



**National Rural Infrastructure Development Agency  
(Ministry of Rural Development)  
Government of India**



**Annual Action Plan  
2021-22**

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## **Annual Action Plan for the Financial Year 2021-22\***

### **I Division: Finance & Administration**

1. Filling up of vacant posts in office.
2. Timely submission of NRIDA's Annual Report and Audited Accounts for the year 2020-21 for laying in the Parliament.
3. Completion of interest verification exercise being conducted by various States.
4. Examination of OMMAS based Balance Sheets of all funds submitted by States for the FY 2020-21.
5. Arrangement of Executive Committee (EC) and General Body (GB) meetings as per the Rules and Regulations of NRIDA.
6. Complete implementation of online EMD and Tender fee collection in PMGSY tenders.
7. Updation of Accounting Manuals of PMGSY.
8. Shifting of office from August Kranti Bhawan to RINL hired office in NBCC Tower, Bhikaji Cama Place.
9. Notification of NRIDA's updated bye laws and revised HR policy.
10. Financial Reconciliation with all the States for PMGSY since inception, so that funds released are allocated against the actual expenditure and excess State share for higher specifications is properly accounted for.

\*Approved by NRIDA GB in its 25<sup>th</sup> meeting held on 16.2.2021

## II Division: Projects-I

### Regular Works:

1. Overall Project Monitoring and Coordination
2. All matters pertaining to policy and programme guidelines
3. Vetting of SOR
4. Reply of Parliament Questions, Standing committee and other committees

Sl No	Task	Timeline
1	<b>eMARG:</b> <ol style="list-style-type: none"> <li>1. Additional development for dealing with exceptional cases of DLP maintenance module to make maximum roads eligible for DLP expenditure payment through eMARG. Some of the exceptional cases are:               <ol style="list-style-type: none"> <li>(i) Termination of package during the DLP period and creation of Balance work in eMARG itself</li> <li>(ii) Partial transfer of road length during the DLP period.</li> </ol> </li> </ol>	<b>April 2021</b>
2	Development of module for Post-5 year maintenance through eMARG.	<b>June 2021</b>
3	Refresher training to states which are not performing good on eMARG.	<b>Every 3 months</b>
4	Monitoring of states for following: <ol style="list-style-type: none"> <li>(i) Correlation between payments made and quality of roads being maintained.</li> <li>(ii) Regular inspections and other activities required for making payments through eMARG.</li> <li>(iii) Regularity of payments done through eMARG</li> </ol>	<b>To be followed up throughout.</b>
5	<b>GePNIC:</b> <ol style="list-style-type: none"> <li>1. Training of states to push works through OMMAS and use GePNIC for tendering of works.</li> <li>2. Monitoring of states for the time taken by them in awarding of works.</li> </ol>	<b>Time line: To be followed up throughout.</b>

<b>Sl No</b>	<b>Task</b>	<b>Timeline</b>
<b>6</b>	<b>Use of Geo informatics in Rural Road Projects under PMGSY:</b> Following activities are required to be completed on Bhuvan Portal: <ol style="list-style-type: none"> <li>1. Data of all states to be uploaded by NRSC</li> <li>2. Verification of NRSC/CGARD reports by states for length/ habitation errors.</li> </ol>	<b>April 2021</b>
<b>7</b>	Training to states for providing their comments	<b>May 2021</b>
<b>8</b>	Monitoring of replies by states	<b>To be followed up throughout.</b>
<b>9</b>	<b>ICT:</b> <ol style="list-style-type: none"> <li>1. Development and implementation of PMIS module.</li> </ol>	<b>April 2021</b>
<b>10</b>	eSOR Module development.	<b>June 2021</b>
<b>11</b>	Development and correction of OMMAS reports.	<b>April 2021</b>

### **III Division: Projects-II**

#### **1. Action Plan of ADB Ongoing Loans: -**

##### **(a) Outcome:**

Currently 2 loans of ADB ongoing in PMGSY and both the loans are covered under the Second Rural Connectivity Investment Program (SRCIP).

##### **Details of Loan 3611**

- Total \$ 250 Million funds allocated and out of this \$30.47 million has been surrendered.
- This loan will close in June 2021 as per the loan agreement.
- Total 94% physical work and 81% disbursement has been achieved.

##### **Details of Loan 3703**

- Total \$ 110 Million funds allocated and out of this \$16 million has been surrendered.
- This loan will close in June 2023 as per the loan agreement.
- Total 96% physical work completed and 79% disbursement completed.

##### **(b) Target:**

- All the remaining work will be complete before June 2021, 100% disbursement will be achieved by December 2021.
- The remaining physical work will be completed in 2021-22 and 90% disbursement will be achieved by March 2022.

##### **(c) Resource**

To get this target in all 5 states PMGSY engineer and PIC are working. For monitoring and helping the state to implement the ADB project as per the schedule and as per contract, NRIDA and consultants are working.

#### **2. Action Plan for Training in 2021-22**

##### **(a) Outcome:**

PMGSY engineers get opportunities to learn new technologies in the rural road sector in India and abroad. Capacity building programs are organised for imparting knowledge and awareness.

##### **(b) Target:**

- In this financial year P-II division will organise program for training of approximately 1500 PMGSY engineers by different institutions. Quarter wise training programs proposed during the year detail are listed below: -

	Q-1 (April-June)	Q-2 (July-Sept)	Q-3 (Oct-Nov)	Q-4 (Jan-March)	Total in 2021-22
<b>No. of Participant in Training</b>	300	500	400	300	1500

**(c) Resource**

- To conduct these trainings NRIDA select India's top premier institutes and Research centres who have vast experience in the transportation sector like CRRI, IAHE, ESCI, IIT Roorkee, IIT Bhubaneshwar, NIT Warangal, NICMAR, AITD etc.
- iGoT based modules for training of NQMs, SQMs and Engineers of SRRDAs and PIUs to be arranged.
- Providing full training material for engineers working in the RES or counterpart departments.
- Development of assessment modules for assessing the competencies of NQMs, SQMs and Engineers of SRRDAs and PIUs on a voluntary basis.

**3. Action Plan for Research and Development in 2021-22**

**(a) Outcome:**

NRIDA sponsors couple of research projects to different premier institutes and research centres. Outcome of the research work reduces the dependency on conventional material and promotes the use of locally available materials and technologies.

**(b) Target:**

In the current year, P-II division received lots of research proposals from different reputed institutes and RCTRCs (Constructed under ADB project). In the upcoming financial year, these proposals will be analysed and place before the committee constituted for approval of research proposals.

Based on the expected outcome of research proposals, and available funding, the committee will recommend and then with approval of ministry, the Principal investigators will be informed to start the works.

**(c) Resource**

NRIDA has received proposal from IITs, NITs, Research Centres, and some Govt. recognized institutes.

#### IV Division: Projects-III

##### 1. Target

Target Set for the quality in PMGSY is 96% regarded satisfactory percentage of completed works, while taking three years average into consideration. In order to achieve this target, a three tier system is in place for quality monitoring. In the first tier, the quality standards are enforced through in-house mechanism by establishing field laboratories and carrying out mandatory tests. Similarly, under second tier, independent monitoring of quality at the State level has been prescribed wherein the States are required to monitor the quality of works by deployment of quality monitors, independent of the executing machinery. These two tiers are the responsibility of the States implementing the programme. The Third tier is envisaged as an independent monitoring mechanism at the central level. Under this tier, the independent National Quality Monitors (NQMs) are engaged for inspections of roads, selected at random.

##### 2. Scope for Annual Action Plan (1<sup>st</sup> April, 2021 to 31<sup>st</sup> March, 2022)

###### (a) NQM inspections

- (i) **Outcome:** Quality improvement by way of third party checking, also educating ground staff through experienced NQMs
- (ii) **Inspection Target:** 6,500 numbers (*tentative, these targets are decided in first week of April*)
  - Quarter I (April,2021 - June,2021) - 1,300
  - Quarter-II (July,2021-September,2021) - 650
  - Quarter-III (October,2021-December,2021) - 1,950
  - Quarter-IV (January,2022-March,2022) - 2,600
- (iii) **Resources:** 92 NQMS are active as on 6<sup>th</sup> January, 2021. Further empanelment of new NQMs is underway.
- (iv) Utilization of drones for conduct of road inspections. Pilots to be conducted.



**(b) SQM Inspections**

(i) **Outcome:** Quality improvement by way of independent inspection of roads/bridges at various stages of construction, these inspections are planned on each 5 km section of road. Three inspections not only keep a check on quality of projects but also help to change the course of construction, if found otherwise.

(ii) **Inspection Target:** 50,000 numbers (*tentative, these targets are decided in first week of April*)

- Quarter I (April,2021 - June,2021) - 10,000
- Quarter-II (July,2021-September,2021) - 5,000
- Quarter-III (October,2021-December,2021) - 15,000
- Quarter-IV (January,2022-March,2022) - 20,000

(iii) **Resources:** The States have already established Quality Monitoring Units (QMUs) headed by State Quality Coordinator (SQC). The States are carrying out 2<sup>nd</sup> tier inspections by empanelling State Quality Monitors (SQMs). Recently, NRIDA has issued instructions for the States to strengthen Quality Monitoring Unit (QMU) for better monitoring of 2<sup>nd</sup> tier.

**(c) Performance Evaluation of NQMs**

(i) **Outcome:** Quality of inspections depends upon the quality of inspections done by monitors. All the non performing NQMs are being segregated and are de-empanelled by evaluating their performance through an independent committee i.e Performance Evaluation Committee.

(ii) **Target:** Generally, performance evaluation of NQMs is carried out once in a year, however, it is targeted to conduct performance evaluation of NQMs twice in Financial Year 2021-22, in order to improve the quality of inspections done by NQMs.

(iii) **Resources:** A Committee of Principal/ State Technical Agencies (PTAs/ STAs) is formed to conduct the performance evaluation of NQMs.

**(d) Empanelment & training of new NQMs**

(i) **Outcome:** More number of NQMs will lead to more inspections on ground. More inspections means more quality checks as well as capacity building of ground staff by visiting NQMs, leading to better quality of works.

- (ii) **Target:** Target for recruitment & training of new NQMs for 2021-22 is to complete before May 2021.
- (iii) **Resources:** The Selection Committee for selection of NQMs, comprises of members from PTAs, STAs, IRC, NCCBM, domain experts. Training of new NQMs will be conducted in IAHE.
- (e) **Empanelment & training of new SQMs**
- (i) **Outcome:** More SQMs means a direct impact on ground quality, by means of regular inspections.
- (ii) **Target:** The State Govt. has been asked to empanel sufficient number of SQMs.
- (iii) **Resources:** The State Govt. empanels the SQMs and in association with NRIDA gets their training conducted through some reputed institution.
- (f) **Workshops for SQMs**
- (i) **Outcome:** Since, SQM inspections has direct impact on the quality of work, hence enhancement in their knowledge will enhance the overall quality of works.
- (ii) **Target:** Total 10 training schedule are planned for SQMs as per bifurcation given below:
- |  |   |    |
|--|---|----|
| • Quarter I (April,2021 - June,2021)       | - | 02 |
| • Quarter-II (July,2021-September,2021)    | - | 04 |
| • Quarter-III (October,2021-December,2021) | - | 02 |
| • Quarter-IV (January,2022-March,2022)     | - | 02 |
- (iii) **Resources:** Workshops will be conducted with the help of SRRDAs and reputed institution, including CRRI, PTAs, STAs, IAHE.
- (g) **Making NQM & SQM reports web based**
- (i) **Outcome:** Making NQM & SQM reports web based will lead to transparency and saving to the environment.
- (ii) **Target:**
- Quarter-II (July,2021-September,2021) - NQM reports web based
  - Quarter-IV (January,2022-March,2022) - SQM reports web based

- (iii) **Resources:** NRIDA ICT team with the help of CDAC will develop this facility
- (h) **Smart selection of NQM / SQM reports for scrutiny**
  - (i) **Outcome:** The smart solution will help in selection of report, thus saving time and energy.
  - (ii) **Target:** Quarter-III (October,2021-December,2021)
  - (iii) **Resources:** NRIDA ICT team will be responsible for development of facility.
- (i) **Engaging Agency / NQM for Bridge inspection**
  - (i) **Outcome:** Bridge inspection by expert agency / NQM will lead to better quality and workmanship of bridges.
  - (ii) **Target:** Target will be commensurate with the NQM inspection targets.
  - (iii) **Resources:** Empanelled NQMs will be engaged for the inspections.
- (j) **Engaging Agency in addition to NQMs for inspections**
  - (i) **Outcome:** Engaging agency in addition to NQMs for inspection will lead to more inspections on ground and thus lead to better quality.
  - (ii) **Target:** Target will be commensurate with the NQM inspection targets.
  - (iii) **Resources:** An independent agency will be engaged for the inspections.
- (k) **National workshop on New Technologies in Rural Roads under PMGSY**
  - (i) **Outcome:** National workshop on technologies will enhance the knowledge of ground staff and other stockholders in PMGSY works.
  - (ii) **Target:** Before January, 2022.
  - (iii) **Resources:** All divisions of NRIDA, PTAs, STAs, CRRI, NHAI, consultants and outsourcing of event management services.
- (l) **Establishment of Quality Monitoring Unit (QMU) at NRIDA**
  - (i) **Outcome:** Establishment of QMU at NRIDA will help in checking of reports of NQM / SQM and thus leading to better inspection and better quality of works on ground.
  - (ii) **Target:** June, 2021.
  - (iii) **Resources:** Sufficient staff will be outsourced for the purpose.

**V     Division: Technical**

Sl No	Task	Timeline
1	Discussion paper on Full Depth Reclamation (FTR) to be sent to States	
2	PTA/ STA Guidelines & Regional level Workshops	4 Workshops will be completed in 2021-22 First Quarter - 2 Region Second Quarter - 2 Region
3	New Technology Performance Evaluation - MoU between PTAs/ STAs	
4	Performance Evaluation of STAs	Evaluation format will be finalised and Training will be given to selected NQMs before 30.04.2021.
5	Technology Vision 2021	30.06.2021
6	Revision of Operations Manual	30.06.2021
7	Sanctioning of 62,500 km under PMGSY during 2021-22	Ist Quarter - 12500 km IInd Quarter - 20000 km IIIRD Quarter - 20,000 km 4 <sup>th</sup> Quarter - 10000 km (will be modified in April 2021 based on the balance length to be sanctioned)
8	Construction of 15,000 km using new technologies	Ist Quarter - 1,000 km IInd Quarter - 3,000 km IIIRD Quarter - 4,000 km 4 <sup>th</sup> Quarter - 7,000 km (Will be modified in April 2021 based on pending new technology length)

Sl No	Task	Timeline
9	Empanelment of Bridge consultants / Agency	31.05.2021
10	<p>Do it Yourself Booklets will be prepared on the following topics</p> <ol style="list-style-type: none"> <li>1. Panelled Cement Concrete</li> <li>2. Coir Geo Textiles</li> <li>3. Cement Grouted Pre Mix Carpet and Bituminous Macadam</li> <li>4. Cement Stabilised pavements with High volume Fly Ash</li> <li>5. Geo-Polymer Concrete</li> <li>6. Construction of Cement Stabilised Sub Base/Base – to be revised based on the experience gained</li> <li>7. Pavements using Commercial Stabilizers</li> <li>8. Interlocking Cement Concrete block pavement</li> <li>9. Geocells</li> <li>10. Surface dressing</li> <li>11. Practical hand book on CDs and Bridges</li> </ol>	31.03.2022
11	Generation of Online Proforma C for roads and Bridges from OMMAS	31.05.2021
12	New Module be created on OMMAS for uploading ATCC reports	IT Division
13	e- DPR	IT Division
14	Provision for entering post 5 years routine maintenance cost needs to be created in proposal module of OMMAS under PMGSY-III	IT Division
15	To publish Grameen Sampark Technical Quarterly magazine of NRIDA	
16	Working out precise methodology for connecting habitations that are still unconnected to the core network, through MGNREGA.	

## VI **Division: ICT-PMU**

1. e-Marg post 5 maintenance module - Provisioning a module in National e-Marg for maintaining roads in their post-5 year DLP period.
2. Redesign OMMAS- So that it should be user friendly
3. AI-based surface detection - Automatic PCI detection of roads based on road images.
4. PMIS - Enhancement, new features as per the division's requirement.
5. E-form for NQM/SQM inspection & evaluation – Digitization of inspection and evaluation forms, which are currently filled manually and uploaded on OMMAS.
6. Digitization of DPR checklist- Digitization of Proforma C and checklist
7. Anomaly detection for scrutinizing DPRs- Rule-based algorithm to detect anomalous proposals for scrutinizing DPRs
8. Road safety audit module at OMMAS
9. E-Audit Para with access to CCA, MoRD, and NRIDA including states.
10. e-SOR Module-Digitization of submission of annual SORs and their approvals on system
11. Reduced the apps and incorporate in one app
12. OMMAS ticketing system- An issue management system for capturing the issues reported by states and track them for timely resolution.
13. On boarding and Handholding of all states on GEOSADAK GIS application.
14. BI Dashboard
15. Create DIY reporting module – A custom reporting module to allow division users to create their own reports and dashboards.
16. Enhancement / new features as per the division's requirement in OMMAS application.
17. Enhancement, new features, and handholding as per the division's requirement in eMARG application.
18. Enhancement, new features, and handholding in GePNIC application as per the division /state requirement.
19. Enhancement, new features, and handholding of states in PFMS REAT as per the division /state requirement.
20. Cater various requests from ministry to share our PMGSY data to an external application.
21. Social Media Promotion of PMGSY
22. Launch GIS Curriculum for SRRDA and PIU.



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