

F-349530

GOVERNMENT OF INDIA
MINISTRY OF RURAL DEVELOPMENT
NATIONAL RURAL ROADS DEVELOPMENT AGENCY
BHIKAJI CAMA PLACE
NEW DELHI

F.No.G-20014/3/2015/F&A

Date: 27.11.2015

Meeting Notice

The 37th meeting of the Executive Committee of the National Rural Roads Development Agency (NRRDA) is rescheduled to be held on 12th December, 2015 at 11.00 AM at NRRDA Conference Hall, new Delhi.

It is requested to kindly make it convenient to attend the meeting as per the re-fixed schedule. A line in confirmation is requested. The Agenda is enclosed.

Encl: As above.



(Anjali Singh)
Director (F&A)

Distribution:

- 11 - 7726 - 1. Dr. Praveen Kumar, Professor, Transportation Engg. Section, Dept. of Civil Engineering, IIT, Roorkee -247667.
- 11 - 7727 - 2. Dr. M.S. Amarnath, Professor, Civil Engg. Dept., Jhanabharati Campus, Bangalore University, Bangalore - 560056(Karnataka)
- 11 - 7728 - 3. Dr. Ashok Kumar Sarkar, Dean, Faculty Div.-1, Deptt of Civil Engg., Birla Institute of Technology & Schience, Pailani-333031, Rajasthan
- 7729 - 4. Prof. K.Sudhakar Reddy, Professor, Civil Engg., Indian Institute of Technology, Kharagpur - 721302, West Bengal.
- T.M - 7730 - 5. Director, Finance Div., Ministry of Rural Development, Krishi Bhgvan, New Delhi
- By Hand - 7730 - 6. Dr. I.K.Pateria, Director(Tech.) NRRDA, New Delhi
- T.M - 7730 - 7. PPS to DG, NRRDA, New Delhi
- By Hand. - 7730 - 8. PA to Director(F&A), NRRDA, New Delhi


21/12/15

National Rural Roads Development Agency
Ministry of Rural Development, Government of India

**Agenda for the 37th Meeting of the Executive Committee scheduled
to 26th November, 2015**

| | | |
|------------------|--|---|
| Item No.1 | Confirmation of the Minutes of the 36th meeting of the Executive Committee of NRRDA and action taken thereon. | |
| | <p>Proceedings of the 36th meeting of the Executive Committee held on 4th August, 2015 placed at Annex."A", were circulated amongst the members of the Executive Committee vide letter No. 20011/1/2004/F&A dated 10.8.2015. No comments have been received from the members. It is proposed to confirm the Minutes of the previous meeting.</p> <p>Action taken on the Minutes is as follows:</p> | |
| | <i>Item No.I</i> | <p>Confirmation of the proceedings of the 35th meeting of the Executive Committee</p> <p>No Further action required</p> |
| | <i>Item No.II</i> | <p>Consideration of the recommendation of the 16th , 17th , & 18th Selection Committee Meetings for Empanelment of new NQMs.</p> <p>The recommendation of the 16th, 17th, & 18th Selection Committee Meetings were ratified by the Executive Committee. The Committee noted that out of a total of 85 applicants, 23 candidates were clearly recommended for empanelment as NQMs by the Selection Committee. The Chairperson DG, NRRDA observed that there has been an inordinate delay in holding the Performance Evaluation Committee Meeting as the last meeting was held in December, 2014.</p> <p>The meeting of PEC has since been held.</p> |
| | <i>Item No.III</i> | <p>Consideration of the phase II of Citizen Monitoring of Rural Roads Under PMGSY – RRP-II</p> <p>The committee decided the following:</p> <ol style="list-style-type: none"> i) The role of Public Affairs Centre (PAC) should be clearly defined in such a way that it should not overlap with the mandates of the existing inspection |

| | | |
|-----------|--|--|
| | | <p>Authorities/bodies.</p> <p>II) PAC should identify those roads where appreciable work has been done</p> <p>III) The report of the Public Affairs Centre (PAC) should be shared with NQMs.</p> <p>Action already taken in respect of observations of EC at Sl.Nos. (i) & (ii). In so far as Sl.No.(iii) is concerned, the final report of the PAC to be received in May, 2016, will be shared with all the NQMs.</p> |
| | Item No.IV | <p>Revision of norms for STAs</p> <p>The matter will be put up for General Body for consideration/ratification</p> |
| | Item No.V | <p>Enhancement of PCI verification costs by third party under PMGSY – RRP-II</p> <p>The matter will be put up to GB for ratification</p> |
| | Item No.VI | <p>Ratification of use of services of empanelled advocate Shri Mayank Yadav for legal matters of NRRDA</p> <p>No further action required</p> |
| | Item No.VII | <p>Ratification of New Central public Information Officer (CPIO) and Women Welfare Officer (WWO) in NRRDA</p> <p>No further action required</p> |
| | Item No.VIII | <p>Follow up action on Internal Audit Report regarding overpayment submitted by the CCA, RD</p> <p>In the case of Shri Sunil Kumar Kukreja, the matter is sub judice.</p> <p>In other cases the matter is being processed on file.</p> |
| Item No.2 | <p>Ratification of Annual Report and Accounts of NRRDA duly audited for the period 2014-15 (Annexure B)</p> | |

| | |
|------------|---|
| Item No. 3 | <p>Delegation of Financial Power related to release of Advertisement and publication to Director (F&A)</p> <p>As per Bye-Laws of NRRDA Appendix I, (Page 80, item 8) Director General has the full power of Sanction for charges for advertisement and Publicity</p> <p>It is proposed that this power may be delegated to the Director for release of advertisement upto Rs20,000/-</p> |
| Item No.4 | Ratification of contract of retired personnel for approval of GB. |
| Item No.5 | <p>Scheme for Young Interns for approval of GB. (Annexe C).</p> <p>For ratification</p> |
| Item No.6 | <p>Extension of contract of young (civil) Engineers (Consultant) From the date of end of their previous contract:</p> <ul style="list-style-type: none"> • Shri Kiran Gowda from 08.10.2015 to 7.10.2016 • Shri Vasanth Reddy from 12.10.2015 to 11.10.2016 • Md. Hashim Khan from 25.9.2015 to 24.09.2016 <p>For ratification</p> |
| Item No.7 | Review of decision taken regarding the issue of Service Tax, based on legal opinion received in the matter. |
| Item No.8 | <p>MOU signed between C-DAC & NRRDA for establishment of computerized data base for core rural road network through development of web based Geographical Information System (GIS) linked to road condition inventories in 6 states in the first phase & subsequently in the entire country in the second phase. A copy of the MOU Annexed (Annexure D)</p> <p>For information</p> |
| Item No.9 | <p>Advertisements in various newspapers seeking application for various posts in NRRDA</p> <ul style="list-style-type: none"> • Director (Project) 1 post • Dy. Director(F&A) 1 post • Asstt. Director (Pro/Tech) 7 posts <p>Letters have also been issued to various departments of States. Last date for receiving application is 30th November, 2015 .</p> <p>For information</p> |
| Item No.10 | Tripartite MOU between NRRDA+IAHE+NIRD for conduct of training programmes. Annexure (E) |
| Item No.11 | Meeting of Rajbhasha Samiti and conduct of the Hindi Pakhwara (14-29th September, 2015) & Publication of Hindi magazine "Smarika" |

| | |
|-------------------|--|
| | <p>A meeting of official Language Implementation Committee, comprising of all the Directors of NRRDA was convened on 3.9.2015 to monitor the progress made in the use of Hindi in the Agency.</p> <p>The Hindi Pakhwada was organised during 14-29 Sept. 2015, during which various competitions including debate, essay writing, poetry etc. were held.</p> <p>For information</p> |
| Item No.12 | <p>Conduct of Vigilance Awareness (26th – 30th October, 2015) Week</p> <p>The Vigilance awareness week was organised during which pledge/oath was administered by the DG, NRRDA. An essay competition was also organised on the last day.</p> <p>For information</p> |
| Item No.13 | <p>Meeting of the Performance Evaluation Committee for evaluating the performance of NQMs</p> <p>A meeting of the Performance Evaluation Committee constituted for performance evaluation of the existing NQMs, was held during 1-4th September, 2015 :</p> <ol style="list-style-type: none"> 1. Performance evaluation of existing NQMs <p>The Committee evaluated the performance of 47 existing NQMs who conducted 20 or more inspections during the period January 2014-March, 2015. Observations of PEC about the 47 NQMs are as follows :</p> <ul style="list-style-type: none"> ➤ 14 NQMs who secured more than 75% marks were rated as Outstanding. These NQMs would continue to be retained in the NQMs panel. ➤ 23 NQMs who secured marks between 61-74% were rated as Satisfactory and would also continue to be retained in the NQMs panel. ➤ 4 NQMs who secured marks between 50-60% were rated as Marginal. These NQMs would be retained. However, their performance would be reviewed in the subsequent PEC meeting. ➤ 6 NQMs who secured marks less than 50% were rated as Unsatisfactory. These NQMs would be removed from the panel of NQMs. 2. Performance evaluation of NQMs rated as Marginal by the last PEC Meeting held during 14-16th May, 2014. <p>Cases of 5 such NQMs rated as Marginal in the previous PEC Meeting were placed for consideration before the PEC. The Committee after evaluation made the following observations</p> |

- 2 NQMs who secured more than 75% marks were rated as Outstanding and would continue to be retained in the panel of NQMs.
- 3 NQMs who secured marks between 61-74% were rated as Satisfactory and would also continue to be retained in the panel of NQMs.

3. Review of inspection reports of those NQMs whose reporting/Observations were not found in order.

One such case of Shri Ravinder Kumar, NQM, was placed before the Committee. Shri Kumar was deputed in December, 2013 for inspection of road works in Jharkhand. The NQM conducted inspection on 17th December, 2013 and graded one of the road works " Sugnu to Kaditoli" in Ranchi district as ' Satisfactory". The same road subsequently inspected by Shri N.C.Solanki, Chief Quality Coordinator (CQC), NRRDA alongwith Principal Secretary and Chief Engineer of the State on 27/28 December, 2013 i.e. after about 10 days, was observed as 'unsatisfactory' on all major items.

The matter with both the reports was placed before the PEC during its meeting held on 14-16th May, 2014. In view of the contradiction in the reporting, it was decided by the Committee that the road work may be got inspected through a team of two NQMs.

Accordingly, a team of two NQMs was deputed and the report placed before the PEC during its meeting held on 1-4 September, 2015.

PEC after consideration concluded that the report of first NQM (Shri Ravinder Kumar) grading the work as 'Satisfactory' is found to be unacceptable and that due diligence in quality assessment under the third tier of Quality Control Mechanism has not been adhered to by Shri Ravinder Kumar. The Committee therefore, proposed that the NQM may be considered for discontinuation.

The above observations of PEC have to be placed before the Selection Committee, constituted for the empanelment / de-empanelment of NQMs and performance evaluation of the existing NQMs.

This is for information at this stage. The matter will be again placed before the Executive Committee after

| | | | | | | | | | |
|--|--|------------------------------------|---------------------|-------------------------------------|------------|--|------------|------------------------|--------|
| | <p>recommendation of the Selection Committee.</p> <p>For information. The matter will be again placed before the Executive Committee after recommendation of the Selection Committee.</p> | | | | | | | | |
| Item No.14 | <p>Orientation and training programme on Mobile based application software for newly empanelled NQMs.</p> <p>An Orientation and training programme for 15 newly empanelled NQMs was held in the conference room of NRRDA on 14th October, 2015. These Orientation programmes aim, inter-alia, at:</p> <ul style="list-style-type: none"> • Systems and procedures followed under 3rd tier of quality monitoring • Sensitization about the critical issues concerning quality and • Roles and responsibilities associated with 3rd tier of the quality monitoring <p>For information</p> | | | | | | | | |
| Item No.15 | <p>Opening of new sub head Payment of Agency Fee to PSUs by the States in the Explanatory Notes on Chart of Accounts PMGSY Accounts Manual Programme Fund.</p> <p>For information</p> | | | | | | | | |
| Item No.16 | <p>Constitution of a Sexual Harassment Committee comprising the following :</p> <table> <tr> <td>• Ms. Shalini Das, Asstt. Director</td><td>President</td></tr> <tr> <td>• Sh. Rakesh Kumar, Asstt. Director</td><td>Member</td></tr> <tr> <td>• Mr. Deepak Ranjan, Asstt. Director, MoRD</td><td>Member</td></tr> <tr> <td>• Smt. Monica Advocate</td><td>Member</td></tr> </table> <p>(as a third party)</p> <p>For information</p> | • Ms. Shalini Das, Asstt. Director | President | • Sh. Rakesh Kumar, Asstt. Director | Member | • Mr. Deepak Ranjan, Asstt. Director, MoRD | Member | • Smt. Monica Advocate | Member |
| • Ms. Shalini Das, Asstt. Director | President | | | | | | | | |
| • Sh. Rakesh Kumar, Asstt. Director | Member | | | | | | | | |
| • Mr. Deepak Ranjan, Asstt. Director, MoRD | Member | | | | | | | | |
| • Smt. Monica Advocate | Member | | | | | | | | |
| Item No.17 | <p>Appointment of 2 new APIOs and Appellate Authority</p> <table> <tr> <td>• Ms. Anjali Singh, Director (F&A)</td><td>Appellate Authority</td></tr> <tr> <td>• Sh. Ashok Shah, DD(P-II)</td><td>APIO(P-II)</td></tr> <tr> <td>• Sh.H.S. Saini, AD(F&A)</td><td>APIO (F&A)</td></tr> </table> <p>For information</p> | • Ms. Anjali Singh, Director (F&A) | Appellate Authority | • Sh. Ashok Shah, DD(P-II) | APIO(P-II) | • Sh.H.S. Saini, AD(F&A) | APIO (F&A) | | |
| • Ms. Anjali Singh, Director (F&A) | Appellate Authority | | | | | | | | |
| • Sh. Ashok Shah, DD(P-II) | APIO(P-II) | | | | | | | | |
| • Sh.H.S. Saini, AD(F&A) | APIO (F&A) | | | | | | | | |

National Rural Roads Development Agency
Ministry of Rural Development, Government of India
5th Floor, NBCC Tower, Bhikaji Cama Place, New Delhi-66

Minutes of the 36th Meeting of the Executive Committee of the National Rural Roads Development Agency

The 36th meeting of the Executive Committee was held on 3rd August, 2015 in the Conference Hall, NRRDA, 5th Floor, 15 NBCC Tower, Bhikaji Cama Place, New Delhi. The meeting was chaired by Shri Rajesh Bhushan, Joint Secretary (RC) & Director General, NRRDA. The following members were present in the meeting:-

- I. Dr. Praveen Kumar, Professor, Transportation Engineering Section, Department of Civil Engineering, IIT, Roorkee, Uttarakhand.
- II. Dr. Ashok Kumar Sarkar, Dean Faculty Div-I, Department of Civil Engineering Birla Institute of Technology & Science, Pilani- 333031, Rajasthan
- III. Dr. M.S. Amarnath, Professor, Civil Engineering Department, Jnanabharathi campus, Bangalore University, Bangalore- 560056 (Karnataka)
- IV. Dr. I.K. Pateriya, Director (Technical), NRRDA, New Delhi
- V. Ms. Anjali Singh, Director (F&A), NRRDA, New Delhi.
- VI. Shri R. Basavaraja, Director (P-II), NRRDA, New Delhi

2. The Chairperson welcomed the members and initiated the meeting.
3. The proceedings of the meeting are as follows:-

| Item No. | Discussion and Decisions | Action by |
|-------------------|---|-----------|
| Item No. 1 | Confirmation of the proceedings of the 35th meeting of the Executive Committee and action taken thereon | |
| | Director (F&A) informed that the Minutes of the 35 th Meeting, held on 14 th July 2014, were circulated to the members and no comments were received from any of the members of the Executive Committee. The Executive Committee confirmed the proceedings of the 35 th meeting. | |

| | | |
|-------------------|--|--|
| | <p>The Executive Committee discussed the action taken on the decisions of the 35th Meeting. The Committee noted that out of 10 items, action had been taken on 9. Action was pending on Point No.8 NRRDA Internship Scheme for Young Professionals. DG, NRRDA directed that the base document with regard to the proposal be shared with Executive Committee members for their suggestion, before a final view is taken. The Committee members were of the view that the Internship Scheme and the proposal for recruitment of Young Engineers in NRRDA, should be kept separate.</p> | |
| Item No.II | Consideration of the recommendation of the 16th,17th, & 18th Selection Committee Meetings for Empanelment of New NQMs. | |
| | <p>The Committee considered the recommendations of the 16th,17th and 18th Selection Committee meetings for Empanelment of new NQMs. The Committee noted that out of a total of 85 applicants, whose applications were received, 23 candidates were clearly recommended for empanelment as NQMs by the Selection Committee, 28 candidates were recommended subject to receipt of State Government's recommendations/ their Pension papers. In the case of 14 candidates various details like road sector experience, etc. were wanting and 20 candidates were not recommended on account of non-fulfilment of selection criteria. The Executive Committee was informed by Shri B.R.Dhameja, Dy.Director (P-III) that since the meeting of the 18th Selection Committee, requisite recommendations/pension papers have been received in respect of 20 candidates. Similarly, out of 14 candidates requiring details, requisite details have been received in 10 cases. The selection committee's recommendations were ratified by the Executive Committee.</p> | |

| | | | | | | | | |
|---|--|--|--------------------|--------------------------|---|---|--|--|
| | Chairperson DG, NRRDA noted that the Performance Evaluation Committee Meeting for existing NQMs needs to be held early. He observed that there has been an inordinate delay in holding such a meeting as the last meeting was held in December, 2014. He directed that the next meeting be held on priority. | | | | | | | |
| Item No.III | Consideration of the phase II of Citizen Monitoring of Rural Roads under PMGSY – RRP-II. | | | | | | | |
| | The Committee while considering the proposal decided that the role of PAC should be clearly defined in such a way that it should not overlap with the mandates of the existing inspection Authorities/bodies. The Committee also decided that the PAC should identify those roads where appreciable work has been done. It was further decided that the report of the Public Affairs Centre (PAC) should be shared with NQMs. | | | | | | | |
| Item No.IV | Consideration of the proposed revised norms (alongwith justification for the same) for STAs. | | | | | | | |
| | <p>The Committee considered the proposal for revising the norms for STAs and the criteria for their Performance evaluation. The Committee accepted the increase proposed in the honorarium as given below :</p> <table border="1"> <tr> <td>Rs. 5-150 Crores</td><td>Rs. 151-200 Crores</td><td>Rs. 201 Crores and above</td></tr> <tr> <td>0.045% subject to a minimum of Rs. 50,000</td><td>0.03375% subject to a minimum of Rs. 2,50,000</td><td>0.0225% subject to a minimum of Rs. 6,00,000</td></tr> </table> <p>The breakup of the remuneration to each STA is as follows:</p> <p>a) Up to Rs. 30,000 towards Contingencies for the Coordinator STA, based on actual.(Presently Rs. 20,000/-)</p> <p>b) Out of the remaining amount, 30% is for the institutional</p> | Rs. 5-150 Crores | Rs. 151-200 Crores | Rs. 201 Crores and above | 0.045% subject to a minimum of Rs. 50,000 | 0.03375% subject to a minimum of Rs. 2,50,000 | 0.0225% subject to a minimum of Rs. 6,00,000 | |
| Rs. 5-150 Crores | Rs. 151-200 Crores | Rs. 201 Crores and above | | | | | | |
| 0.045% subject to a minimum of Rs. 50,000 | 0.03375% subject to a minimum of Rs. 2,50,000 | 0.0225% subject to a minimum of Rs. 6,00,000 | | | | | | |

overheads.

- c) Balance amount is the honorarium for the members of the STA including Coordinator, as recommended by the STA Coordinator based on the contribution of the individual members.

The Committee also approved the following Performance Evaluation criteria for STAs :-

| Marks obtained in Performance Evaluation | Grade | Proposed Revised Remuneration |
|--|-------|-------------------------------|
| 81-100 | A | 100% |
| 61-80 | B | 90% |
| 50-60 | C | 80% |
| <50 | D | 50%* |

- The Committee agreed that the STAs who obtain 'D' grade may be continued for current year. However, if such STAs do not improve their grade following the year in which 'D' has been given; they may be recommended for discontinuation.

The Committee also noted the need to incorporate the additional issue of "cost economy" in the criteria for evaluating STA's.

Item No.V Consideration of the proposed enhancement of PCI verification costs by third party under PMGSY – RRP-II

The proposal for PCI verification for Core Network length as given below was approved by the Committee :

- About 10% of Core Network length may be cross verified by the third party i.e. STA/PTA/Consultants by using visual observations.

| | | |
|----------------------|--|--|
| | <p>2. About 1 to 2% of the Core Network length may be cross verified by the third party i.e. STA/PTA/Consultants by using equipments.</p> <p>The Committee noted the need for fixation of the rate for PCI verification and approved the following rates for PCI verification by third party :-</p> <ol style="list-style-type: none"> 1. Cross Verification of PCI data by visual observations about Rs. 400/Km. 2. Cross Verification of PCI data by using roughometer/ or Bump intergrator : Rs. 1000/Km. | |
| Item No.VI | Ratification of use of services of empanelled advocate Shri Mayank Yadav for legal matters of NRRDA. | |
| | The Committee accepted the proposal for the use of services of Shri Mayank Yadav who is listed at Serial No.42 of the Order dated 30.12.2014 issued by Ministry of Law & Justice, Department of Legal Affairs, Govt. Of India, to be engaged as Govt. Counsel, for the legal matters of NRRDA. | |
| Item No. VII | Ratification of New Central Public Information Officer (CPIO) and Women Welfare Officer (WWO) in NRRDA. | |
| | The Committee noted and approved the appointment of Shri P. Mohanasundaram, Jt.Director (Tech.) as new Central Public Information Officer and Ms. Shalini Das, AD(Tech.) as Women Welfare Officer in NRRDA. | |
| Item No.VIII. | Follow up action on Internal Audit Report regarding overpayment submitted by the O/CCA, RD. | |

| | | |
|-------------------|---|--|
| | The Committee decided that NRRDA's response be sent to the Office of CCA for their consideration. | |
| Item No.IX | Complaint against NQMs | |
| | <p>The Committee was also apprised by Dy.Director(P-III), of the action taken with regard to NQM's against whom complaints/CBI enquiries were initiated. The information is as under :-</p> <ol style="list-style-type: none"> 1. Shri Shailendra Kumar – CBI Case registered, de-empanelled. 2. Shri R.P.Birla, - FIR filed on the ground of money being allegedly demanded from the contractor, further assignment to him stopped. 3. Shri Shikherchand Jain – Money allegedly demanded from PIU but not paid. No FIR filed. On the basis of information received, NRRDA stopped further assignment. <p>The Committee noted the above.</p> | |

The meeting ended with the vote of thanks to the Chair.

Annual Report- 2014-15

1 INTRODUCTION

1.1 Roads are arteries of the nation and provide the much needed infrastructural push for social and economic growth. 69 percent of Indian population lives in rural areas, therefore, rural road connectivity is a key component for strengthening of rural livelihoods and holistic development of the nation. It provides a fillip to rural development by promoting access to social and economic services and helps in generating increased agricultural incomes, providing better employment opportunities and access to health, educational and market facilities.

1.2 Accordingly, rural road connectivity is a key ingredient in ensuring sustainable poverty reduction. The Central and State Governments have initiated various programmes to provide sustainable connectivity to the rural habitations in the country.

Though rural roads is a State subject, Government of India, recognizing importance of rural road connectivity, launched Pradhan Mantri Gram Sadak Yojana (PMGSY), as a fully funded centrally sponsored programme on 25th December, 2000. The programme has the primary objective of providing single All Weather Road Connectivity to habitations with a population of 500 and above (as per 2001 census) in plain areas. In respect of the Hill States (North-East, Sikkim, Himachal Pradesh, Jammu & Kashmir, Uttarakhand), the desert areas (as identified in the Desert Development Programme), the Tribal (Schedule-V) areas and in Left Wing Extremism affected/ Integrated Action Plan (IAP) districts as identified by the Ministry of Home Affairs/Planning Commission, the objective is to connect habitations with population of 250 and above (as per 2001 census).

1.3 In the year 2000 nearly 40% of habitations were not connected by All Weather Roads. Subsequent to launching of PMGSY, systematic preparation of District Rural Roads Plan (DRRP) and identification of the Core Network was carried out. The Core Network ensures single All Weather Connectivity to all the eligible habitations. As a result of this planning exercise 1.59 lakh habitations (excluding habitations covered under State schemes) were targeted for New Connectivity with an estimated road length of 3.93 lakh km and a length of about 3.73 lakh km of existing roads for upgradation. Further, after recent approval by the cabinet for inclusion of Left out habitations of 500 and above population in general plain areas and of 250 and above in Schedule-V (other than 82 IAP) and BADP, Hill states, Dessert Areas, and additional unconnected habitations of 250+ in Arunachal Pradesh in respect of the International Border districts, in original Core Network, the number of total eligible unconnected habitations under PMGSY as per 2001 census becomes 1,78,184.

1.4 The National Rural Roads Development Agency (NRRDA) was established on 14th January, 2002 under the Societies Registration Act – XXI of 1860. The basic objective of NRRDA is to extend support to the programme implementation through advice on technical specifications, project appraisal, quality monitoring and management of monitoring systems. With a view to support the Ministry, the Agency is a compact, professional and multi-disciplinary body for providing technical and management support for effective implementation of the programme.

2. OBJECTIVES OF NRRDA

The National Rural Roads Development Agency was set up primarily with the following objectives:

- (i) To discuss with different Technical Agencies and arrive at appropriate Designs and Specifications of Rural Roads and thereafter to assist the Ministry of Rural Development in prescribing the Designs and Specifications of Rural Roads, including Bridges and Culverts.

- (ii) To determine the tasks to be performed by the Principal Technical Agencies and State Technical Agencies.
- (iii) To appoint reputed Technical Institutions as Principal Technical Agencies and State Technical Agencies to perform the tasks to be entrusted to them.
- (iv) To render assistance to States or Union Territories in preparing District Rural Roads Plans.
- (v) To scrutinize or arrange to scrutinize the proposals received from States and Union Territories for consideration by the Ministry of Rural Development.
- (vi) To oversee and inspect or arrange to inspect through Independent Monitors, the execution of the road-works cleared by the Ministry and being implemented by States or Union Territories through their Executing Agencies.
- (vii) To appoint serving or retired Engineers, Academicians, Administrators and other Agencies, with experience in Rural Roads, as Independent Monitors to ensure proper execution of road works by the State Agencies.
- (viii) To monitor the progress of the road-works with particular reference to time frame for completion, Technical Specifications, Project Appraisal and Quality Control methods.
- (ix) To set up an "On-line Management and Monitoring System", incorporating both intranet and internet-based system, for obtaining updated information to facilitate a ready viewing and screening of data.
- (x) To send periodic reports to the Ministry of Rural Development on the progress of implementation of road works by the States or Union Territories.
- (xi) To monitor the planning for and plantation of fruit bearing and other suitable trees on both sides of the rural roads undertaken by the States or Union Territories, under the Pradhan Mantri Gram Sadak Yojana.

- (xii) To monitor the expenditure incurred by the States or Union Territories in implementation of the Pradhan Mantri Gram Sadak Yojana, with reference to the funds released by Ministry of Rural Development through expenditure reports obtained from the States or Union Territories and through 'On-line Management and Monitoring System'.
- (xiii) To take up research activities relating to Rural Roads, including execution of Pilot Projects.
- (xiv) To study and evaluate different Technologies in respect of Rural Roads and to take up pilot projects involving different technologies.
- (xv) To enter into collaboration with Institutions, Agencies or Bodies of repute, both national and international, in respect of Rural Roads.
- (xvi) To arrange suitable Training Programmes for officers of the Ministry as well as the State Governments or Union Territories concerned with the implementation of the Rural Roads Programme in reputed institutions.
- (xvii) To advise on measures to improve the Quality and Cost-norms of the Rural Roads.
- (xviii) To publish books, literature, take up or arrange for production of publicity material, print, audio or audio-visual in respect of the Pradhan Mantri Gram Sadak Yojana.
- (xix) To organise and sponsor Workshops and Seminars in respect of Rural Roads.
- (xx) To purchase, lease and hire equipment or machinery required in the construction of rural roads.
- (xxi) To take up such activities as necessary to further the objective of the Programme and assist the Ministry of Rural Development in Planning and Implementation of the Pradhan Mantri Gram Sadak Yojana and such other related Programmes as may be taken up.

3. ORGANISATIONAL ARRANGEMENTS

3.1 The General Body of NRRDA comprises a maximum of 21 members. These include representatives of Central Government, State Governments or any other Government authority as Ex-officio Members, registered bodies, institutions engaged in any activity connected with rural roads or any of the

objectives of the National Rural Roads Development Agency and persons possessing special expertise, ability or experience relevant to the furtherance to the objectives of the Agency.

Hon'ble Minister for Rural Development is ex-officio President and Secretary, Rural Development is ex-officio Vice- President of NRRDA. The General Body of the NRRDA was as under during the period under report i.e. financial year 2014-15:-

| No. | Name | Occupation & Address | Designation in NRRDA |
|-----|--|---|----------------------------------|
| 1. | Shri Chaudhary Birender Singh Shri Jairam Ramesh (Till 25.2.2014) Shri Gopinath Munde (27.5.2014-03.06.2014) Shri Nitin Gadkari (Addl.charge) (03.06.2014-09.11.2014) | Minister of Rural Development Government of India, Krishi Bhavan, New Delhi, | President (ex-officio) |
| 2. | Shri J.K. Mohapatra ¹ | Secretary, Ministry of Rural Development, Government of India, Krishi Bhavan, New Delhi | Vice – President (ex-officio) |
| 3. | Smt. Seema Bahuguna | Additional Secretary & Financial Advisor, Ministry of Rural Development, Government of India, Krishi Bhavan, New Delhi | Member ex- officio |
| 4. | Shri Rajesh Bhushan | Joint Secretary, Ministry of Rural Development, Government of India, Krishi Bhavan, New Delhi | Director- General |

¹ Shri L.C. Goyal upto 5.2.2015, Smt Vandana Kumari Jena from 5.2.2015 to 1.3.2015

| | | | |
|-----|--------------------|---|-----------------------|
| 5. | Smt. Manju Rajpal | Dy. Secretary(RC) Ministry of Rural Development, Government of India, Krishi Bhavan, New Delhi | Member Ex-officio |
| 6. | Dr. Manoj Singh | Adviser (Transport), Room No. 264, Yojana Bhavan, Planning Commission, New Delhi | Member Ex-officio |
| 7. | Shri Dinesh Sharma | Additional Secretary, Department of Economic Affairs, Ministry of Finance, Government of India | Member Ex-Officio |
| 8. | Shri S.N. Das | Director General (RD) & Special Secretary, Ministry of Road Transport and Highways, Transport Bhawan, Parliament Street, New Delhi | Member Ex- officio |
| 9. | Shri Debasis Pal | Dy.Secretary, BRGF,Min.of Panchayati Raj, Krishi Bhawan, New Delhi | Member Ex-officio |
| 10. | Shri S.Siddarth | Principal Secretary Government of Bihar,Rural Works Department, 5th Floor, Vishveshvaraiya , Bhavan, Bailey Road, Patna, Bihar | Member |
| 11 | Shri M.K. Raut | Principal Secretary, Panchayat & Rural Development Department Government of Chhattisgarh, Mantralaya, Raipur- 492001, Chhattisgarh | Member |
| 12. | Ms. Tanveer Jehan | Commissioner-Secretary Public Works Department(Roads & Buildings), Government of | Member |

| | | | |
|-----|---------------------|---|--------|
| | | Jammu & Kashmir, New Secretariat | |
| 13. | Shri S.K. Satpathy | Principal Secretary cum CEO, Rural Development Department, Ground Floor, SSP Building, HEC Building Campus, Ranchi-Jharkhand | Member |
| 14. | Shri James Varghese | Principal Secretary, Deptt. of Local Self Govt., Government of Kerala, Govt. Secretariat, Annexed Building Thiruvananthapuram | Member |
| 15. | Shri M.M. Sun | Secretary PWD Public Works Department (R&B), PWD Complex, Government of Meghalaya, Lower Lachumiere Shillong (MEGHALAYA) | Member |
| 16. | Dr. S. Gangopadhyay | Director, Central Road Research Institute, CRRI, Delhi-Mathura Road, New Delhi. | Member |
| 17. | Shri Sunil Bhowmic | President, IRC, Sector - 6, Near RBI Colony, Kamakoty Marg, R.K. Puram, New Delhi | Member |
| 18 | Dr Ajay Kumar | Director General, National Informatics Centre, 3rd Floor NIC Head Quarter, A Block, CGO Complex, Lodhi Road, New Delhi | Member |
| 19 | Shri SS Gabryal | Director General, Ministry of Environment and Forests | Member |
| 20 | Prof. P.K.Sikdar | Intercontinental Consultants & Technocrats Pvt. Ltd., A-8, Green Park, New Delhi | Member |

Shri R.C. Sinha, Prof. Satish Chandra, Prof. A. Veeraraghavan and Prof. K. Sudhakar Reddy have been associated as special invitees in the meetings of the General Body.

During the year 20th meetings of General Body was held on 19th December 2014. The meetings were chaired by Shri L.C Goyal, Secretary (Rural Development) & Vice President of NRRDA. In the meetings, besides review of the activities of NRRDA, the Annual Report of NRRDA for the year 2013-14 was approved, the audited Accounts of NRRDA for the year 2013-14 were adopted and the budget of NRRDA - Revised Estimates for 2014-15 and Budget Estimates for 2015-16 of NRRDA was passed.

3.2 The Rules and Regulations of the NRRDA further state that there shall be an Executive Committee of the Agency. The Executive Committee of the NRRDA comprises Director-General, NRRDA as the ex-officio Chairman and upto seven Members appointed by the President of NRRDA. The Committee is vested with all executive and financial powers of the Agency subject to such directions as may be issued by the Government of India and General Body from time to time. The Executive Committee of the NRRDA was as under during the period under report i.e. financial year 2014-15:

| No. | Name | Occupation & Address | Designation in NRRDA |
|-----|----------------|--|-----------------------------------|
| 1. | Rajesh Bhushan | Joint Secretary (RC) & Director General (NRRDA), Ministry of Rural Development, Government of India, Krishi Bhavan, New Delhi. | Director- General (ex-officio) |

| | | | |
|----|---------------------------------|--|--------|
| 2. | Dr. Praveen Kumar | Professor, Transportation Engineering Section, Department of Civil Engineering, IIT, Roorkee | Member |
| 3. | Dr. M.S. Amarnath | Civil Engineering Department, Jnanabharathi campus, Bangalore University, Bangalore- 560056 (Karnataka) | Member |
| 4. | Dr. Ashoke Kumar Sarkar | Dean Faculty Div-I, Department of Civil Engineering Birla Institute of Technology & Science, Pilani, Rajasthan | Member |
| 5. | Prof. K. Sudhakar Reddy | Professor, Civil Engineering, Indian Institute of Technology Kharagpur, West Bengal | Member |
| 6. | | Director(Finance) Ministry of Rural Development, Krishi Bhawan, New Delhi | Member |
| 7. | Dr. I.K. Pateriya | Director (Technical), NRRDA, New Delhi | Member |
| 8. | Shri R. Basavaraja ² | I/C Director (F&A), NRRDA, New Delhi | Member |

3.3 The Organisational Structure as approved by the General Body consists of 5 Divisions. The present deployment is given at **Annexure I**. Joint Secretary (RC), Ministry of Rural Development is the ex-officio Director General of NRRDA. The following officers and staff were in position on deputation basis during 2014-15:

1. Dr. I.K. Pateriya, Director (Tech & P-II)
2. Shri N.C. Solanki³, Director(P-I)
3. Shri Chaman Lal, Director(P-III)
4. Shri R. Basavaraja, Director(P-II/F&A)

² Joined on 01.08.2014

³ Till 31.08.2014

5. Shri Sunil Kukreja, Joint Director(F&A)
6. Smt. Madhvi Vedula⁴, Assistant Director (Tech)
7. Shri C.P. S. Yadav, Assistant Director (Project-I)
8. Shri Rakesh Kumar, Assistant Director (Project-III)
9. Shri Shailender Kumar Dube⁵, Assistant Director(Tech)
10. Shri Toofeeq Ahmad Chishti, Assistant Director(Tech)
11. Shri R.K. Bhatt, Assistant Director (F&A)
12. Shri Kulwant Singh, Driver

Other positions of officers and staff were managed by engaging personnel through manpower service provider agencies. Routine functions are outsourced to service provider agencies.

4. PRADHAN MANTRI GRAM SADAK YOJANA

4.1 Planning

4.1.1 District Rural Roads Plans and Core Network:- The District Rural Roads Plan consists of the entire existing road network system in the District and also clearly identifies the proposed roads for providing connectivity to Unconnected Habitations in an economic and efficient manner in terms of cost and utility. The Core Network is that network of rural roads which is essential to provide basic single all weather access to all habitations. Basic access is defined as the single all weather road connectivity to a habitation. The Core Network consists of existing roads as well as roads to be constructed to eligible un-connected habitations.

4.1.2 All State Governments have to prepare District Rural Road Plans and identify the Core Network for planning under the PMGSY. The final Core Network data has been received from all the States. However, some States have expressed the need to review the Core Network for modifications in the structure or changing the connectivity status of habitations after preparation

⁴ Till 22.07.2014

⁵ Till 10.08.2014

of a thorough inventory and ground truthing. Some States have taken clearance for ground truthing and accordingly made requisite changes in Core network. Some States have revised the Core Network taking habitation as unit of connectivity instead of village (which was the case earlier for such States).

4.2 Technical Support

4.2.1 Principal Technical Agencies:- Seven Principal Technical Agencies (PTAs), including Indian Institutes of Technology(IIT) and other premier technical institutions have been appointed to provide technical support and take up research projects, studies and evaluate different technologies and advise on measures to improve the quality and cost norms of Rural Roads. List of PTAs is at **Annexure II**.

4.2.2 State Technical Agencies: - Engineering Institutions of repute have been appointed as State Technical Agencies upon the recommendation of the State Governments and certain pre-fixed qualification parameters. The State Technical Agencies (STAs) scrutinise the project proposals prepared by the State Governments and provide technical support to them. The scrutiny by the STAs expedites the process of project clearance, establishes a certain degree of technical discipline and rigour in the implementation of PMGSY at the same time and is administratively convenient for State authorities. List of State Technical Agencies (STAs) as on 31.3.2015 is at **Annexure-III**.

4.3.1 Project Scrutiny and Clearance:

The detailed project proposals are prepared by the States and after approval by the State Technical Agencies, are forwarded to NRRDA. NRRDA carries out test check and further scrutiny to ensure that the proposals have been prepared keeping in view the Programme Guidelines. These scrutinised proposals are placed before the Empowered Committee for consideration. Proposals amounting to Rs 2355.77 crores were examined and cleared by the

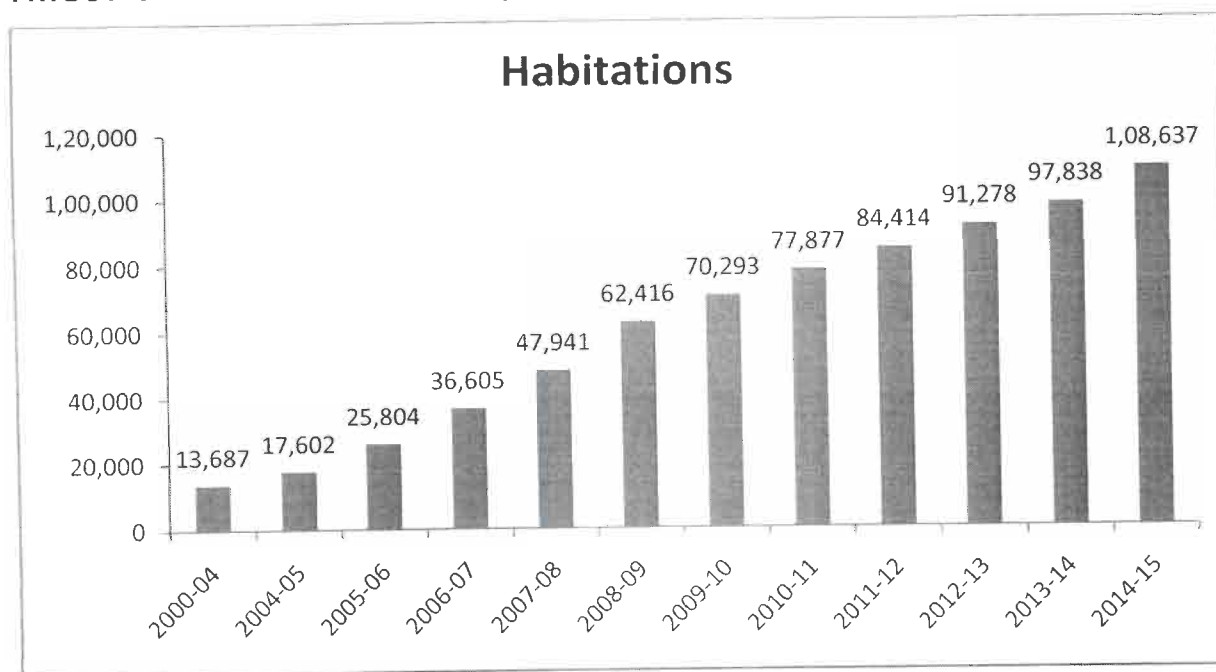
Empowered Committee during 2014-15. The State wise details are in **Annexure IV**.

4.3.2 Physical Achievements

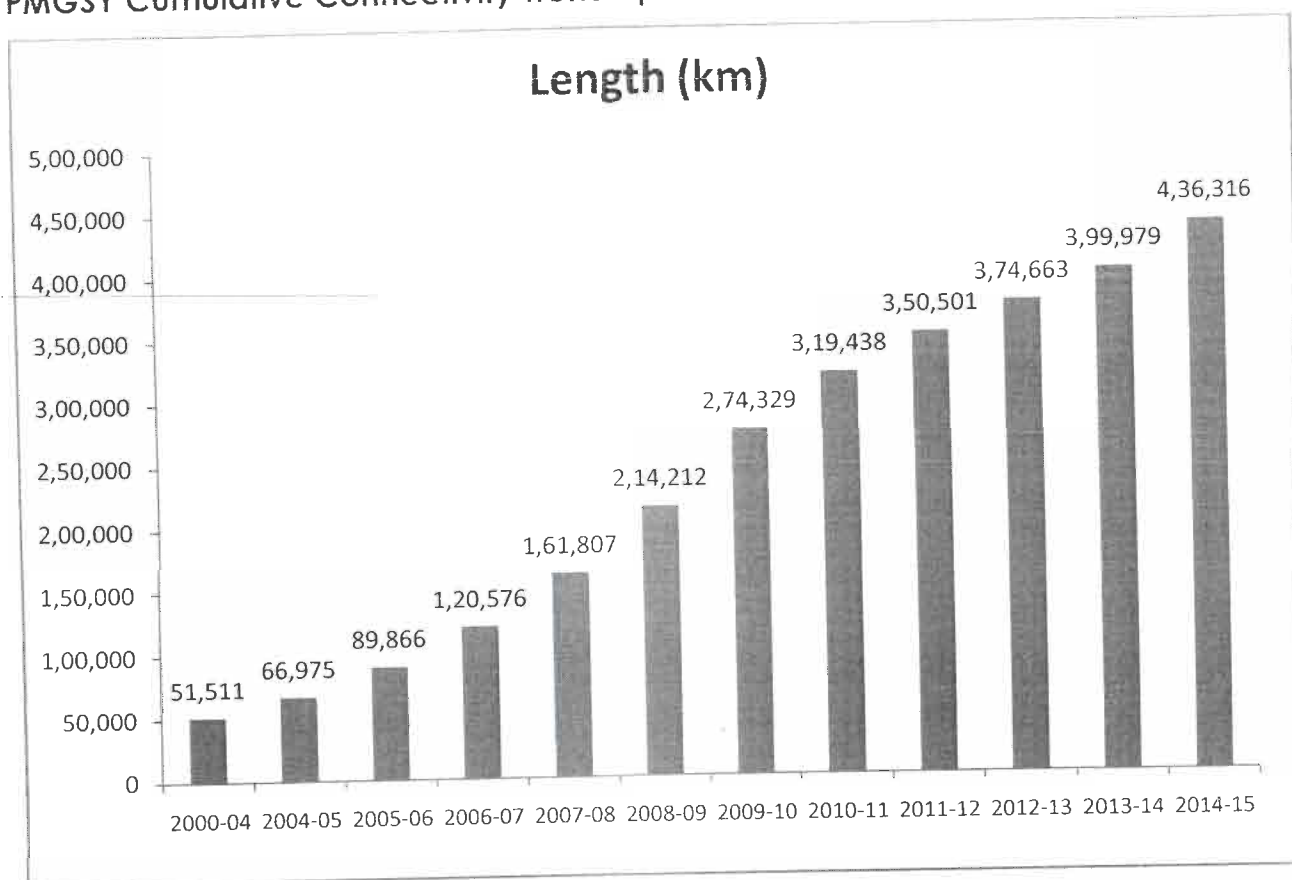
Since the inception of the Programme, 1,08,637 habitations have been connected by all weather roads measuring 4,36,316 km length of New Connectivity and Up-gradation upto **31st March 2015**.

During the year under report 10,799 habitations have been connected by all weather roads measuring 36,337 km length of New Connectivity and Up-gradation. The State-wise details are given at **Annexure V & VI**.

PMGSY Cumulative Connectivity Trend upto 2014-15



PMGSY Cumulative Connectivity Trend upto 2014-15



4.4 Maintenance of Roads Constructed under PMGSY

A mandatory provision for five years post construction maintenance contract along with the construction contract had been introduced from the year 2003 to ensure sustainability of the road assets created under the Programme. To ensure that the maintenance activities receive due attention in States, a mechanism has been evolved wherein the release of programme funds to the States has been made contingent upon release of Maintenance Funds by the respective State Governments to the SRRDAs bank accounts. The Ministry is also monitoring the availability of maintenance funds and the expenditure by the States. A special Module in OMMAS has also been incorporated to monitor the requirement of Maintenance Fund as per commitment of the State and expenditure on each road. State I.T Nodal Officers and Financial Controllers have been imparted training to ensure that this Module is kept updated by all States. States are also being encouraged to put in place a State specific Rural Roads Maintenance policy.

4.5 Participation in International Seminars/ Conference/Meetings

Officers from the Ministry of Rural Development, National Rural Road Development Agency and State Government participated in the following events during the period 2014-15 :

(i) International Road Federation (IRF) General Assembly Meeting, Board Meeting and Seminar on "Road Safety, Sustainable Development & Financing" at Paris, France during 16 -17 April, 2014.

The discussions in the Seminar included deliberation upon critical issues of Road Safety such as "Development of Safe and Sustainable Roads – Use of Technology and Education" and "Road Financing". Internationally renowned Experts / Speakers and their latest knowhow and the best practices with proven outcomes, explored the use of technology for managing traffic and safety enforcement issues, among others.

A three member delegation led by Dr. I.K. Pateriya, Director (Technical), NRRDA, Shri Arun Singhal, Principal Secretary, Rural Development Department, Government of Uttar Pradesh and Shri J.C. Mohanty, Principal Secretary, Public Works Department, Government of Rajasthan participated in the Seminar.

(ii) Senior Road Executive Programme 2014 at Birmingham, UK during 30 June to 5 July, 2014 – Module - Road Safety & Road Maintenance Management

The Senior Road Executive programme aim at providing professional development for those working in the road sector and dissemination of knowledge and expertise throughout the world. The programmes are designed to advance global understanding through an inter-disciplinary approach of the most pressing issues facing the road sector. The Programme provide a unique forum for debate and discussion with experts and fellow delegates, enabling managerial and technical concepts to be ...

From India, a three member delegation, as per details given below, participated in the programme:

- (i) Shri P. Manoj Kumar, Director (PMGSY), Ministry of Rural Development.
- (ii) Shri Ninganung Lungleng, Superintending Engineer-I, Manipur State Rural Roads Development Agency, Government of Manipur.
- (iii) Shri P.K. Pradhan, Chief Engineer, Odisha Rural Roads Development Agency, Government of Odisha.

(iii) ADB sponsored Overseas Study Tour Programme for Engineers and other related officials engaged in the construction of rural roads in ADB States to Australia during 15 -24 August, 2014

An Overseas Study Tour Programme in Australia for ADB States, aimed at study of International Best Practices, was organised by ADB during 15-24 August, 2014.

A 13 member delegation as per details given below, participated in the study tour:

- i. Shri Nirmal Chandra Solanki Director (Projects), NRRDA
- ii. Shri Yangesh Sunder Dwivedi Director (RC), MoRD
- iii. Shri Jitender Malik, US (ADB), DEA
- iv. Shri Kalyan Chandra Hazarika Chief Engineer PWD (Roads), Assam
- v. Shri Manmath Kumar Raut, Principal Secy., (P&R), Chhattisgarh
- vi. Shri Sudhir Kumar Agarwal, CEO, CRRDA, Chhattisgarh
- vii. Shri Hiranmoy Sen, Supdg. Engineer, (P&R), Chhattisgarh
- viii. Mrs. Alka Upadhyay, CEO, MPRRDA, Madhya Pradesh
- ix. Shri Vijay Kumar Gupta, General Manager, MPRRDA, MP
- x. Shri Hemanta Kumar, Sadangi Chief, Engineer, RWD, Odisha
- xi. Shri Himansu Kumar Acharya Supdg. Eng. RWD, Odisha
- xii. Shri Tapabrata Ghosh, Supdg. Eng. (PR&RD), West Bengal
- xiii. Shri Samir Kumar Nath, Executive Eng. (PR&RD), West Bengal

(iv) Participation in the Rural Roads Course at Birmingham, UK during 15 -19 September, 2014

University of Birmingham, UK organized a 'Rural Roads Course' during 15 -19 September, 2014 and invited a delegation of senior professionals in the road sector to participate in the Rural Roads Course covering the topics of Access, Growth and Development at Birmingham University, UK.

From India, a three member delegation, details given below, participated in the programme:

- (i) Shri P.R. Patelia, Chief Engineer, (Panchayat) & Additional Secretary, Roads & Building Department, Government of Gujarat.

- (ii) Shri Aijaz Hussain, Superintending Engineer, Panchayat Raj Engineering Department, Bellary, Govt. of Karnataka.
- (iii) Shri Thinlay Passang Shangderpa, Addl. Chief Engineer, Rural Management & Development Department, Govt. of Sikkim.

(v) Nepal Infrastructure Summit on 11-12 November, 2014 at Kathmandu, Nepal

The Confederation of Nepalese Industries, Govt. of Nepal, Investment Board, Nepal, Youth Community for Nepalese Contractors in association with FICCI and other National level agencies organized a Nepal Infrastructure Summit at Kathmandu, Nepal during 11-12 November, 2014.

The Summit facilitated in-depth discussions on infrastructure development covering areas like tourism infrastructure, energy, transportation, agriculture & urban infrastructure. Special session was organized in the summit on rural roads and the potential of mutual cooperation between India & Nepal in this sector.

Shri Rajesh Bhushan, Joint Secretary (RC) and Director General, NRRDA participated in the Summit.

(vi) Good Project Implementation Forum from 24-26 November, 2014 at ADB Headquarters, Manila, Philippines

Good Project Implementation Forum aimed at bringing together project teams of successful ADB projects, including Executing Agencies, ADB HQ and RM staff. Showcasing successful projects implemented by ADB across the region also formed part of the Forum.

A four member delegation sponsored by ADB, from India, participated in the Forum as per details below:

- (i) Shri S.K. Satapathy, Principal Secretary, State Government of Jharkhand
- (ii) Shri N.C. Solanki, Director, National Rural Roads Development Agency (NRRDA), Ministry of Rural Development, Government of India
- (iii) Shri A.D. Kapaley, Chief Engineer, Government of Madhya Pradesh
- (iv) Shri M.L. Haldkar, Chief Engineer, State Government of Chhattisgarh.

5. QUALITY ASSURANCE MECHANISM UNDER PRADHAN MANTRI GRAM SADAK YOJANA

To bring execution of the programme to the desired high quality standard, PMGSY envisages a three tier Quality Assurance Mechanism to ensure quality of road works during construction. The first two tiers of the structure are the responsibility of the respective State Governments and under the third tier, NRRDA engages independent National Quality Monitors (NQMs) for inspections of the road works under the programme.

Ensuring the quality of road works is primarily the responsibility of the State Governments who are implementing the programme. NRRDA has issued general guidelines and prescribed quality control hand books to regulate the quality control process at works level. Guidelines have also been issued for inspections of works by independent monitors under the second and third tier of the quality assurance mechanism. Based on the experience gained, these guidelines have been reviewed and revised from time to time. Further to make the inspections trustworthy, it is being ensured that independent monitors at the second and the third tier take atleast 10 digital photographs including one of the field laboratories, for each work and upload it on OMMAS website to facilitate public viewing of quality of road works executed under the programme.

The first tier of the Mechanism is in-house Quality Control of Programme Implementation Unit (PIU). Under the 1st tier of quality control mechanism, the quality standards are enforced through in-house mechanism by establishing field laboratories and carrying out mandatory tests. In addition, to augment the field laboratories for non-frequent tests, State laboratories and district laboratories have been endeavoured to be established in all States. As per the Programme Guidelines, a site quality control laboratory has to be set up by the contractor for each package. Payments are not made to the contractors unless the laboratory has been duly set up, equipped and certified by the field engineers.

Under the second tier, independent monitoring of quality at the State level has been prescribed under the control and supervision of SRRDA. The SRRDA is required to monitor the quality of works by deploying quality monitors, independent of the implementing units and uploading the abstract of quality grading along with photographs in OMMAS. These quality monitors would check the establishment of field laboratories also. As per guidelines, it is to be endeavoured that each road work is inspected by the State Quality Monitors atleast three times. The first two inspections of every work should be carried out during the execution of work spaced at least three months apart

and the last inspection is to be carried out on the completion of every work, as soon as possible but preferably within 4 months of completion of the work. During the year 2014-15 (upto March, 2015), a total number of 28,478 inspections (both ongoing & completed works) have been conducted by SQMs, as per details given below:

| Completed Works | | | | | Ongoing Works | | | | |
|-----------------|-----|-----|----|----|---------------|------|------|-----|-----|
| T | S | SRI | U | U% | T | S | SRI | U | U% |
| 409 | 317 | 61 | 31 | 7% | 4214 | 2638 | 1113 | 463 | 11% |

The third tier of the quality mechanism is an independent monitoring mechanism at the central level. Under this tier, retired senior engineers termed as National Quality Monitors (NQMs) are engaged for inspections of road works and guidance to the field engineers. The works for inspection are selected at random. The basic objective of this tier is to identify systemic issues in quality assurance mechanism of the State and provide on-site guidance to field staff for better understanding of specifications and good construction practices. During the year 2014-15 (upto March, 2015), a total number of 4,623 inspections (both ongoing & completed works) have been conducted by NQMs as per details given below:

| Completed Works | | | | | Ongoing Works | | | | |
|-----------------|------|-----|-----|----|---------------|-------|------|------|----|
| T | S | SRI | U | U% | T | S | SRI | U | U% |
| 4671 | 4159 | 406 | 106 | 2% | 23807 | 18244 | 4295 | 1268 | 5% |

The States are required to send Action Taken Reports (ATRs) in respect of works graded as 'Satisfactory, Requiring Improvement' and 'Unsatisfactory' by the NQMs during their field inspections. These ATRs are further processed at NRRDA and a decision about grade improvement is taken based on documentary proof including photographs of road work and recommendation of the SRRDA.

The status of ATRs during the period 2014-15 (upto March, 2015) is given below:

| Year | ATRs (handled at NRRDA) | Accepted | Rejected | Rejection % |
|---------|-------------------------------|----------|----------|----------------|
| 2014-15 | 2570 | 2202* | 346 | 13.46% |

*22 case have been referred to the Technical Committee comprising NQMs to examine the States' contentions.

6. STRENGTHENING OF 3RD TIER OF THE QUALITY ASSURANCE MECHANISM:

6.1 Orientation and training Programme on Mobile based application software for newly empanelled National Quality Monitors (NQMs)

With a view to make impact of Quality Monitoring more transparent mobile phone based application software has been prepared and integrated with OMMAS.

National Quality Monitors (NQMs) deployed under the 3rd tier of Quality Monitoring are required to verify that the State's Quality Management Systems is adequate and give feedback on quality



management shortcomings to enable systemic improvements. The NQMs are required to give their structured feedback in the prescribed formats, supported by quality control test results and photographs. The NQMs are also required to upload the quality grading abstracts and photographs of each inspected project in OMMAS (*the programme monitoring website*) through an android based mobile application. The quality grading abstract and corresponding photographs of the inspected projects are available in public domain.

During the year 2014-15 (from April, 2014 to March, 2015) as many as 47 new NQMs have been empanelled based on recommendations of an independent Selection Committee, constituted for the purpose.

With a view to provide initial guidance to the systems and related procedures under PMGSY, orientation programmes are conducted for newly empanelled NQMs. During these orientation programmes, NQMs are briefed about the programme guidelines and the guidelines for "Mobile Based Application Software for Uploading Abstract of Inspection and Photograph by Independent Monitors". During the period 2014-15 (April, 2014 to March, 2015) – 03 orientation programmes were organized by NRRDA, for the 47 newly empanelled NQMs.

6.2 NQM/SQM Workshop at Hyderabad (AP)

A workshop to improve the general and systemic issues in quality monitoring system under PMGSY was organized at NIRD, Hyderabad on 17th & 18th October, 2014.

It emerged, inter-alia, during the workshop that NRRDA may modify the formats for NQM and SQM inspections so as to capture systemic and specific issues respectively in quality monitoring of PMGSY projects. It was also felt that NRRDA may evolve a system for certification / accreditation of NQMs and SQMs. It also emerged that contract management issues need to be more focused during execution. NRRDA may advise the States to conduct joint orientation for PIU engineers and contractors' engineers before the start of the road work under PMGSY. It was also suggested by the quality monitors that an alert may be provided on the mobiles of monitors as soon as the SQC / CQC finalizes the inspection schedule.



With a view to involve active participation of road users in monitoring of quality standards of roads, it was felt that a feedback module in OMMAS may be developed for reporting and uploading the photographs of roads by road users.

7. MONITORING

7.1 On-line Management, Monitoring and Accounting System (OMMAS)

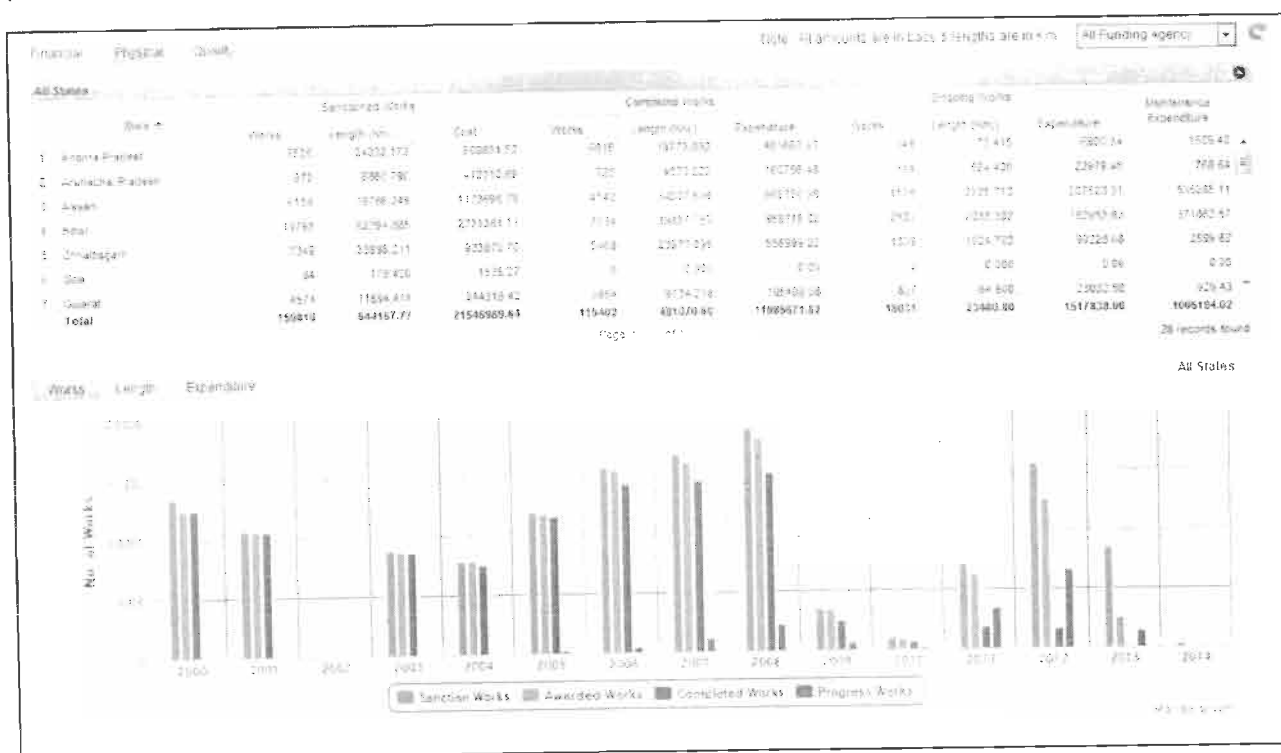
An On-line Management, Monitoring and Accounting System (OMMAS) for the PMGSY is in place to effectively monitor the entire Programme and bring

about greater efficiency, accountability and transparency in implementation. The OMMAS facilitates the operational requirements of planning, scheduling, monitoring, tracking and execution in implementing the PMGSY scheme. OMMAS is intended to serve the requirement of decision-making authorities at various levels, quality monitors, DPIU's, NRRDA and MoRD.

Considering the period as well as usage of the OMMAS application and based on the user inputs including the changes in the level of operations and in view of the latest developments in terms of technology, OMMAS is re-designed and re-developed from time to time.

Features of OMMAS 2

- **Generic Design** To maintain accounts of funds of different types (Programme Fund, Administrative Expenses Fund, Maintenance). Cash Book can be maintained Agency Wise and Stream Wise. The system can be easily extended to maintain the accounts of similar schemes.
- **Monitor PMGSY II Works** Extended to monitor the works sanctioned under PMGSY II with a provision for scrutiny by Principal Technical Agency after scrutiny by State Technical Agency.
- **Post 5 year Maintenance** Works completed and which are in maintenance can be monitored after capturing the agreements details for maintenance.
- **Quality Monitoring** Mobile application based quality monitoring of works is extended to other hand held devices and extended from National level Quality Monitors to the State level Quality Monitors of all the states.
- **Role based Dashboards** OMMAS presents the module wise data in a readable and easy to analyze format for the user based on his role.
- **In-Page Functionality with easy Navigation** All modules are designed for operational ease by providing all the required details within the page; no need to move out of the page to view details of other records. The menus are available to the user as per the assigned roles and responsibilities enabling the user to traverse between modules with ease



A Central Website has also been developed, which provides details of PMGSY Scheme, Guidelines, Agencies involved, role and responsibilities, etc. and can be accessed at www.pmgys.nic.in.

7.2 Review Meetings

To monitor the implementation of the projects by State Governments, **08 review meetings** were held at Regional levels covering each State once and the North East States twice in a year. These Review Meetings were attended by officials of MoRD, NRRDA and States / SRRDAs officials etc. On the second day of the meeting, some selected



Regional Review Meeting of East Zone States at Patna
September 2014

National Quality Monitors, State Quality Monitors, Principle Technical Agencies with State Technical Agencies were also invited for States specific technical discussions. Details of RRM held during 2014-15 were as under:-

| Date | Venue | State(s) covered |
|--|---------------------------|---|
| 29 th -30 th May, 2014 | Raipur, Chhattisgarh | Chhattisgarh, Madhya Pradesh and Uttar Pradesh |
| 27 th -28 th Aug. 14 | Srinagar, J&K | Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab and Uttarakhand |
| 29 th -30 th Sept. 14 | Patna | Bihar, Jharkhand, Odisha and West Bengal, |
| 28 th -29 th Oct. 14 | Hyderabad, Andhra Pradesh | Andhra Pradesh, Goa, Karnataka, Kerala and Tamil Nadu |
| 6 th Dec. 2014 | New Delhi | Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura |
| 27 th -28 th Dec.14 | Pune | Gujarat, Maharashtra and Rajasthan |
| 27 th Feb. 15 | New Delhi | Chhattisgarh, Haryana, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Odisha, Punjab, Uttarakhand and Uttar Pradesh |
| 23 rd -24 th Mar.15 | Guwahati | Assam, Arunachal Pradesh, Bihar, Jharkhand, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and West Bengal |

7.3 Transparency and Citizen Monitoring-

- A. Citizen Information Boards have been designed to provide details of actual work proposed at the site. Details relating to thickness of each layer of the pavement along with the quantity of the materials required to be used in each of the layers are displayed on the Board. State Governments have been advised to fix Citizen Information Boards on

each PMGSY road in the local language with a view to share information with the citizens and enhance transparency in the programme implementation.

In order to enhance transparency in the programme, State Governments have been advised to comply with a system of inviting public representatives for joint visit / inspections of PMGSY roads. The S.E. of the zone will request the Member of the Parliament & Chairman of Zila Panchayat representing that zone, once in six months for joint inspection of PMGSY road works. The EE in charge of the Division will request the MLA / chairperson of the intermediate parchayat concerned once in three months for joint inspection.

B. Right to Information (RTI)

An Agency has placed important information related to PMGSY on its official website (<http://www.pmgsy.nic.in>) and is also providing further information through its web enabled On-line Management, Monitoring and Accounting System (OMMAS), the URL for which is www.omms.nic.in. During the year 2014-15 Joint Director (F&A) and Director (F&A), NRRDA were appointed as the Central Public Information Officer and Appellate Authority of the Agency respectively.

C. Centralized Public Grievance Redressal and Monitoring System (CPGRAMS)

Centralized Public Grievance Redressal and Monitoring System (CPGRAMS), which is accessible through <http://pgportal.gov.in> is an important tool of Government to strengthen the two-way communication with citizens for effective and time-bound monitoring and implementation of programme & schemes at the ground level.

The status of Grievances received on CPGRAMS Portal from Ministry of Rural Development is regularly reviewed at NRRDA and forwarded to concerned SRRDA for necessary action at their end. It is also ensured that the grievances are disposed in time bound manner without

compromising on quality aspects. Citizens are welcome to use this portal to express their concerns related to programme / schemes and administrative activities.

So far, 616 grievances (till 31.03.2015) have been received through CPGRAMS portal, out of which 562 grievances have already been disposed off. The 54 pending grievances are already forwarded to concerned State for speedy action.

8. RESEARCH & DEVELOPMENT

8.1 NRRDA encourages and promotes use of new technology in road construction and Research & Training in this regard. In order to promote cost-effective, locally relevant, 'Green' and fast construction technologies in the construction of rural roads, using new materials / waste materials / locally available materials, etc, NRRDA has issued 'Guidelines on Technology Initiatives', in May 2013. The States have been asked to propose at least 10% of the length of annual proposals using any of the new technologies, for which specifications of Indian Roads Congress (IRC) exist, and an additional length of 5% of annual proposals with any of the new technologies for which specifications of Indian Roads Congress are not available, including materials accredited by IRC. Other important features of these guidelines are as under:

1. Identification of Roads and Technologies to be used in consultation with State Technical Agencies (STAs).
2. Performance Evaluation of Roads constructed using New Technologies atleast for a period of 18 months, through third party.
3. Training of officers of States and also of State Technical Agencies for use of various new technologies, through Central Roads Research Institute Delhi and other Principal Technical Agencies (PTAs).
4. Capacity building of Second and Third Tier quality management systems.
5. Mapping of Locally available materials on GIS platform.
6. Necessary modifications in the bidding documents

7. Preparation of Manuals and Handouts for new Technologies.

8. System of Awards for users of New Technologies

8.1.1 Following initiatives have also been taken up earlier by NRRDA to promote the use of new technologies:

- (i) States are encouraged to submit Technology Demonstration Projects along with regular proposals. Projects received from States are scrutinized and submitted to Empowered Committee for Technical demonstration.
- (ii) States are requested to adopt soil stabilization techniques where CBR is below 3 and STAs ensure that appropriate soil stabilization techniques have been proposed.
- (iii) The States have been advised to take up Pilot Projects using any of the materials/ technologies accredited by IRC, in their annual proposals.
- (iv) Detailed directions have been circulated to the States of Andhra Pradesh, Assam, Chhattisgarh, Jharkhand, Karnataka, Madhya Pradesh, Orissa and Tamil Nadu to take up Rural Road Projects with Coir Geo Textiles covering a length of about 50 Km in each State either under New Connectivity or Upgradation.
- (v) The States have also been told to take up Rural Road Projects, for about 100 Km on pilot basis, using Cold Mix Technology in the construction of surface layer of Rural Roads under PMGSY, if so allowed in the State.

8.1.2 Technology Demonstration Projects

States are being encouraged to propose Technology demonstration Projects using Jute and Coir, Cold Mix Technology using Cold Emulsions, Fly Ash, Steel and Iron Slag, Lime and Cement as Stabilizers, IRC accredited new materials. Project proposals received from various States using different new technologies after the guidelines on technology



initiatives were issued, as cleared by the Ministry on recommendations of Empowered Committee during 2014-15 are placed at **Annexure VII**.



A separate new window on OMMAS has been created for new technology (R&D) roads and States are advised to enter all the new technology roads sanctioned under PMGSY. The State wise / Technology wise sanctioned roads are made available on OMMAS under New Technology (R&D)

roads. The screenshot of New Technology Window on OMMAS is placed at **Annexure VIII**.

8.2 Mapping of Marginal Materials on GIS platform

A project for mapping of locally available construction materials including waste materials, on GIS platform has been entrusted to Central Roads Research Institute, New Delhi. The project is funded by NRRDA and has been started on Pilot basis initially in two districts of Bihar and two districts of Madhya Pradesh, with the support of concerned State Governments. CRRI has submitted the draft final report during March 2015. Final report is awaited from CRRI.

8.3 Showcasing of Good Governance Initiatives under Pradhan Mantri Gram Sadak Yojana (PMGSY)

was held on 25th December, 2014 at Silver Oak Hall, India Habitat Centre under the Chairmanship of Hon'ble Minister of Rural Development. The meeting was attended by Hon'ble Minister of State (RD), Secretary, Rural Development, Joint Secretary (RC) & DG, NRRDA and other domain experts. A brief introduction of "Standard Data Book of PMGSY-2014", "Grameen Sampark" and "New Modules of OMMAS" was



made by Joint Secretary (RC) & Director General, NRRDA. Hon'ble Minister of Rural Development has released "Standard Data Book of PMGSY-2014", "Grameen Sampark" and launching of new module on R&D in construction of rural roads and new module on Citizen Complaints on Programme Software OMMAS". The Hon'ble Minister of Rural Development has also presented ISO certification (ISO 9001-2008) to NRRDA.

8.3.2 Review of Research & Development Initiatives under Pradhan Mantri

Gram Sadak Yojana (PMGSY) was held on 25th February, 2015 at CAPART under the Chairmanship of Hon'ble Minister of Rural Development. The meeting was attended by Secretary, Rural Development, Joint Secretary (RC) & DG, NRRDA as well as members of the General Body of NRRDA and other domain experts. A detailed presentation on Research and Development Initiatives under Pradhan Mantri Gram Sadak Yojana was made by Director (Technical), NRRDA. At the end, Hon'ble Minister appreciated NRRDA for the initiatives taken up under R&D and suggested that States should be encouraged to use of new technologies through continuous workshops, technology marketing and visits of field officers of one State to the States where such technologies have been successfully implemented. Hon'ble Minister also indicated that suitable measures be adopted for achieving economy in construction of rural roads. Further, Hon'ble Minister opined that the technologies successfully implemented should be promoted and given adequate publicity across all media.

8.3.3 Workshop on Non-conventional Materials and Technologies

A three day workshop on Non-conventional Materials and Technologies, sponsored by NRRDA, was organised at IIT, Bhubaneswar on 22nd August 2014 to 24th August 2014 for STAs of States. About 78



officers from STAs attended the workshop. The officers were trained for different aspects of using non conventional materials and technologies.

8.3.4 Workshop on Non-conventional Materials and Technologies

A three days training programme on Innovative Technologies for Low Volume roads, sponsored by NRRDA, was organised at NIT, Warrangal on 30th October 2014 – 01st November 2014 and 16th December 2014 to 18th December 2014 for the officers of the States. About 58 officers from various States attended the workshop. The officers were trained for different aspects of using new technology materials for low volume rural roads.

8.3.5 Workshop on New Material and Technologies for Rural Roads under PMGSY

A two days workshop on New Material and Technologies for Rural Roads under PMGSY, sponsored by NRRDA, was organised at ARR&TI, Guwahatti during 2-3 December, 2014 for the State Technical Agencies of North Eastern States. About 29 officers from State Technical Agencies attended the workshop. The officers were trained for different aspects of using New Materials and Technologies.



8.3.6 Training for the Use of Fly Ash in PMGSY Projects

A one day training programme for the use of Fly Ash in PMGSY Projects, sponsored by NRRDA, was organised at Sonipat, Haryana on 19.01.2015 for the officers of various States. About 80 officers and contractors attended the training programme. The officers and contractors were trained for the use of Fly Ash in PMGSY projects.



9. EXTERNALLY AIDED PROJECTS

9.1 World Bank Assisted PMGSY RRPII Project

B1 Research & Development US\$11.9 million (Rs. 64.26 Crore).

B2 (i) Maintenance Management

Provisions:

Partnership with ILO to develop simple Maintenance Management System.

- a. Standard Maintenance Contracts i/c. performance and community based contracts, demonstration of these methods.
- b. Improved maintenance manuals with clearly formulated policies and strategies.

Progress:

- a. ILO Contract was signed on 26.09.2012 & they are assisting NRRDA in developing Rural Road Maintenance Policies and the Maintenance System in States. draft Rural Road Maintenance Policy was finalized and put up on website for guidance of the States Rajasthan, UP, HP, Bihar & Uttarakhand have finalized & notified this policy. In Punjab, Jharkhand & Meghalaya it is in process.
- b. Rural Road Maintenance Engineers have been deployed & are functioning in Rajasthan, Punjab, HP, Meghalaya, Uttarakhand, Bihar & Uttar Pradesh.
- c. Handbook on maintenance management of rural roads has been finalized in consultation with the States & circulated for guidance & implementation Rural Road maintenance system.
- d. Rural Road Maintenance works with performance based & community contract based formats are in progress in HP & Uttarakhand.

B1 (ii) Cost Effective Road Design

Provisions:

- a) Partnership with IRC and other institutions to finance research and trials for
 - (i) Alternative technologies including Cost effective surfacing and pavement options.
 - (ii) Appropriate hill road designs.
 - (iii) Green infrastructure techniques.
 - (iv) Improved Guidelines on Road Safety.
- b) Results to be reflected in revision of existing technical manuals and guidelines.

- c) Additional support to be provided for
- Improved/layout and presentation of manuals.
 - Related training materials video and e-learning modules.

Progress:

- (i) DPRs with Alternative technologies as well as Cost effective surfacing and pavement cleared by NRRDA for works. (from normal programme fund) in the year 2014-15.
- (ii) Revision of Operations Manual and preparation of DPR Manual was entrusted to IRC. Draft copies of both the manuals have been received and are being reviewed.
- (iii) Revision in the Book of Specifications for rural roads has been finalized and released.
- (iv) IRC has been requested to revise IRC:SP:20
- (v) Revision of Standard Data Book has been finalized and released.
- (vi) Environment code of practice (E-Cop) for PMGSY under RRP-II has been finalized and released.
- (vii) IRC:SP:72:2015, Guidelines for the Design of flexible pavements for low volume Rural Roads (First Revision) has been approved by IRC Council in its meeting held in Bhubaneswar during 20-21 January 2015. Design Charts for flexible pavements using cement Stabilized base / sub base courses have also been included.

B1 (iii) Support to Development of OMMAS and GIS.

Provisions:

Consultancy support to be provided for a variety of areas i.e.

- a) Improvement in OMMAS.
- b) Establishment data base for Core Network through development of web-based GIS and development of Social and Environmental screening using GIS.
- c) Improved Social and Economic prioritization of road works.
- d) Development of an online reporting module on maintenance.

The purpose would be establishing a comprehensive Planning, Management and Reporting System covering construction as well as maintenance.

Progress:

- (i) CDAC was assigned work of finalization of system requirement study for GIS. Their reports has been submitted & accepted. Draft MoU for implementation of GIS is under process.

- (ii) OMMAS review and improvement has been carried out in-house and by CDAC.
- (iii) Integration of OMMAS with e-procurement has been taken up by NIC & C-DAC and is in progress.

B1 (iv) Support for Key Programme Studies and Preparation of Guidelines.

Provisions:

To provide consultancy support to undertake key studies including:

- a) On agriculture Supply Chain Management
- b) Provision of transport services and update and
- c) Dissemination of key programme documents such as OM and Procurement and Contract Management Manual.

Progress:

The study on agriculture supply chain management system has been clubbed with outcome monitoring study as per WB suggestion & ToR finalized.

B2 Independent means of verification US\$ 6.7 million (Rs. 36.18 crore).

B2 (i) Performance Audit

Provisions:

Consultancy Services to undertake integrated post review of implementation performance under PMGSY, verification of DLIs and the fiduciary safeguards and technical aspects.

Progress:

Project Audit Consultant has been appointed and has submitted its second report for the cycle Oct 14 to Mar 15.

B2 (ii) Citizen Monitoring of PMGSY Roads

Public Affairs Centre (PAC), Bangalore has completed its study on "Citizen Monitoring of Rural Roads under PMGSY" in Jharkhand, Meghalaya and Rajasthan costing approx. Rs. 43.54 lakhs, in the first phase of the project and final report received from PAC. PAC facilitated monitoring of rural roads under PMGSY in three States with the help of its State level partner organizations viz., Karuna Trust, MJBK



and CUTS respectively. The goal of the intervention is to improve quality of roads by instituting citizens' checks during implementation of PMGSY scheme by training / capacity building of citizen volunteers with the required citizen friendly toolkit. The analysis of the data threw comprehensive light on the condition of roads in both the ongoing and completed stage from citizen perspective. The analytical report provided a basis for NRRDA/ concerned SRRDAs to take corrective actions and maintain the assets created under PMGSY.

It has been decided to take up phase-II of the project aiming at creating



and empowering a self sustaining Citizen Monitoring and Evaluation (Social Audit) platform in PMGSY covering 7 States viz., Assam, Jharkhand, Karnataka, Meghalaya, Odisha, Rajasthan & Uttarakhand. 20 roads each (10 ongoing and 10 completed) from the 7 States will be taken up under the project.

B2 (iii) Independent FM Audit

Provisions:

Services to undertake Independent Financial Audit in each of the participating States and NRRDA.

Progress:

Independent financial audit is being done in 8 RRP-II States & NRRDA.

B2 (iv) Outcome Monitoring

Provisions:

Support an Indian Research Institutes or University to undertake Socio Economic Impact Assessment of PMGSY.

Progress:

TOR has been finalized including Agricultural Supply Chain Management.

B3 State Level Project Institutional Support US\$ 22.6 million (Rs. 122.0 Crore).

B3 (i) PMCs

Provisions:

Project Management Consultancy tailored to specific needs of participating States.

Project Management Consultancy Support for NRRDA to facilitate co-ordination on State level initiatives.

Progress:

The PMCs have been put on ground in the States of Meghalaya, Jharkhand, Uttarakhand, Himachal Pradesh and Rajasthan. Regular meetings with States and PMCs are organised to facilitate effective consultancy support.

B3 (ii) Support for Maintenance Management

Provisions:

Providing Consultancy Support to development of MMS, conducting road inventories, executing maintenance systems expenditure, tracking surveys and maintenance policy formulation.

Progress:

Some of these issues have been covered in the maintenance of rural roads policy framework document already finalized and in the maintenance management handbook finalized & circulated to all States.

B4 Equipment (US\$ 7.8 million)

Provisions:

Equipment to provide support to NRRDA and participating States to improve infrastructure for Survey and Investigation, Quality Assurance, Project Implementation, Training, Computing Capacity and Introduction of New Technologies.

Progress:

The list of survey, condition and quality control equipment for all the participating States has been finalized. Amount of Rs. 9.93 Crore (US\$ 1.87 million) was initially sanctioned to RRP-II States. Further Rs. 19.84 Crore was approved & released to 16 non-participating States.

B5 Training and Skill Development (US \$ 10.9 million)

Provisions:

The component to support.

- a) Individual Skill Development of Public and Private Sector Staff i/c. Staff from SRRDA, PWD, RES, PRIs, Consultants and Contractors.
- b) Training programme based on needs assessment and annual training plans submitted by States.
- c) Major training to be provided by State level institution and IAHE.
- d) Development of Modern Curriculum and Course Material to be supported.
- e) Training to be complimented by Inter State and International knowledge transfer.

Progress:

Presently, based on existing training need assessment and available course material, the training is being imparted by IAHE and CRRI. Some efforts have been made by the States also. However, more systematic work of training needs assessment, identification of training institution in the States is yet to be done.

The initiative for training and skill development is as given below:

- (i) BITS Pilani to lead training and skill development with the help of IIT, Roorkee and IIT, Kharagpur
- (ii) Activities: Training needs assessment. Existing training material to be improved. Existing facilities in various institutions to be used.
- (iii) Identification of faculty and training of trainers.
- (iv) ARRTI, Guwahati, Assam to be utilized as training centre for North Eastern States.

Two meetings of core group on training and skill development have been held. The action on various activities listed above has already been started.

9.2 Asian Development Bank (ADB)

9.2.1 Assistance from Asian Development Bank (ADB)

ADB has been providing the assistance to PMGSY program in the States of Assam, Chhattisgarh, Madhya Pradesh, Odisha and West Bengal for Rural Roads Sector-I and Rural Roads Sector-II Projects & Rural Connectivity Investment Program through Loan of USD 400 Million for Rural Roads Sector I Project, USD 750 Million for Rural Roads Sector II

Investment Program and USD 800 Million for Rural Connectivity Investment Program.

Rural Roads Sector-I Project (RRSIP) has already been completed in Madhya Pradesh and Chhattisgarh.

Rural Roads Sector I Project (RRSIP)

Loan No.2018-IND: ADB had approved the loan of US\$ 400 Million under Rural Roads Sector I Project (RRSIP) to assist the implementation of the PMGSY projects in the States of Madhya Pradesh and Chhattisgarh. A total of 9,574.7 km of All-weather rural roads connecting 3,207 habitations were constructed. Project was successfully completed in June, 2009. Project completion report has been submitted to ADB as per the requirement of the loan agreement.

(ii) Rural Roads Sector II Investment Program

Project 1 (Loan No. 2248-IND): ADB had approved the loan of US\$ 180 million under Multi Tranche Financing Facility (MFF) to finance the sub projects in the State of Assam, Odisha and West Bengal. The total length of 2,507 km connecting 1,497 habitations was constructed under this project. The project was successfully completed in June, 2009. Project completion report has been submitted to ADB as per the requirement of the loan agreement.

Project 2 (Loan No. 2414-IND): ADB had approved the loan of US\$ 77.65 million for the Batch II Project in Odisha under Multi-Tranche Financing Facility (MFF). The project had provided the connectivity of 1,013 km in Odisha connecting 231 habitations. The loan was closed on 31st December, 2010. Project completion report has been submitted to ADB as per the requirement of the loan agreement.

Project 3 (Loan No. 2445-IND): A loan of US\$ 130 million under Multi-Tranche Financing Facility has been taken to finance the sub project of Batch II in Assam and West Bengal. The loan was made effective by ADB on 5th January 2009. The project will provide the connectivity to 607 habitations with 985 km in Assam and 718 habitations with 843 km in West Bengal. The Loan was

closed on 30th June 2013.

Project 4 (Loan No. 2535): A loan of US\$ 185 million under Multi-Tranche Financing Facility was taken to finance the sub projects of Batch III in Assam, Odisha and West Bengal. ADB has made effective this loan on 26th November 2009. This project has provided the connectivity for 397 habitations with 871 km in Assam, 517 habitations with 1,287 km in Odisha and 704 habitations with 660 km in West Bengal. The loan was closed on 31st December, 2012.

Project 5 (Loan No. 2651): A loan of US\$ 222.22 million under Multi-Tranche Financing Facility has been taken to finance the sub projects of Batch IV in Odisha, Batch V in Madhya Pradesh, Batch III (lot II) in West Bengal and Batch IV in Chhattisgarh. The loan was made effective on 29th October, 2010. This project will provide connectivity of rural roads with 142 habitations for 325 km in Chhattisgarh, 895 habitations with 2,535 km in Madhya Pradesh, 428 habitations with 1,512 km in Odisha and 257 habitations with 443 km in West Bengal. Loan will be closed on 30th June, 2014.

(iii) Rural Connectivity Investment Program (RCIP):

Multitranchise Financing Facility (MFF) for USD 800 Million has been signed on 17th May 2012 by ADB, DEA, MoRD and States. ADB financial support for the Investment Program to be extended through Multitranchise Financing Facility. Program will construct or upgrade to all weather standards about 9,000 km rural roads connecting 4,200 habitations in the States of Assam, Chhattisgarh, Madhya Pradesh, Odisha and West Bengal. Program will also focus on improvement of the Institutional Arrangements, Business Processes and Associated Capacity Building especially in relation to design, operation, safeguards, financial, road safety and assets management matter.

Financing Plan of the Investment Program is given below:-

| S.No | Source | Amount |
|------|------------------------|--------------|
| 1 | Asian Development Bank | USD 800 M |
| 2 | India and States | USD 425.30 M |

| | | |
|--|--------------|----------------------|
| | Total | USD 1225.30 M |
|--|--------------|----------------------|

Multitranche Financing Facility (MFF) will finance four projects time which has been converted into three projects slicing of the long term contract packages for the consulting services including the services of Technical Support Consultant and Rural Connectivity Training and Research Centres (RCTRC) Consultant will be used.

Indicative amount and schedule of 1st and subsequent tranches is given below:-

| Financing | Tranche 1 (in US\$ M) | Tranche 2 (in US\$ M) | Tranche 3 (in US\$ M) |
|------------------|----------------------------------|----------------------------------|----------------------------------|
| ADB | 252 | 275 | 273 |
| Government | 89 | 81.06 | 233.88 |
| Total | 341 | 366.06 | 506.88 |

Technical Assistance for Institutional Development for Rural Road Asset Management (TA-8110:IND)

Asian Development Bank had approved the provision of Technical Assistance to the Government of India for an amount not exceeding the equivalent of USD 2,300,000 M for Institutional Strengthening of the Rural Road Asset Management. The technical assistance will be financed and carrying out pursuant to:- a) Technical Assistance Framework between Government and ADB dated 10th July 1996 Framework Agreement and; b) The arrangement described in paragraph 16-18 of the report and recommendation of the President. TA will be implemented over 30 months period commencing from December 2012. Technical Assistance is provided as entirely grant.

Rural Connectivity Investment Programme also contains institutional development component involving:-

- A Construction of field offices(including laboratories and other facilities required to perform functions for the pilot Rural Road Network Management Units (RRNMUs) and providing all necessary equipment, system and tools for the rural road network management. According to the tentative schedule, it is anticipated that one RRNMU facility in each State will be constructed in the second year and are around 5 more in each State by the fourth year of the investment Programme.
- B Construction and equipping of 5 Rural Connectivity Training and research Centers (RCTRCs) in each State.
- C Rolling out systematic and large scale training and targeted rural roads research programs by the established RCTRCs and with assistance of related consultancy services.
- D The land for the construction of the RRNMU and RCTRC has been identified by all the States ADB had engaged the international architect for the preparation of concept drawings of RRNMU and RCTRC . The international architect has finalized the concept drawings for these units State of Madhya Pradesh, Chhattisgarh, Assam and West Bengal has appointed the local architect. The Architectural Drawings of the buildings of RRNMU and RCTRC has been finalised by the States of Assam, Chhattisgarh, Madhya Pradesh & West Bengal. Cost estimate has been prepared by the Architect's of the respective States. Sanctions for the construction of buildings of RRNMU and RCTRC has been issued by MoRD. The construction of buildings for RRNMU and RCTRC has been started in the States of Assam, Chhattisgarh, Madhya Pradesh & Odisha. State of West Bengal is in process of calling the bids.

(iv) Loan no. 2881-IND (Tranche 1)

Loan for Tranche-I under Rural Connectivity Investment Programme for 252.00 Million US\$ has been signed on 17th May, 2012. This loan will provide connectivity to all habitations with population of atleast 500 persons (250 or more) in hilly or desert area. Sub projects will cover about 3461 KM in total (compromising the about 342 KM in Assam 1008 in Chhattisgarh, 1187 KM in Madhya Pradesh, 757 KM in Odisha and 167 KM in West Bengal). The

procurement of the sub project is nearly in a completion stage in these States. 55 packages of Tranche 3 has been shifted to Tranche 1 and extension has been granted for 2 years from ADB. The loan will be closed on 31st December 2017.

(v) Loan No. 3065-IND (Tranche 2)

The Loan for USD 275.00 Million containing the component of Rural Connectivity and Institutional development was signed on 8th November 2013 and has effective from 31st March 2014. This comprises construction of rural roads that are part of the PMGSY to provide connectivity to all habitations of population of 500 persons (250 or more in hilly or desert areas, or scheduled tribe areas) or more with all-weather roads. Subprojects covering about 3692.80 km in total (495.56 km in Assam, 429.06 km in Chhattisgarh, 654.04 km in Madhya Pradesh, 1184.06 km in Odisha, and 930.08 km in West Bengal) will be financed under this loan.

So far a disbursements of USD 76.16 Million out of USD 275.00 Million till June 2015 i.e. 27.69% of the loan amount has been achieved. DEA has fixed the targets of the disbursements during 2015 as USD 76.16 Million and we have achieved USD 35.28 Million till June 2015. The loan will be closed on 31st December 2017.

Due to savings in the component of equipment and contingency we have proposed for shifting 39 roads of length 173.80 km costing USD 15.18 Million from Tranche 3 to Tranche 2 (Loan No. 3065-IND) because these roads could not be accommodated in Tranche 3. Proposal has been sent to DEA for approval.

The project under Tranche 2 under Rural Connectivity Investment Program will comprise of following components:-

- (a) Road Infrastructure Development : This comprises construction to an all-weather standard of rural roads that are part of the PMGSY with the aim of providing connection to all habitations – with population of at

least 500 persons (250 or more in hilly or desert Areas, or Scheduled Tribe areas). Subprojects will cover about 3,693 km in total (comprising about 496 km in Assam, 429 km in Chhattisgarh, 654 km in Madhya Pradesh, 1184 km in Odisha and 930 km in West Bengal)

(b) Institutional Strengthening : This component will support: (i) establishment of Rural Connectivity Training and Research Centers (RCTRCs) and Rural Road Network Management Units (RRNMUs) in each participating state which are financed under Tranche 1 (Loan 2881-IND), by providing all necessary state-of-the art equipment, system, software and tools, and (ii) a Project Implementation Consultant (PIC) will be engaged and financed by Government of India to assist MORD/NRRDA and state governments in complying the administrative requirements inherent to ADB-assisted projects, and provide additional support in operation, monitoring, evaluation and risk management.

Tranche 3

The Periodic Financing Request for Tranche 3 for USD 506.88 Million has been sent to ADB which contains ADB financing of USD 273.00 Million and Government of India financing of USD 233.88 Million along with the safeguard reports.

Tranche 3 comprises construction of rural roads that are part of the PMGSY to provide connectivity to all habitations of population of 500 persons (250 or more in hilly or desert areas, or scheduled tribe areas) or more with all-weather roads. Subprojects covering about 6127.66 km in total (486.984 km in Assam, 1055.94 km in Chhattisgarh, 1381.36 km in Madhya Pradesh, 2565.81 km in Odisha, and 637.574 km in West Bengal).

Terms and Conditions:- The request for finance Project 3 is for a loan of USD 273.00 Million from the ordinary capital resources of the Asian Development Bank (ADB). The loan will have a 20 year term including a grace period of 5

years. (straight line repayment method) and annual interest rate determined in accordance with ADB's London interbank offered rate (LIBOR) based lending facility, a commitment charge of 0.15% per year, and such other terms and conditions set forth in the draft loan and project agreement, based on this, maturity premium payable to ADB is nil.

Loan was negotiated on 6 August 2015 between Department of Economic Affairs, Asian Development Bank, Ministry of Rural Development and States of Assam, Chhattisgarh, Madhya Pradesh, Odisha and West Bengal. Terms and conditions of the loan and the repayment schedule has been finalized by MoRD and sent to Department of Economic Affairs. Loan will be executed shortly.

Rural Connectivity Investment Program (Supplementary):

Second Rural connectivity investment programme of US\$ 500 Million aims to construct or upgrade all weather 6,000 km of Rural roads connecting the unconnected eligible habitations and upgrading the already constructed roads to all weather connectivity, in the States of Assam, Chhattisgarh, Madhya Pradesh, Odisha and West Bengal.

In order to fulfill these aims, Government of India is considering additional financing of 500M US\$ from Asian Development Bank under the Rural Connectivity Investment Programme to assist portion of the PMGSY in Assam, Chhattisgarh, Madhya Pradesh, Odisha and West Bengal. MoRD has established strategic criteria to give priority to habitations with a larger population first and gradually expanding to cover the smaller populations.

ADB has approved the provision of the Technical Assistance to Government of India an amount not exceeding the equivalent USD 5,00,000 for the Second Rural Connectivity Investment Program. ADB has proposed to engage the PPTA under this Grant. PPTA will focus on the following:-

- (i) Program technical assessments which cover program soundness, expenditure and financing, and results and links with disbursements;

- (ii) Needs assessment for capacity development of PMGSY implementing agencies, particularly on the road asset management and road safety;
- (iii) Program system assessments which examine the monitoring and evaluation (M&E) systems, the fiduciary systems, the environmental and social systems, and other institutional and system aspects, as relevant and appropriate to the program; and
- (iv) The environmental and social systems assessment seeks to determine the degree to which the RBL program systems manage and mitigate the environmental and social impacts.

Under the rural connectivity programme, ADB is already providing financial assistance of 800M US\$ for the construction of roads in the States of Assam, Chhattisgarh, Madhya Pradesh, West Bengal and Odisha. The proposed Second rural connectivity investment programme is in continuity to RRSIP and RRSIIP; this loan will be 500M\$US supplementing to Rural Connectivity Investment Programme.

The proposal and the Concept Document for the Second Rural Connectivity Investment Program for US\$ 500 M has already been submitted by Hon'ble Minister (RD) to Hon'ble Finance Minister, Ministry of Finance. Project is being actively pursued with Department of Economic Affairs for consideration.

9.3.2 Training and Human Resource Development (HRD)

For Capacity Building of Personnel implementing PMGSY, various training programs have been organized by NRRDA at National Level Institutes such as CRRI, New Delhi, IAHE, Noida and at State Level at various state level institutes.

During the financial year 2014-15, 1498 officers have been provided training. Further, the training calendar for the 2015-16 for organizing of States has been finalized and training process has accordingly been commenced.

| Sl.No. | Programme | No. of officers trained in programme 2014-15 |
|--------|---|--|
| 1 | CRRl Training Programme(National Level) | 236 |
| 2 | IAHE Training Programme(National Level) | 173 |
| 3 | World Bank Training(National Level) | 605 |
| 4 | Training and Workshop(National Level) | 363 |
| 5 | Training Programme(State Level) | 121 |
| | Total | 1498 |

10. Workshops and Orientation-cum-Training Programme

10.1 Orientation and training Programme on Mobile based application software for newly empanelled National Quality Monitors (NQMs):

With a view to sensitize the systemic and other quality related issues under PMGSY, orientation programmes are conducted for newly empanelled NQMs. During these orientation programmes, NQMs are briefed about the programme guidelines and the guidelines for "Mobile Based Application Software for Uploading Abstract of Inspection and Photograph by Independent Monitors. During the period 2014-15 (April, 2014 to March, 2015) – 03 orientation programmes were organized for the 47 newly empanelled NQMs.

11. BUDGET

The approved revised budget estimates for the financial year 2014-15 and the expenditure thereagainst are given at **Annexure IX**. During the year the opening balance was Rs. 2.78 crore, interest and misc. Receipts were Rs. 2.02 crore and MoRD released a total grant of Rs. 4259.10 crore. The total expenditure incurred during the year was Rs. 4247.48 crore.

12. ACCOUNTS & AUDIT

The Accounts of the Agency have been audited by M/s. Agarwal A. Kumar & Associates, Chartered Accountants appointed for this purpose.

The audited Accounts in the form of Balance Sheet, Receipt and Payment Account, Income and Expenditure Account, for the year 2014-15 and Notes to Accounts are enclosed as **Annexure X (A) (B) (C) (D) and (E)**, respectively.

During the year, an expenditure of Rs. 4247.48 crore was incurred from the funds received from the Government of India. The expenditure was mainly towards payment of interest to NABARD (Rs. 460.20 crore), re-payment of principal amount of loan drawn from NABARD (Rs.3,700.00 crore), for expenditure of NRRDA (Rs. 19.80 crore), for managing World Bank Project i.e. Technical Assistance under RRP II (Rs. 49.10 crore).

13. IMPLEMENTATION OF OFFICIAL LANGUAGE POLICY

National Rural Road Development Agency (NRRDA) has been implementing the Official Language Policy as contained in Section 3(3) of the Official Language Act, 1963 and relevant rules of Official Language Rules, 1976 in its day-to-day official work. For this purpose an Official Language Implementation Committee, comprising of all the Directors of NRRDA and chaired by Director General, NRRDA had been setup in 2006 which periodically monitors the progress made in the use of Hindi in the Agency. During 2014-15, the Committee had held two meetings. The suggestions made in these review meetings were implemented in the agency. Two Hindi Workshops were held during the financial year to impart training in Hindi noting drafting and administrative terminology to the staff. A Hindi Pakhwara was also organized from 14th to 28th September, 2014 during which debates and competition in various activities relating to use of Hindi for the officers and staff were organised and prizes were given away to the winners. For promotion of the official language, the Agency annually brings out a magazine in Hindi called 'Rajbhasha Smarika' which is released during the Hindi Pakhwara. Officers and Staff of NRRDA contribute articles, short stories

and Poems for the 'Smarika'. NRRDA's magazine 'Gramin Sampark', Annual Report and other pamphlets brought out from time to time are published bilingually. The Agency is committed to making correspondences in Hindi with the Government offices located in the Region 'A' as required in the Official Language Rules, 1976.

YOUNG PROFESSIONALS FELLOWSHIP FOR PMGSY

1. Recruitment of Young Professionals for PMGSY.

1.1 Pradhan Mantri Gram Sadak Yojana (PMGSY) is a fairly complex programme: it envisages central funding for asset creation by the States, with the overall objective of better achieving the central goal of poverty reduction. The programme itself is an engineering based programme, whose utility depends on ensuring high standards, proper management and the full involvement of the many stakeholders. There are many aspects of the programme, that call for close academic and professional study and analysis, at the local, State and National levels. The results of such study would clearly be very welcome feedback into the programme at appropriate levels, both in respect of States who are lagging behind in completing PMGSY-I and in respect of the roll out arrangements for PMGSY-II.

1.2 In this background, it is proposed to encourage Young Professionals (YP) in the infrastructure, transportation, civil engineering, poverty reduction, rural development and other related sectors to undertake such studies and participate in the programme at first hand. On the one hand such an arrangement would enrich their knowledge and add to the sectoral capacity. On the other hand, the insights and feedback received through many mechanisms would help in the continuous improvement of the concept of PMGSY itself, and have beneficial impacts on similar programmes operated by the States.

2. The Scheme.

2.1 The basic features of the Scheme would be as follows :

i) YPS would be taken in annual batches in the following disciplines (and any other added) :

- Civil engineering
- Transportation planning
- Rural Development
- Poverty/socio-economic studies
- HDI/MDG related studies
- Energy and resource use efficiency
- Environmental impact assessments
- Systems design and organisational management
- Quality Management
- Any other discipline decided by the NRRDA

The attachment would be in the nature of a Fellowship under the programme and the YPs will be known as "PMGSY Fellows" during the attachment.

ii. The process of selection of Fellows would be conducted by NRRDA in collaboration with SRRDAs who wish to participate in the scheme, as per guidelines given in **Annexure 1**. The number of fellowships shall be decided by NRRDA in advance of the selection process.

iii. Fellowships shall be awarded for work related to specific areas of work jointly indentified by NRRDA and the participating SRRDA.

iv. YPs would be attached for a period of one year with the sectoral professional in the NRRDA and the SRRDA in accordance with the terms of reference (TOR)/methodology designed for the area of work. The specific area of work scoped out, together with the ToR and methodology shall constitute the "Project".

v. Selected Fellows would be free to propose/modify the methodology for the Project in consultation with SRRDA/NRRDA.

vi. The attachments may include visits/ temporary attachment with STAs/PTAs/PIUs/NQMs/SQMs etc as appropriate.

vii. The fellowship would be for a period of 1 year, and would be non-extendable. However a YP may apply through the normal process for another fellowship.

viii. The YP would be expected to give monthly reports to the SRRDA/NRRDA and participate as a Resource Person in workshops and seminars organised in respect of the programme. He shall give a final Project Report at the end of the Fellowship.

ix. The YP would be paid a stipend by NRRDA, and the terms and conditions of the fellowship would generally be as given in the **Annexure 2**.

x. On the successful completion of the Fellowship, the YP will be awarded a Certificate by the NRRDA.

2.2 The eligibility criteria for application shall be the following:

i. Applicant should be a citizen of India.

ii. He should be of an age between 23-30 years at the time of application. For candidates belonging to SC/ST category, the maximum age limit will be 32 years.

iii. A Post Graduate from a recognized University with a degree related to the discipline to which he is applying.

iv. At least 50% (60%) marks in the aggregate or equivalent grade at the graduate as well as Post-graduate level.

v. Physical fitness, certified by Government Medical Hospital.

2.3 Each YP would be attached for most of the duration of the Fellowship with an SRRDA (unless the nature of the fellowship requires him to be attached to the NRRDA) and shall:

- i. Familiarise himself with the area of work of the fellowship and give an inception report within 15 days detailing out how he proposed to carry out the Project.
- ii. List out the agencies with whom he proposes to interact (along with purpose), so that visits/temporary attachments can be arranged.
- iii. Give monthly reports on the progress to the SRRDA/NRRDA, and participate in quarterly seminars organized by NRRDA to review the work of the Fellows.

2.4 The Director NRRDA-cum- National Quality Coordinator will be the programme in charge at the Central level and the State Quality Coordinator will be the nodal officer at the SRRDA level.

2.5 Each Fellow will be assigned a Supervisor, depending on the content of the Project. The supervisor may be from within the SRRDA or from the STA or from an academic institution in the vicinity. The costs of the supervisor will be borne by the Scheme.

2.6 The Supervisor shall:

- (i) be responsible for ensuring that the Fellow works in accordance with the requirement of the Project.
- (ii) facilitate the Fellow in meeting officials and others as part of the Project.
- (iii) cause to be made available, or facilitate the Fellow in accessing, all data required for the Project.

(iv) guide the Fellow during the Project period

(v) approve the leave and report absence or other events in relation to the project.

(vi) advise the SRRDA on the progress of the fellowship and give his suggestions on improving the Scheme at the end of a project.

2.7 NRRDA shall place the Project reports in a searchable data base in its Website. The conclusions/suggestions emerging from the Report should also be presented at various forums, including Regional Reviews, Sectoral Journals etc.

3. The dividends from the Scheme:

3.1 The Scheme is intended to create a small group of Young Professionals with an in-depth understanding of rural transportation issues, including the poverty reduction dimension. Such YPs, post their fellowship, will have good potential for absorption in NRRDA, SRRDAs, STAs, Consultancy organizations of the sector etc. and will help create virtuous cycles of innovation and quality improvement.

3.2 As the Scheme establishes itself, it would be useful to take it forward by addressing the needs of mid-career professional (working in the SRRDA, PTA, STA etc.), and giving them a Strategy and Policy focus. Such a programme (which may be called a Senior Fellowship) could focus on those already employed in the sector at an implementational level (e.g. the senior Executive/Supt Engineer), and providing them with an opportunity to;

- Understand better the wider context of the PMGSY
- See programme management systems in other parts of the world
- Appreciate information management for operational, strategic and Policy purposes.

- Study how R&D systems can be linked to operational work
- Undertake a short duration study project of a subject of their choice, with the objective of suggesting systemic solutions.

Such a programme could be developed for a 3-month period and may operate as a joint programme of the NRRDA, SRRDAs, PTAs and STAs, with candidates being sponsored by the institutions and being treated as being on paid inservice-training for the period.

Once the scheme becomes operational, the general practice of having Young Engineer as Consultants would be done away with.

Annexure-1

THE PROCESS OF SELECTION OF PMGSY FELLOWS

1. The Executive Committee of the NRRDA shall work out the list of disciplines in which fellowships are to be offered in the forthcoming year, and the number of fellowships in each discipline.
2. NRRDA and SRRDA will mutually consult on the specific areas of study under each discipline and shall formulate the Topic of study and the broad scope and methodology, having regard to need perceived in the NRRDA and the SRRDA. NRRDA/MORD may consult or invite suggestions from other Ministries or stakeholders in case it is desirable. The intention is to define a definite deliverable "Project" for the purposes of the fellowship.
3. The applications (in a prescribed proforma) for the fellowship shall be invited in January each year by open advertisement and publication on the Official website and selections finalised by March. The list of topics and the location of the study shall be mentioned in the advertisement.
4. The application proforma will enable a preliminary assessment of the academic and intellectual capabilities of the applicant and the career path he has mapped out for himself.
5. Applications will be screened based on the academic performance, the appropriateness of the University degree to the Project topic, the capabilities and the relevance of the Project for the career path and 3 candidates shortlisted for each project topic will be interviewed to determine the final selection.

Terms and Conditions of the Fellowship

1. The Fellow shall be entitled to a consolidated stipend package of Rs.50,000/- (Rupees Fifty thousand only). This package shall be deemed to cover the Fellow's honorarium, boarding and lodging expenses/accommodation/house rent during the Fellowship period, health insurance, life and disability insurance cover and any other contingency expenses. It will be mandatory for the Fellows to purchase suitable health insurance and life and disability insurance coverage for the entire duration of the Fellowship.
2. NRRDA shall pay the monthly stipend to the Fellows and shall make direct deposits into the bank account of each Fellow immediately upon confirming the attendance of the Fellow from the SRRDA as per the format of monthly reporting to be prescribed.
3. The Fellow shall not take up any type of employment with any other person, firm or any other agency during the tenure of the Fellowship.
4. The SRRDA (or NRRDA in case of a direct attachment) will make available space in the SRRDA/PIU/STA or other office premises to the Fellow and shall make available a computer/laptop along with internet connectivity free of charge.
5. The PIU will provide the Fellows with suitable modes of transport while travelling within the district for regular work.
6. Travel reimbursement where PIU does not make the arrangement will be based on actual and restricted to AC II tier train fare by shortest route or equivalent, plus local transport cost.
7. The fellows are entitled to casual leave for a maximum of 8 days restricted holidays for 2 days and earned leave for 15 days in a calendar year. The Fellows may take unpaid (i.e. days for which stipend shall not be paid) leave for a maximum of 45 days, if adequately justified. All leave shall be taken with the prior written request to the Supervisor, duly approved. The tenure of Fellowship may be increased for those Fellows by the duration for which they remain on unpaid

leave, in case that is necessary to complete the project. Unauthorized absence shall be reported at once by the Supervisor to the SRRDA and the NRRDA.

8. Under normal circumstances, the Fellows are supposed to complete their Fellowship in terms of the Project scope as originally laid down. However, for reasons to be recorded, and in case NRRDA, SRRDA and the Fellow jointly agree, the scope and ToR of the project can be modified in view of specific circumstances, and in the public interest.
9. All materials generated during the Project, and all reports and audio-visuals and other intellectual property shall, unless a prior right subsists, be the property of the NRRDA, and shall be described as such. However Fellows, and any other persons, are free to use data collected during the Project as well as material included in the project after acknowledging the PMGSY fellowship/NRRDA for the data/intellectual property.

*National implementation of Web based
Geographic Information System*

for



Pradhan Mantri Gram Sadak Yojana (PMGSY)

Ministry of Rural Development, Government of India

Memorandum of Understanding

Between

National Rural Roads Development Agency,
Ministry of Rural Development,
Government of India

And

Centre for Development of Advanced Computing,
Ministry of Communications and Information Technology,
Government of India

National Rural Roads Development Agency, an agency under Ministry of Rural Development, Government of India registered under Societies Registration Act 1860 having its registered address at NATIONAL RURAL ROADS DEVELOPMENT AGENCY, MINISTRY OF RURAL DEVELOPMENT, GOVERNMENT OF INDIA, 5th Floor, 15 NBCC Tower, Bhikaji Cama Palace, New Delhi-110 066 (hereinafter referred to as "NRRDA") which expression shall where the context admits, include its successors or assignees

Party of the first part

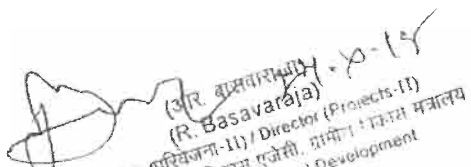
AND

Centre for Development of Advanced Computing, an autonomous society of the Department of Electronics and Information Technology, under Ministry of Communications and Information Technology, Government of India, registered under the Societies Registration Act 1860 and the Bombay Public Trust Act 1950 having its registered office at Pune University Campus, Ganeshkhind, Pune 411 007 (hereinafter referred to as "C-DAC") which expression shall where the context admits, include its successors or assignees

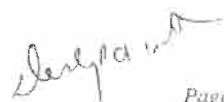
Party of the second part.

WHEREAS NRRDA assigned system requirement specification (SRS) study to C-DAC. The SRS report containing the project requirements & specification, procedure of system design for developing a Web GIS system for nine States was submitted by C-DAC and has been accepted by NRRDA.

WHEREAS NRRDA has decided to assign project for developing Web GIS under GIS implementation of "Pradhan Matri Gram Sadak Yojana" (PMGSY) in all PMGSY States/UT's to C-DAC with upgrading of GRIMMS Web option mentioned in SRS.


(उरि बासवराज) (R. Basavaraja)
निदेशक (परियोजना-11) / Director (Projects-11)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी, ग्रामीण विकास मंत्रालय
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India





NOW THEREFORE IT IS AGREED BY AND BETWEEN THE PARTIES
HERETO AS FOLLOWS:

1.0 DEVELOPMENT OF WEB GIS for PMGSY:

1.1 The project "National implementation of Web based Geographic Information System for Pradhan Mantri Gram Sadak Yojana" to be implemented by C-DAC has to be completed within 2 years from the date of receipt of an advance amount of project cost by C-DAC from NRRDA.

1.2 The GIS shall be implemented in two phases as indicated below

1.2.1 In Phase-I, procurement of GIS server at the central level along with operating software and integration of data from Rajasthan, Himachal Pradesh, Gujarat, Maharashtra, Uttarakhand and Punjab be implemented. Web GIS development, deployment and training shall be completed in Phase-I. In other words, installation & operationalisation of the software & hardware would be completed in phase I itself.

1.2.2 In Phase-II, remaining PMGSY states will be integrated into the Web GIS system progressively, as and when they finalize/ update the database.

1.3 Scope of Work:

The development of Web GIS for PMGSY is expected to cover the following aspects

1.3.1 Prepare guidelines/advisory that shall be used by the states for creating spatial data.

1.3.2 Procurement and installation of hardware and GIS software.

1.3.3 Integration of spatial data with OMMAS data.

1.3.4 Upgradation of old GRIMMS Web with latest version of Commercial off the Shelf (COTS) software (MapXtreme).

1.3.5 Web GIS shall have all GIS functionalities along with queries present in old GRIMMS Web

1.3.6 General GIS functions

1.3.6.1 PAN , Zoom In , Zoom Out , Full Zoom 

1.3.6.2 Info feature to display information about the vector features such as, district, block, habitation and roads on the GIS map

1.3.6.3 Layer tree to list, enable/ disable the GIS layers

1.3.6.4 Label GIS features

1.3.6.5 Legend to represent symbology of GIS layers.


1.3.6.6 Facility to select the size of the GIS map

1.3.6.7 Distance measuring tool

1.3.7 Query list

1.3.7.1 Habitation

▪ Habitation Classification


(R. Basavaraj)
निदेशक (परियोजना-II) / Director (Projects-II)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी / National Rural Development
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India





The query shows/highlights habitations on GIS map based on population range. In addition, area-type criteria is incorporated to select the habitations in Desert/ Tribal area.

▪ *Habitation Connectivity*

The query shows/highlights connected/ not connected habitations on GIS map based on population range and area type criteria. Connectivity status of the habitations before/after PMGSY started can also be checked.

▪ *Panchayat HQ Connectivity*

The query shows/highlights connected/not connected Panchayat Headquarters on GIS map based on population range and area type. Connectivity status of the Panchayat Headquarters before/after PMGSY started can also be checked.

▪ *Habitation Along Road*

The query shows/highlights habitations along the selected road within required buffer distance.

▪ *Tourist Places Connectivity*

The query shows/highlights connectivity status of tourist places on GIS map

▪ *Habitation Search*

Query gives option to search and highlight habitation/s on GIS map. Searching can be performed just by entering part of habitation name.

1.3.7.2 Roads

▪ *Road Category*

The query shows/highlights roads on GIS map based on road category (e.g. NH, SH).

▪ *Road Ownership*

The query shows/highlights roads on GIS map based on road ownership (e.g. PWD, GREF).

▪ *Road Parameters*

The query shows/highlights roads on GIS map based on road parameters (e.g. Land width, Formation width, Carriageway width).

▪ *Traffic Intensity*

The query shows/highlights roads based on traffic intensity (number of vehicles per day) for all vehicles as well as commercial vehicles.

▪ *Pavement*

The query shows/highlights roads based on selected pavement type and pavement length.

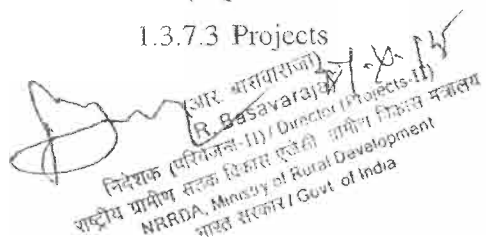
▪ *Cross Drainage*

The query shows/highlights roads based on number of Cross Drainages (CD works) on the road.

▪ *NQM and SQM*

The query shows/highlights the roads based on quality grading (Satisfactory/ Unsatisfactory). The grading is given by State Quality Monitoring authority (SQM) and/or National Quality Monitoring authority (NQM).

1.3.7.3 Projects


(R. Basavaraj)
निदेशक (परिचालन-II) / Director (Projects-II)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी / National Quality Monitoring
NRDA, Ministry of Rural Development
भारत सरकार / Govt of India





▪ *Completion Status*

The query shows/highlights roads based on their completion status

▪ *Sanctions Status*

The query shows/highlights roads based on sanction status year-wise, batch-wise and stream-wise.

▪ *Overrun Case*

The query shows/highlights roads based on time and cost overrun. Time overrun includes roads which are not completed in time. Cost Overrun includes roads having expenditure more than its sanctioned amount.

▪ *Physical and Financial Progress*

The query shows/highlights roads based on physical and/or financial progress of the roads. Physical Progress is percentage of work completed from the total work. Financial Progress is percentage of payment made from the total sanctioned amount.

1.3.7.4 Other Queries

▪ *Level Crossing*

The query shows/highlights level crossings (Manned/Unmanned) on the GIS map.

▪ *Quarry*

The query shows/highlights the quarry sites (Sand/Stone) on the GIS map.

1.3.8 New features to be included in Web GIS are as follows

1.3.8.1 Map printing facility

1.3.8.2 Display Geo-tagged photos

Road photos will be displayed in a popup.

1.3.8.3 Highlight the roads under / due for maintenance

Roads under construction/maintenance will be represented with different color schemes on GIS map.

1.3.8.4 Display construction material sites and waste material sites

Construction material sites and waste material sites will be shown on GIS map.

1.3.9 On the developed Web GIS, there shall be online help

1.3.10 Apart from online help, there shall be two training for NRRDA/state officials at pre-decided location(s). The first training cum stakeholder meeting shall be conducted for the spatial data creation guidelines/advisory. The second training shall be conducted for the use of Web GIS, on installation of Web GIS and uploading of data. The total training shall be for a maximum period of one week.

1.3.11 The spatial data required for the Web GIS shall be prepared by States as per the guidelines. Though travel to States is not part of this work, in exceptional cases if the travel is essential, all travel expenses shall be borne by States.

(आर. बासवराज)
(नि. बासवराज)
निदेशक (परियोजना-11) / Director (Projects-11)
राष्ट्रीय ग्रामीण सड़क विकास (एजेन्सी) कालिंग / कंस मंत्रालय
NRRDA, Ministry of Rural Development
भारत सरकार / Govt. of India



Signature

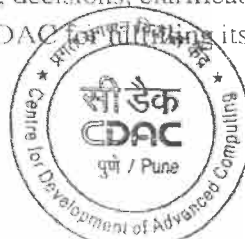
2.0 RESPONSIBILITIES OF C-DAC:

- 2.1 Provide guidelines to NRRDA as well as the States, which shall be used by States to create spatial data. States may seek clarification on preparation of database for which C-DAC shall render necessary help.
- 2.2 Checking spatial data (created by states) for compatibility with OMMAS
- 2.3 Provide hardware and software configuration to NRRDA for Data Center approval
- 2.4 Procure hardware and GIS software on behalf of NRRDA
- 2.5 Development of Web GIS for PMGSY
- 2.6 Hosting the system at data center
- 2.7 Provide training to NRRDA/State officials as per the training component under the scope of work
- 2.8 Nominate a functionary with sufficient authority, responsibility and accountability as a single point interfacing authority on behalf of C-DAC.

3.0 RESPONSIBILITIES of NRRDA

- 3.1 Obtain approval from Data Center (where OMMAS database servers are installed) for placing Web GIS servers, installing hardware and software; and for availing services required for operation of Web GIS application
- 3.2 Provide permission to GIS team to access OMMAS database from GIS Server.
- 3.3 Provide OMMAS onsite and remote access/login to C-DAC GIS development team. Provide permission to the GIS team to make required changes, such as creating views, in the OMMAS database
- 3.4 Interact with participating states and make spatial data including State mosaic and national mosaic available to C-DAC.
- 3.5 Provide computing, communication, office, infrastructure, facilities and support, uninterrupted power supply etc. for enabling C-DAC to complete its responsibilities. Existing facilities of OMMAS shall be utilised.
- 3.6 Certification of software for final release.
- 3.7 Provide all clearances/permissions/approvals from governments/statutory bodies required/requested by C-DAC for completing its responsibilities including but not limited to for study / data procurement / data uploading/ map publishing etc.
- 3.8 Nominate a functionary with sufficient authority, responsibility and accountability as a single point interfacing authority on behalf of NRRDA at central level who would approve / accept system enhancement / solutions proposed by C-DAC in response to NRRDA requirements; to ensure productive interaction and timely decisions.
- 3.9 To intervene, whenever required, to ensure that the State Agencies update data as per requirements to keep the system useful for monitoring and management of the programme.
- 3.10 To provide all information, inputs, data, figures, charts, diagrams, approvals, acceptances, permissions, sanctions, decisions, clarifications, explanations etc. necessary/requested by C-DAC for fulfilling its responsibilities under this

(आर बासवराज)
(R. Basavraj)
निदेशक (परियोजना-II) / Director (Projects-II)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी, ग्रामीण विकास मंत्रालय
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India



- MoU. NRRDA is responsible for ensuring that such information/inputs etc. (CN Roads, DRRP Roads, habitations etc. with codes matching with OMMAS) & answers are accurate and complete and are provided in prescribed time.
- 3.11 To provide required funds to C-DAC as per mutually agreed schedule attached herewith to carry out project activities during the period of this Agreement.
- 3.12 To provide training infrastructure including space, computing environment, projection systems, food/snacks, water, electricity and multiple copies of the training material, folder, pen/pencil, in order to impart training to NRRDA/ State officials in the operation of software.
- 3.13 Not to alter/ modify/ reverse engineer/ decompile/ combine/ decode etc. the software in violation of this agreement.
- 3.14 C-DAC shall not be responsible/liable for any downtime caused due to failure of power, connectivity or services such as mail, storage etc.
- 3.15 Services like development of new modules, integration with allied departments, etc. shall be analyzed and based on the feasibility study with the impact analysis, and effort estimation shall be submitted. Development of the same shall be considered after acceptance / approval from NRRDA. Cost will as per the C-DAC's standard fee rates prevalent at that time.
- 3.16 To accord, requested / required approvals / sanctions / acceptances within 15 days, failing which NRRDA shall be deemed to have accorded requested / required approvals / sanctions / acceptances.
- 3.17 NRRDA shall not during the Project and for 12 months after that without C-DAC's prior written consent directly or indirectly solicit or offer employment or engagement to any of the Personnel who at the time of such action or during a period of 12 months immediately preceding such action was directly involved with the Project.

4.0 PROJECT SCHEDULE

The project shall be completed in 24 months from the data of receipt of advance.
The project schedule for phase-I is 12 months, & for phase II 12 months which will be concurrent with warranty.

4.1 The project schedule for Phase I

| Activity/ Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13-24 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|-------|
| Guidelines to States | | | | | | | | | | | | | |
| Hardware Software procurement | | | | | | | | | | | | | |
| QC (compatibility of spatial data provided by states with OMMAS) | | | | | | | | | | | | | |
| Development of Web-based GIS, Linking of OMMAS with Spatial Database, etc | | | | | | | | | | | | | |
| Testing and bug fixing | | | | | | | | | | | | | |
| Hosting Web-GIS | | | | | | | | | | | | | |
| Documentation and Training | | | | | | | | | | | | | |
| Warranty | | | | | | | | | | | | | |

निदेशक (परिचालन) (I) (II)
राष्ट्रीय ग्रामीण सड़क विकास निदेशक (I) (II)
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India



Page 7 of 16

4.2 The project schedule for Phase II (12 months)

Phase II shall be completed in 12 months (during the warranty period of Phase I)

5.0 PROJECT COST:

| Phase I | | | | | | | | | |
|---------|--|-----------|--------|-----------------|----------------------|-----------------|-----------------|---------------|------------------|
| Sr No | WEB GIS - ACTIVITIES INVOLVED | Man month | Person | Cost | Contingency Overhead | Total Cost | Service Tax 14% | VAT 5% | Cost incl. Tax * |
| 1 | Development of Web based GIS | 9 | 6 | 7425000 | 1485000 | 8910000 | 1247400 | 445500 | 10602900 |
| 2 | Testing service | 2 | 2 | 550000 | 110000 | 660000 | 92400 | | 752400 |
| 3 | Hosting service | 1.5 | 2 | 412500 | 82500 | 495000 | 69300 | | 564300 |
| 4 | Training service | 1.5 | 2 | 412500 | 82500 | 495000 | 69300 | | 564300 |
| 5 | Warranty for 12 months | 12 | 2 | 3300000 | 660000 | 3960000 | 554400 | | 4514400 |
| 6 | Travel charges | | | 1980000 | 0 | 1980000 | 277200 | | 2257200 |
| 7 | Data validation/Integration with Web GIS | | | 1800000 | 0 | 1800000 | 252000 | | 2052000 |
| | Total 1 (Web GIS Development) | | | 15880000 | 2420000 | 18300000 | 2562000 | 445500 | 21307500 |

Contingency @ 5% of total cost. Overheads @ 15% of total cost

| | Hardware and COTS Software (Appx cost. Billing, taxes as per actual) | | | | Total Cost | Service Tax 14% | VAT 5% | Cost incl. Tax * |
|---|--|--|--|--|----------------|-----------------|---------------|------------------|
| 1 | Hardware | | | | 1500000 | | 75000 | 1575000 |
| 2 | Software, COTS | | | | 1500000 | 210000 | 75000 | 1785000 |
| 3 | Procurement overhead (10% of Hardware) | | | | 150000 | 21000 | | 171000 |
| 4 | Procurement overhead (10% of Software) | | | | 150000 | 21000 | | 171000 |
| | Total 2 (Hardware Software, appx.) | | | | 3300000 | 252000 | 150000 | 3702000 |

| | | | | | Total Cost | Service Tax 14% | VAT 5% | Cost incl. Tax * |
|--|--------------------------------------|--|--|--|-----------------|-----------------|--------|------------------|
| | Grand Total (Appx. - Phase I) | | | | 21600000 | | | 25009500 |

| Phase II | | | | | Total Cost | Service Tax 14% | VAT 5% | Cost incl. Tax * |
|----------|---|--|--|--|------------|-----------------|--------|------------------|
| | Data validation/Integration with Web GIS for remaining (20) States/UT @ 21. | | | | 4000000 | 560000 | | 4560000 |

| | | | | | Total Cost | Service Tax 14% | VAT 5% | Cost incl. Tax * |
|--|---|--|--|--|-----------------|-----------------|---------------|------------------|
| | Grand Total (Appx. - Phase I & II) | | | | 25600000 | 3174000 | 595500 | 29569500 |

* Taxes calculated as per current rate (shall be calculated as per the tax on billing date)

6.0 PAYMENT SCHEDULE:

6.1 Advance payment on signing MoU

| ADVANCE | | | |
|---------|--|------------|----------|
| Sr.No | Particulars | Percentage | Amount |
| 1 | Advance amount out of overall project cost (Rs. 29569500), excluding taxes | 40% | 10240000 |

*The advances to be adjusted against billings

6.2 Billing schedule is as follows:

6.2.1 Phase I

निदेशक (परिचालन II) (R.B. 2003) के अन्तर्गत (Projects II)
राष्ट्रीय ग्रामीण सड़क विकास प्रोग्राम, चरण I / विकास प्रसारण
NRRDA Ministry of Rural Development
भारत सरकार / Govt of India



Page 8 of 16

| BILLING - Phase I | | | |
|-------------------|--|------------|----------|
| Sr.No | Particulars | Percentage | Amount |
| 1 | Hardware (on actual, including procurement charge)* | 100% | 1851000 |
| 2 | COTS Software (on actual, including procurement charge)* | 100% | 1851000 |
| 3 | Web GIS Development [Out of 100% - Rs. 21307500] | | |
| | 3.1. Project initiation and Delivery of data creation guideline | 20% | 4261500 |
| | 3.2. Deployment of Web GIS (Beta version with one state) | 50% | 10653750 |
| | 3.3. Final deployment with available GIS data out 6 States, Training | 25% | 5326875 |
| | 3.4. Warranty | 5% | 1065375 |

6.2.2 In phase II, 100% of billing on successful hosting of first version of spatial data; for each State.

6.3 All payment shall be made to C-DAC by ECS / Demand Draft drawn upon any nationalized bank, payable at Pune only.

6.4 In case of delay in completion of activities due to reasons not attributable to C-DAC, NRRDA shall grant time extension and additional funding as per the prevailing rate of C-DAC.

6.5 All payments shall be made within one month of completion of each activity mentioned above.

6.6 Any additional charges due to changes / addition / deletions suggested by NRRDA shall be paid extra based on mutually agreed upon rate by NRRDA within 30 days of submission of estimate by C-DAC.

6.7 C-DAC shall give bank guarantee equal to the advance payment, valid till such time that the said amount is liquidated. As per the current billing schedule, it is further clarified that 40% advance shall be fully liquidated on installation of Beta version of the software. Bank guarantee ceases there. Future payment/invoice against delivery.

7.0 CHANGE CONTROL

7.1 At any time prior to the acceptance date C-DAC may in writing recommend and NRRDA may in writing request from time to time changes to any part of the project.

7.2 C-DAC will notify NRRDA in writing within [10] working days of receipt of the change request or the change recommendation of the time and cost needed to investigate the implications for this agreement of implementing the proposed change. The investigation will be carried out only on NRRDA's prior written instruction.

7.3 Following the investigation (if any) C-DAC will give a written [quotation or estimate] (valid for not less than [30] days from the date that is given to NRRDA) showing the increase or decrease in the Contract Price and any related effect on other contract matters, including the Project Plan and payment Schedule, should the proposed change be implemented. C-DAC will use all reasonable endeavors to ensure that its [quotation or estimate] is given within [10] working days (or such

(अ.र. बासवराज)
(R. Basavaraj)
निदेशक (परियोजना-11) / Director (Projects-11)
राष्ट्रीय ग्रामीण विकास संस्थान (R. Basavaraj)
NRRDA, Ministry of Rural Development
भारत सरकार / Govt. of India



Signature

7.4 Should NRRDA wish to proceed with the proposed change, it will instruct C-DAC in writing of its wish as soon as reasonably practicable after receipt of the written quotation but not later than [10] working days (or such longer period as may be agreed) of receipt of the written quotation or estimate. Those parts of this agreement affected by the change will then be deemed to be modified accordingly. C-DAC will as soon as reasonably practicable, incorporate the change in the Project Plan and in any other documentation where the change calls for modification and will give revised copies of the Project Plan and documentation to NRRDA.

7.6 C-DAC may make a reasonable change for investigating a proposed change and preparing [quotation or estimate] for that change, whether or not subsequently implemented, subject to agreeing the basis of charging for doing so with NRRDA in writing before proceeding with the investigatory work.

8.1 Warranty period will be valid for **12 months** from the date of completion of "installation of the hardware/software and testing/training/uploading of data for one State" or from the date completion of "one year of project", which ever date is later.

8.3 C-DAC will not be responsible for any problem arising from or caused by any modification (whether by alteration, deletion, addition or otherwise) made to the Software or equipment or any part of it by persons other than C-DAC without its express prior written consent.

9.0 ANNUAL MAINTENANCE CONTRACT (AMC) CHARGES:

10.0 TAXES:

11.0 COMMUNICATION

निदेशक (परिचयना-1) / Director (Registration)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी, भारत / National Rural Development
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India



July 10 Page 10 of 16

address of the parties concerned, and E-mail correspondence should not be taken as substitute for any official signed hardcopy correspondence in all important documents such as but not limited to financial and performance related documents. However, e-mail may be preferred during technical implementation of the project for the routine activities.

11.2 Office Address

| NRRDA | C-DAC |
|---|--|
| NRRDA, 5th Floor, 15 NBCC Tower, Bhikaji Cama Palace, New Delhi-110 066 | C-DAC, Pune University Campus, Ganeshkhind, Pune 411 007 |

11.3 Contact Persons

| NRRDA | |
|--|---------------|
| Mr. Rajesh Bhushan JS (RC) & Director General E-mail ID: Telephone No: 011- | Nodal Contact |
| A.K.Sharma Consultant-WB E-mail ID: ak.sharma52@nic.in | PI / CI |


| C-DAC | |
|---|---------------|
| Dr. Hemant Darbari Executive Director E-mail ID: darbari@cdac.in Telephone No: 020-25704300 | Nodal Contact |
| Mr. Sandeep Kumar Srivastava Associate Director and HoD E-mail ID: sandeepk@cdac.in Telephone No: 020-25503245 | |
| Mr. Sajeevan G Joint Director E-mail ID: sajeevan@cdac.in Telephone No: 020-25503238 | PI / CI |

11.4 Any change in office address or contact persons to be communicated by both the parties.

12.0 ACCEPTANCE TEST AND POSSESSION OF COMPLETED PROJECT:

12.1 For the acceptance of the Web GIS software, installation of hardware and software; and testing/training/uploading of data for one State should be completed.

12.2 C-DAC will prepare an acceptance test specification which is suitable to demonstrate that the system complies with and performs in accordance with the scope of the work. C-DAC will submit to NRRDA such test specification setting


(R. Basavaraj)
Director (Projects-II)
Ministry of Rural Development
Government of India





out the criteria and procedures for the acceptance of the System ('The Acceptance Specification') for approval by NRRDA (such approval not to be unreasonably withheld or delayed).

When the System is ready for the Acceptance Tests C-DAC will undertake the Acceptance Tests in accordance with the Acceptance Specification and the Project Plan using test data and expected results prepared by NRRDA and approved by C-DAC.

C-DAC will have up to [2] suitably experienced personnel involved with the supply of the System available on call at NRRDA's request to attend the Installation Site to assist NRRDA and provide advice on matters relating to the conduct of the Acceptance Tests.

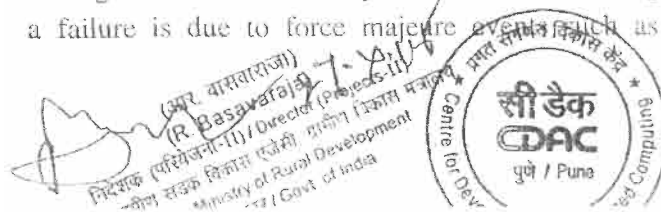
NRRDA should have sufficient number of suitably qualified persons to check the results of each stage of the Acceptance Tests against the Acceptance Specification. NRRDA will appoint a representative who will co-operate and liaise with the C-DAC in all matters pertaining to the Acceptance Tests. Following submission of documentation or demonstration of testing, NRRDA's representative will respond in writing within [5] days or such longer period as the parties may agree, signifying NRRDA's acceptance or rejection of such documentation or of that part of the System at the level of testing demonstrated. Failure to respond and demonstrate reasonable grounds for rejection within the appropriate period will be deemed acceptance of the documentation submitted or that part of the System so tested. In the case of rejection, the authorized representative will indicate the matters which have not successfully completed the tests together with full written details of them.

If C-DAC is required to repeat any part of the Acceptance Tests because of reasons beyond C-DAC's reasonable control, C-DAC may amend the Contract Price to compensate for all additional costs and expenses incurred as a result of having to repeat such Acceptance Tests.

Acceptance of the System will occur or be deemed to occur on the earliest of either; the date of successful completion of all stages of the Acceptance Tests as acknowledged by NRRDA signing an acceptance certificate within [15] working days; or if NRRDA has not signed the acceptance certificate within [10] working days of the date specified in clause above and fails to demonstrate to C-DAC within such period that the System has materially failed to pass the Acceptance Tests in accordance with the Acceptance Specification, the 26th day; or the date the System or a substantial part of it is first put into operational use.

13.0 FORCE MAJEURE:

13.1 The parties shall ensure due compliance with the terms of this agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the Agreement to the extent that such a failure is due to force majeure events such as fire, rebellion, mutiny, civil



Page 12 of 16

commotion, riots, strike, lock-out, forces of nature, accident, act of God and any other situation/circumstances/reasons beyond the control of concerned party. But any party claiming the benefit of this clause shall satisfy the other party of the existence of such an event and give written notice with material evidence within 15 days of occurrence of the event to the other party to this effect. The services covered under this Agreement shall be started as soon as practicable by the party concerned after such eventuality has come to an end or ceased to exist.

14.0 ARBITRATION:

14.1 Any differences or dispute between the parties arising out of or in connection with these presents will be discussed and settled amicably between the parties.

14.2 In the event of non-settlement of the difference or dispute within sixty (60) days, the same shall be referred to the Arbitration Tribunal consisting of three arbitrators out of them two Arbitrators appointed by each party and the said two arbitrators shall appoint Presiding Arbitrator. Arbitration proceedings shall be in accordance with the Arbitration & Conciliation Act, 1996 and Rules made there under, or any legislative amendment or modification made thereto, arbitration venue shall be at Pune or in Delhi and in English language. Decision of the Arbitration Tribunal shall be final and binding on all the parties to this Agreement.

15.0 IMPLEMENTATION OF THE MOU:

15.1 All discussions to be exercised and directions, approvals, consents and notices to be given and actions to be taken under these presents, unless otherwise expressly provided herein, shall be exercised and given by the signatories to this Agreement or by the Authorized Representative(s) that each party may nominate in this behalf and notify in writing to the other party by Registered Post within one month from the date of such notification. To facilitate smooth execution, NRRDA shall review the working of the MOU Quarterly at Delhi.

16.0 DURATION AND VALIDITY:

16.1 This Agreement shall be valid till the completion of the "Project" as per the project schedule from the date of execution of this agreement or unless replaced/ revised by another Agreement in writing and signed by both the parties. In case the implementation of the "Project" gets extended, then all the provisions of this Agreement shall continue to operate till this Agreement is formally renewed/ replaced or terminated except financials. The Agreement may be terminated on mutual consent of the parties.

16.2 The Agreement may be terminated by either party by giving one month's written notice sent through registered post acknowledgement due to the other party.

16.3 The Agreement may be terminated by either Party; if C-DAC fails to rectify / cure major bug / error in the work created by it, or any other complaints related to the work done by C-DAC, within 30 days of receipt of the written complaint from NRRDA or if NRRDA fails to accord request approvals / acceptances or make payments within 30 days of request / payments becoming due / submission of claim

(आर. बासवराज)
(R. Basavaraj)
निदेशक (परियोजना) / Director (Projects)
राष्ट्रीय सड़क विकास मंत्रालय, ग्रामीण विकास मंत्रालय
Ministry of Rural Development
Ministry of India



Page 13 of 16

/ demand for payment; by giving one month's written notice sent through registered post acknowledgement due to the other Party.

16.4 Upon termination of this Agreement for whatever cause, NRRDA shall make payment all money due to C-DAC after taking into account amounts previously paid together with:

16.4.1 The total value of the Project completed up to the date of termination;

16.4.2 The cost of materials or goods or services ordered or committed or manpower/resources hired/engaged/committed for the project for which C-DAC has paid or is bound to pay;

16.4.3 Cancellation charges payable to contractors/consultants etc. and the cost of removal from the Installation Site of any property of C-DAC.

16.5 Clauses on Confidentiality, IPR, Limitation of Liability, other accrued rights/limitations shall survive expiry/prior termination of this MoU.

17.0 CONFIDENTIALITY:

17.1 Any information, received in any form which is not in public domain, received by any party, under and by virtue of this Agreement shall be maintained in the strictest confidence and trust.

17.2 Parties agree to maintain the absolute confidentiality and would not disclose/part or share any information/program of the Project with any person or party not authorized by other Party or directly related with the project. Even with the persons associated with project, information will be shared only on need to know basis.

17.3 During the tenure of the MoU and thereafter both parties undertake on their behalf and on behalf of their employees / representatives / associates to maintain strict confidentiality and prevent disclosure thereof, of all the information and data exchanged/ generated pertaining to work under this agreement for any purposes other than in accordance with this agreement.

17.4 In the event of any of the parties becoming legally compelled to disclose any confidential information, such party will inform in writing to other party before disclosing any confidential information.

17.5 This clause shall survive even after expiry / termination of this Agreement.

18.0 INTELLECTUAL PROPERTY RIGHTS:

18.1 For the developed Web GIS application software, all rights of data provided by NRRDA shall remain with NRRDA.

18.2 Existing IP of C-DAC as on date of execution of this MoU shall be exclusively owned by C-DAC.

18.3 The intellectual property (including but not limited to inventions, ideas, innovations, know-how / process / design / technique / copyrights / patent etc) generated/created/designed/developed in relation to or arising out of or incidental to the PROJECT/this MoU shall be owned exclusively by C-DAC. All intellectual properties arising out of or related to the Project shall stand assigned in favor of C-

(300-विकासपरामर्श)
(Dr. Basavaraj)
निदेशक (परिचालन-11) विकास
समूह विकास (पुणे), पुणे-411005 विकास परामर्श
समूह विकास (पुणे) Development



Page 14 of 16

DAC/owned by C-DAC. NRRDA agrees to execute any document such as application, affidavit, transfer application, assignment deed etc., in favour of C-DAC to that effect.

18.4 For internal purpose, NRRDA may adapt, modify, transcript, use or copy any portion by merging or de-merging the Software.

18.5 For internal purpose, NRRDA is permitted for redistribution of the software or any of its components.

18.6 C-DAC shall not be responsible in any way for NRRDA's USE/DISTRIBUTION or otherwise dealing of its software application product.

18.7 NRRDA agrees that the software tool/ product to be developed under this MoU may require use of open source and COTS tool. NRRDA further agrees to abide all the terms and conditions of the Open source and COTS tool licenses. C-DAC shall not be responsible for breach of the said licenses by NRRDA.

18.8 NRRDA shall not rent, lease, or lend/ mortgage/ hypothecate the SOFTWARE.

19.0 LIMITATION OF LIABILITY:

19.1 Under tort/contract or any legal theory, C-DAC shall not be responsible and liable to NRRDA, users, citizens or any other person for any direct, indirect, consequential, remote loss/damage of any kind including but not limited to loss of data, loss of goodwill, loss of profits, loss of business, loss of opportunities, loss of health, loss of reputation etc.

19.2 The developed software application shall perform as per the scope of the work.

20.0 MISCELLANEOUS:

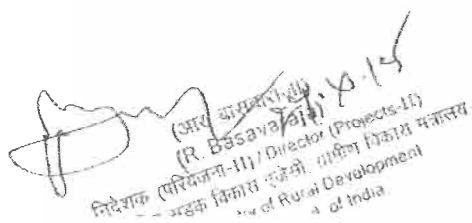
20.1 Should any provision of this agreement be found to be inoperative, void or invalid by a court of competent jurisdiction, all other provisions of this agreement shall remain in full force and effect for the duration of this agreement, it being the intention of the parties that no portion of this agreement or provision herein shall become inoperative or fail by reason of the invalidity of any other portion or provision.

20.2 This Agreement will not be modified unless agreed in writing and signed by both the Parties.

20.3 This Agreement will not create any relationship between the Parties such as agency, partnership, etc. Parties are and shall remain independent parties.

20.4 Neither Party shall assign or otherwise transfer this Agreement or any part thereof without the other Party's written consent. However, NRRDA agrees and acknowledges that C-DAC can collaborate/outsource/subcontract some components/parts of some of its works, without violating this agreement.

20.5 The failure or neglect by either of the Parties to enforce any of the terms of this Agreement shall not be construed as a waiver of its rights preventing subsequent enforcement of such provision or recovery of damages for breach thereof


(R. Basavaiah)
निदेशक (परियोजना-11) / Director (Projects-11)
ग्रामीण विकास मंत्रालय
Min of Rural Development
Govt of India





20.6 Headings of particular Sections are inserted only for convenience and are not to be used to define limit or construe the scope of any term or provision of this Agreement.

This Agreement constitutes the entire Agreement between the Parties and in case of conflict with any previous/prior document/understanding, this Agreement takes precedence. Any and all written or oral agreements, representations or understandings of any kind that may have been made prior to the date hereof shall be deemed to have been superseded by the terms of this Agreement.

IN WITNESS WHEREOF the parties have executed these present through their Authorized Representatives at Pune.

For and on behalf of:

Centre for Development of Advanced Computing (C-DAC),

Through----- C-DAC

Director (Admin & Legal) and Head
(Administration), CDAC, Pune.



WITNESS:

1. [Signature]
C.S.K. Srivastava
A.D. MoD - SSDM & C.G.O.
C-DAC, Pune

2. [Signature]
Sujayan G
Joint Director

For and on behalf of:

National Rural Roads Development Agency (NRRDA)

No 15 NBCC Tower 5th Floor,

Bhikaji Cama Place, Near Hyatt Regency,

Delhi - 110066

(अ. बासवारजा)
(R. Basavaraja)
निदेशक (परियोजना-II) / Director (Projects-II)
राष्ट्रीय ग्रामीण सड़क विकास एजेंसी, ग्रामीण विकास मंत्रालय
NRRDA, Ministry of Rural Development
भारत सरकार / Govt of India

WITNESS:

1. [Signature]
R. Patenya
27/10/2015

2. [Signature]
27/10/2015

Memorandum of Understanding

**Between
National Rural Roads Development Agency
And
Indian Academy of Highway Engineers
And
National Institute of Rural Development**

**For
Skill Development and Capacity Building of
Stakeholders involved in implementation of
Rural Road (PMGSY) Projects**

**Memorandum of Understanding (MoU) between
National Rural Roads Development Agency (NRRDA) and
Indian Academy of Highway Engineers (IAHE) and
National Institute of Rural Development (NIRD) for
Skill Development and Capacity Building of Stakeholders
involved in implementation of Rural Road (PMGSY) Projects**

The National Rural Roads Development Agency (NRRDA), an IS/ISO 9001-2008 Institution of Ministry of Rural Development, Government of India, New Delhi, which extends support to PMGSY implementation through advise on Technical Specifications, Project Appraisal, Quality Monitoring & Skill Up-Gradation etc.

Indian Academy of Highway Engineers (IAHE), an apex Academy under the Ministry of Road Transport and Highways, Government of India, duly registered as a Society under The Societies Registration Act, having its campus at A-5, Sector-62, Noida-201309, UP, India; and

National Institute of Rural Development and Panchayati Raj (NIRD&PR), Ministry of Rural Development, Govt. of India, located at Hyderabad, Andhra Pradesh, India, all collectively known as the 'Parties';

Having recognized the need to further augment skill development initiatives at larger scale for all stakeholders in a systematic manner and appreciating over a decade long association of IAHE as a valuable technical training partner in rural road development and the strengths of NIRD in delivery of training in various areas of rural development & connected activities, have decided to work together for 'Skill Development and Capacity Building of Stakeholders involved in implementation of Rural Road (PMGSY) Projects' and have reached the following understanding:

ARTICLE-1 OBJECTIVES

‘The Parties’ will seek to work together for:

- a) Skill Development and Capacity Building of all the stakeholders involved in implementation of Rural Road projects in general and the Pradhan Mantri Gramin Sadak Yojana (PMGSY) in particular, in various States as per the requirements of NRRDA and the States. The stakeholders comprising of officers of State Rural Roads Development Agencies (SRRDAs), State Public Works Departments (PWDs), Rural Engineering Organisations, Panchayat Raj Engineering Departments, Office bearers of Panchayat Raj Institutions (PRIs), Consultants and Contractors, as well as their staff, etc. involved in implementation of Rural Road (PMGSY) Projects, as identified by the NRRDA.
- b) Develop syllabus for training, training modules, training schedules, training materials on the modules for all the levels of stakeholders for organizing training programmes, develop effective feedback mechanism and post training monitoring mechanism, etc.
- c) Delivery of training by professional trainers/faculty/experts, development and operationalisation of a pool of trainers resources for all relevant areas of training.
- d) Monitor delivery of training modules and learning's, as well as evaluate their impact etc. and
- e) Review training needs, training strategy and revise the training modules on regular basis for delivery of effective training.

ARTICLE-2

TRAINING POLICY

The NRRDA, MORD has evolved a Human Resource Development Strategy for Capacity Building of Agencies responsible for Development of Rural Roads. Training of various stakeholders is an important element of this strategy. It is envisaged that extensive training programmes will need to be organised for the stakeholders involved across the country to fulfill the ultimate objective of the rural road building and maintenance programme. This will entail identification of training areas, development of training modules comprehensively keeping in view the stakeholders and would need to be reviewed based on the feedback received from time to time. To start with, a few priority areas have already been identified as Phase-I and the same is enclosed at Annex-1.

ARTICLE-3

IMPLEMENTING AGENCY

The NRRDA accepts IAHE and NIRD as "Implementing Agency for preparation of Training Modules & Delivery of Specialized Training" and "Implementing Agency for Generic Training" respectively for 'Capacity Building and Skill Development' of stakeholders involved in implementation of Rural Road Projects particularly PMGSY in various States for organizing training programmes. IAHE and NIRD will work with NRRDA as per following terms and conditions:

- (a) The "Implementing Agencies" shall exercise all reasonable skill, care, meticulous planning and diligence in the discharge of their functions under this MoU.
- (b) The NRRDA shall provide such assistance as shall reasonably be required by the "Implementing Agencies" for carrying out their functions under this MoU.

- (c) The NRRDA shall have the authority to make any modification, with mutual consultation, in the proposals given by IAHE and NIRD from time to time as considered necessary and appropriate for the effective and efficient delivery of training programmes.

ARTICLE-4

DIVISION OF TRAINING

1. 'Specialized Training Programmes' relating to Planning, Design, Construction, Maintenance, Operation and Management of rural roads including bridges shall be handled by the IAHE.
2. 'Generic Training Programmes' relating to capacity development other than para-1 above shall be handled by the NIRD.

ARTICLE-5

SCOPE OF WORK

IAHE and NIRD being Implementing Agencies for organizing Specialized and Generic training programmes respectively shall be responsible for following functions:

1. Develop syllabus for training, training modules and training schedules for different types of trainings programmes for different levels of stakeholders involved in implementation of Rural Road Projects particularly PMGSY as per the requirements of NRRDA, as identified from time to time.
2. Develop detailed training text materials, objectively designed training modules for the participants for different types of training programmes, for different levels of participants from stakeholders involved in implementation of Rural

Road Projects particularly PMGSY as per the requirements. Prioritize training areas for development of training material in consultation with NRRDA, as identified from time to time.

3. Involve a team of eminent subject experts comprising of academicians, senior engineers (serving or retired), consultants, contractors, and trainers for development of training modules and training materials for delivering the training programmes objectively in order of priority for different areas of trainings.
4. Deliver the training programmes by engaging professional trainers / faculty / experts, develop and operationalize pool of trainer resource for effective delivery of the training programmes.
5. Monitor training delivery, develop effective feedback mechanism, monitor learnings, develop post training monitoring mechanism and revise the training strategy (whenever required) to fulfill the overall objectives of NRRDA, etc.
6. Prepare Annual Training Plan and Training Calendar for delivery of training programmes as per the requirements of NRRDA.

ARTICLE-6

DELIVERY FRAMEWORK

1. IAHE shall endeavor to organize at least 50% of the specialized training programmers at IAHE Campus, Noida (UP) and remaining 50% at regional level in various States, in consultation with NRRDA.
2. The specialized training programmes delivered at IAHE Campus, Noida (UP) shall primarily be targeted to cover participants from the Northern and Central Region States.
3. IAHE shall endeavor to organize specialized training programmes for Southern and North-Eastern Region States at NIRD, Hyderabad and NIRD-NERC, Guwahati respectively.
4. The remaining specialized training programmes at Regional/State level shall be organized by IAHE at State Institute of Rural Development (SIRDs), STAs, and other State Government institutions located all over the country, keeping in view the training requirements, as per mutual convenience.
5. All the generic training programmes shall be organized and delivered by NIRD at NIRD centers located at Hyderabad, Guwahati and at other centres of SIRDs, IAHE (Noida), STAs, and other State Government institutions located all over the country, keeping in view the training requirements, as per mutual convenience.
6. Implementing Agencies shall submit a proposal to NRRDA, comprising of detailed estimate and programmes delivery time table alongwith tentative schedules for organizing various capacity building initiatives as part of annual training plan.

7. Implementing agencies shall suggest assistance and support required from the NRRDA and State Govt. Agencies for effective implementation of capacity building and training initiatives, if any.

ARTICLE-7

ROLE OF NRRDA

1. To finalize broad training needs and training areas for organizing different types of training programmes for different levels of participants.
2. To finalize list, on a yearly basis, of different levels of officers, for different types of training programmes, to be trained as per training needs in consultation with States implementing agencies.
3. To arrange release of funds to 'Implementing Agencies' for organizing training programmes, as per prescribed schedule.
4. To facilitate 'Implementing Agencies' in prioritizing, finalizing the training modules, training materials, delivery framework and schedules of training programmes.
5. To invite and finalize nominations for different types of training programmes at least three (3) weeks before commencement of the particular training programme and forward the list of participants at least two (2) weeks before the said commencement, to implementing agencies.
6. To facilitate 'Implementing Agencies' in deciding venue, making local training arrangements including lodging and boarding of participants and faculty in case of organizing training programmes in different States other than at IAHE and NIRD centers.

7. To assist 'Implementing Agencies' on typical/particular issues which Implementing Agency brings to the notice of NRRDA and which might have not been envisaged or anticipated at the time of signing of the MoU.

ARTICLE-8

FUNDING

1. The NRRDA shall finance entire cost by way of 100% funding of 'capacity building and skill development' initiatives to be delivered by IAHE and NIRD for the stakeholders involved in implementation of Rural Road (PMGSY) Projects.
2. The expenditure on account of development of training modules, training materials on each module, designing and printing of training materials including engagement of experts for development of training materials will be borne by the NRRDA based on the detailed proposal submitted by 'Implementing Agencies' and finalized in consultation with NRRDA.
3. The course fee, for delivery of in-campus training programmes, to be released to "Implementing Agencies" shall be as approved by their respective Competent Authorities' viz. Governing Body, etc. under the administrative control of concerned Ministry of Govt. of India and duly agreed by the NRRDA.
4. The course fee, for delivery of off-campus training programmes, shall be worked out separately in consultation with NRRDA as per the training requirements (location for training and facilities available) and as agreed by NRRDA.
5. The course fee for organizing special training/orientation programmes to cater for specific needs of NRRDA shall be worked out on case to case basis and finalized in consultation with NRRDA.

ARTICLE-9

RELEASE OF FUNDS

The Funds to the Implementing Agencies shall be released as per the prescribed schedule. The course fee as per prescribed schedule, appended as appendix to this MoU shall be released to respective implementing agencies before commencement of training programmes for meeting the expenditure requirements for training programmes as per the prescribed schedule, enclosed at Annex-2.

ARTICLE-10

INSPECTION

The training programmes under this MoU would be delivered on a turnkey basis. The implementing agencies would undertake entire responsibilities for delivering training programmes as per agreed modules and schedules. The NRRDA shall have the right to carry out inspection of delivery and monitor the effectiveness of delivery of trainings, at any time in consultation with the Implementing Agencies.

ARTICLE-11

FORCE MAJEURE

The Force Majeure Clauses under this MoU would be as follows:

- (a) The term "Force Majeure", as employed herein shall means acts of God, strikes, lock-outs, acts of the public enemy, invasion, revolution, sabotage, war, blockages, insurrection, riots, epidemics, stoppages in supply of materials such as fuel, electricity etc., breakdown of machinery, fire, landslides, earthquakes, storms, lightening, floods, washouts, civil disturbances, explosions accidents, work shutdown imposed by Government Acts or Legislation or by other

authorities, any other similar events, not within the control of either party and which by the exercise of due diligence neither party is able to overcome.

- (b) If either Party is temporarily unable by reasons of "Force Majeure" to meet any of its obligations under this MoU, and if such Party gives to the other Party written notice of the event within fourteen (14) days after its occurrence, such obligations of the Party as it is unable to perform by reason of the event shall be suspended for as long as the inability continues.
- (c) The Implementing Agencies shall be granted necessary extension of time to cover the delays caused by "Force Majeure".

ARTICLE-12

REPEAL AND SAVINGS

This MoU can be modified/amended through or consultative process between NRRDA and the Implementing Agencies.

ARTICLE-13

MONITORING COMMITTEE

A monitoring committee consisting of DG, NRRDA, DG, NIRD&PR and Director, IAHE would monitor and exercise oversight on the training activities, as visualized in this MoU. This committee shall meet at least once every six month at a mutually agreed place and time.

ARTICLE-14**DURATION AND EFFECTIVE DATE**

The Memorandum will come into effect from the date of its signature until any Party decides to discontinue its participation in this MoU, in which case that Party shall provide sixty (60) days' prior written notice.

This Memorandum of Understanding is signed on the ____ day of _____, 2015 between the Parties and shall be effective from the date of signature.

| For and on Behalf of the National Rural Roads Development Agency (NRRDA), Ministry of Rural Development, Govt. of India, New Delhi | For and on Behalf of the National Institute of Rural Development (NIRD), Ministry of Rural Development, Govt. of India, Hyderabad | For and on Behalf of the Indian Academy of Highway Engineers (IAHE), Ministry of Road Transport & Highways, Govt. of India, Noida |
|---|--|--|
| Name: | Name: | Name: |
| Designation: (Stamped) | Designation: (Stamped) | Designation (Stamped) |

Annex-1

Identified training programmes to be organized initially (Phase-I)

| S. No. | Name of Training Programme | Training duration (no. of days) | Total Officers to be trained | Number of training programmes |
|--|--|---------------------------------|------------------------------|-------------------------------|
| Following specialized training programmes are proposed to be organized by IAHE, Noida | | | | |
| 1. | Basic training for newly inducted officers in PMGSY | 5 | 764 | |
| 2. | Refresher course to basic training | 2 | 438 | |
| 3. | Basic programme – Planning, Design and Construction of Bridges and Culverts | 3 | 487 | |
| 4. | Advanced Programme – Planning, Design and Construction of Bridges and Culverts (50 m to 75 m span) | 3 | 321 | |
| 5. | Modern Survey Techniques including GIS/GPS & Total Station | 3 | 415 | |
| 6. | Quality Control, Materials Testing procedures and Laboratory practices | 3 | 402 | |
| 7. | Road Safety and Road Safety Audit for PMGSY roads | 3 | 290 | |
| 8. | Environmental and Social issues in rural road projects (World Bank+ADB States) | 3 | 116 | |
| 9. | Design of Flexible and Rigid Pavements | 3 | 287 | |
| 10. | Construction and Maintenance of Flexible and Rigid Pavements including new materials and technologies | 3 | 299 | |
| 11. | Preparation of DPRs (Cost Estimates) for Rural Roads | 3 | 303 | |
| 12. | Procurement and Contract Management for PMGSY rural road projects | 3 | 248 | |
| Following generic training programmes are proposed to be organized by the NIRD | | | | |
| 13. | Application of OMMAS Version 2.0 in PMGSY projects | 2 | 243 | |
| 14. | Training involving Contractors and their personnel for World Bank States (how to read DPRs and execute it) | 2 | 677 | |
| 15. | Training involving office bearers of PRI (Gram Panchayats, Blocks/Intermediate Panchayats) on Planning, Execution and Maintenance of PMGSY roads World Bank and ADB States | 2 | 165 | |
| 16. | Training programme on Road Side Tree Plantation | 1 | 545 | |
| 17. | Outreach programme to attract prospective Contractors in PMGSY projects | 1 | 1000 | |
| | TOTAL | | 7000 | |

Annex-2**Schedule for Release of Funds**

A. Development of Training Materials

- a. 50% shall be released at the time of approval to facilitate commencement of the assignment.
- b. 50% shall be released upon completion of the assignment.

B. Organising In-campus Training Programmes by IAHE/NIRD

- a. 50% shall be released at the time of forwarding nominations by NRRDA before commencement of the training.
- b. 50% shall be released upon completion of the training.

C. Organising Off-campus Training Programmes by IAHE/NIRD

- a. 50% shall be released at the time of approval and finalization of nominations by NRRDA before commencement of the training.
- b. 50% shall be released upon completion of the training.