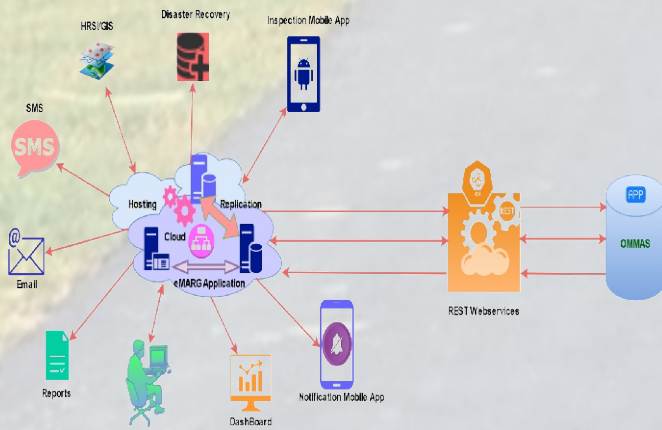


## AWARDS AND RECOGNITION SO FAR

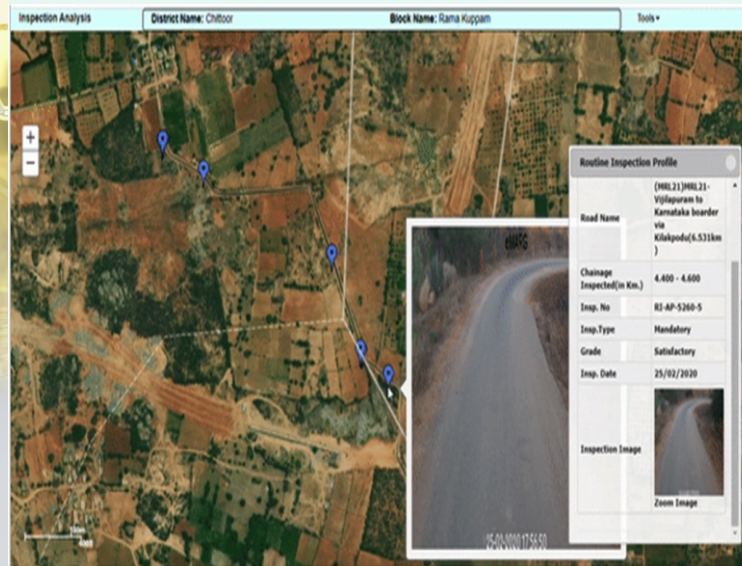
Gold Award Winners for Skoch Awards 2020

Silver Award Winners for National Awards for eGovernance 2021

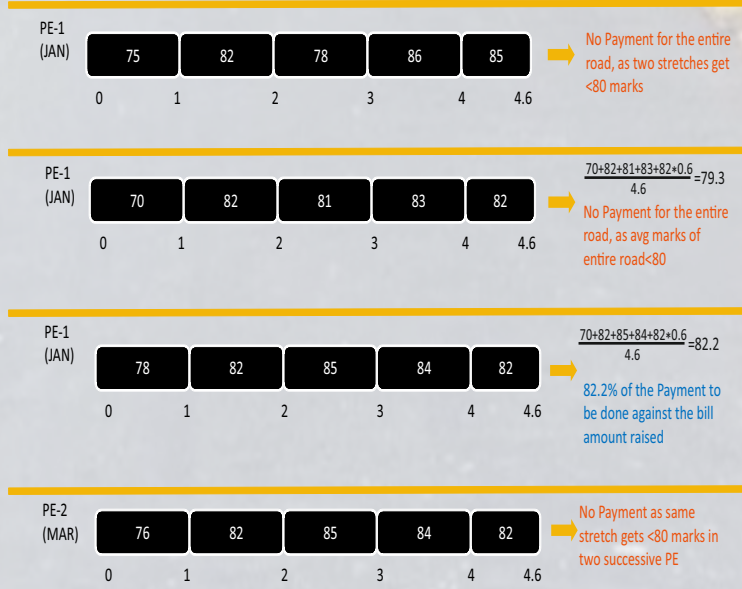
Award of Appreciation, 19th CSI SIG eGovernance Awards 2021



## DIGITAL WALKING ON ROAD FOR MONITORING



**Time and Space Walking:**  
Option to see the condition of road at different time intervals



**NATIONAL RURAL INFRASTRUCTURE DEVELOPMENT AGENCY (NRIDA)**  
**MINISTRY OF RURAL DEVELOPMENT**  
**GOVERNMENT OF INDIA**

# eMARG

(electronic Maintenance of Rural Roads under PMGSY)

[www.emarg.gov.in](http://www.emarg.gov.in)

## THE ROAD TO DIGITAL TRANSFORMATION

EXCELLENCE IN GOVERNMENT PROCESS RE-ENGINEERING FOR DIGITAL TRANSFORMATION

Development Partners







## Pradhan Mantri Gram Sadak Yojana

### Rural Road Connectivity

- 7,78,625 km of roads sanctioned
- 6,81,984 km roads constructed
- 3,40,370 Cr Asset value worth
- 12% of India's entire road network
- 1,78,000+ habitations connected
- 40.5 Cr population (48% rural population) benefitted

### MAINTENANCE OF PMGSY ROADS UNDER PERFORMANCE BASED MAINTENANCE CONTRACTS (PBMC)

#### BOQ system (OLD)



- INPUT BASED MEASURE THE SIZE OF THE POTHOLES FILLED AND MATERIAL INVOLVED
- PAY CONTRACTOR BASED ON THE SAME
- NO GUARANTEE ROAD IS IN GOOD CONDITION

#### PBMC (NEW)



- OUTCOME BASED MEASURE IF THE ROAD FINALLY IS IN GOOD CONDITION OR NOT
- UNRELATED TO HOW MUCH EFFORT CONTRACTOR PUT IN BRING ROAD TO GOOD CONDITION

### PERFORMANCE RUBRIC FOR MAINTENANCE OF ROAD

| # | Parameters   | Marks | #     | Parameters   | Marks |
|---|--|-------|-------|--|-------|
| 1 | Maintenance of surface of road including filling potholes and patch repairs etc. | 50    | 7     | Maintenance of road signs, speed breakers, standing trees adjacent to road wherever required | 2     |
| 2 | Making up of berms/shoulders   | 20    | 8     | Maintenance of 200 m and Kilo Meter stones   | 2     |
| 3 | Restoration of rain cuts and dressing of side slopes/berms                       | 10    | 9     | Cutting of branches of trees, shrubs and trimming of grass and weeds etc                     | 3     |
| 4 | Maintenance of drains  | 3     | 10    | White washing parapets of Works including CD   | 2     |
| 5 | Maintenance of culverts and cause ways   | 4     | 11    | Painting of guard stones   | 2     |
| 6 | Maintenance of guardrails and parapet rails                                      | 1     | 12    | Re-fixing displaced guard stones   | 1     |
|   |  |       | Total |  | 100   |

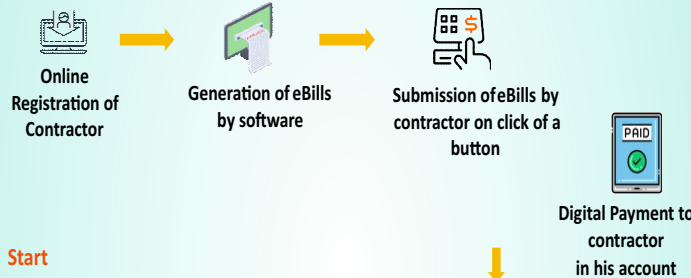
## eMARG

### Electronic Maintenance of Rural Roads

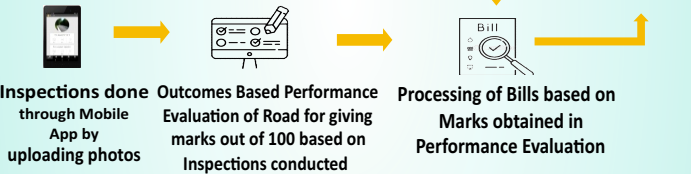
- IT re-engineering for all functions related to the execution, monitoring and management of rural road maintenance centered around outcomes and evidence
- End to end digitization of all processes related to maintenance from billing, verification of work, final payment to contractors and monitoring.
- Fusion of multiple e-governance technologies such as Web ERP, GIS, mobile apps, SMS, digital payments and accounting.

### Maintenance Through eMARG

#### Start



#### Start



#### DATA ANALYTICS FOR EFFECTIVE MONITORING

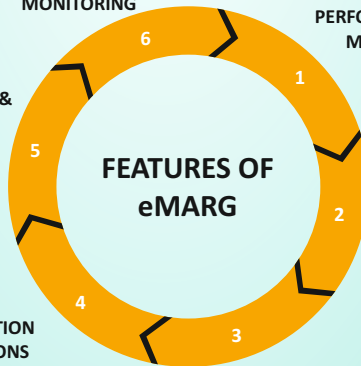
#### PERFORMANCE BASED MAINTENANCE CONTRACT

#### SMS NOTIFICATIONS & REMINDERS TO ENSURE TIMELY MAINTENANCE

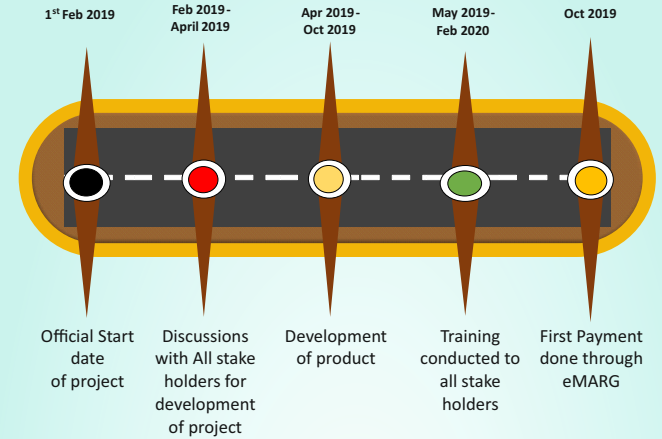
#### PLATFORM DIGITIZATION

#### MOBILE APPLICATION BASED INSPECTIONS WITH GIS INTEGRATION

#### PROCESS AUTOMATION & OPTIMIZATION



## JOURNEY OF IMPLEMENTATION



## ACHIEVEMENTS SO FAR

### Milestone of 1000 Cr Payment through eMARG Achieved

- 29** States and UTs making payments
- 1,330** Engineers from 737 districts PAN India using eMARG
- 13,038** Contractors registered on eMARG
- 1,96,000 km** Road available in eMARG for payments
- 5,07,242** Routine Inspections carried out
- 10,00,000+** Photographs on record for seeing the condition of roads
- 8,91,539** Bills Submitted by contractors across country
- 1,033 Cr** Payments disbursed Nationally
- 5,662** Zero Payment Roads

#### Payments made through eMARG (Cr)

