by the Project Head