7.1 Introduction
To assess the implementation of the PMGSY, Joint Physical Verifications of 528 roads in 173 districts of 28 states (except Nagaland) constructed at a cost of ₹1,223.76 crore were carried out by audit teams in the presence of staff of the implementing agencies. For this purpose, three roads completed during 2010-15 in each selected district were selected randomly. The verification covers execution of work as per laid down specifications, work abandoned mid-way, connectivity to the targeted habitation, maintenance of the road, installation of citizen information boards, PMGSY logo, planting of fruit bearing trees etc.

7.2 Summary of findings of joint physical verification
- 166 road works (31.44 per cent) were not constructed as per the length provided in DPRs which includes 112 cases where variation was more than 100 metres.
- 20 habitations were provided multiple connectivity.
- 15 road works were abandoned mid-way.
- Specifications of DPRs were not adhered to in 59 road works of which, in 44 cases approval of competent authority was not obtained.
- 46 habitations were not provided all weather road connectivity.
- 179 roads were not maintained.
- In 21 road works, boards/logos were not installed
- In 485 road works (91.85 per cent), fruit bearing trees were not planted
- Out of 71 road works requiring acquisition of land, in 13 road works, land was not acquired.
- 40 roads were not functional for traffic due to non-construction of causeways, culverts, bridges, to complete stretch, etc.
- In 77 road works, contracts were concluded without rectification of the defects.

Some specific cases of the joint physical verification are discussed in succeeding paragraphs.
7.3 Irregularities in providing connectivity to habitations

In eight states (Andhra Pradesh (one), Assam (nine), Bihar (five), Jharkhand (six), Mizoram (two), Rajasthan (one), Tamil Nadu (one) and Uttarakhand (eight)), connectivity to 33 ineligible habitations on account of ineligible population size, habitations already connected and habitations not forming part of CNW was observed. State-wise details are given in Annex-7.1.

7.4 Targeted habitations not connected

In five states (Assam, Bihar, Chhattisgarh, Jharkhand and Odisha), joint physical verification of roads showed that the targeted habitations were not connected due to hinderance in the alignment, deplorable condition of Through Route, non-construction of bridges, non-construction of road to the targeted habitations, etc. State-wise details are given in Annex-7.2. Some sample photographs are given below:
7.5 Incomplete/Poor construction of road works

In eight states (Arunachal Pradesh, Assam, Chhattisgarh, Jammu & Kashmir, Jharkhand, Manipur, Sikkim and Uttarakhand), road works were either not completed or roads were in deplorable condition due to poor quality of bituminous works, potholes, bridge works left incomplete, non-completion of the Bailey bridge\(^1\), defective cutting of hill side under Stage-I work. Further, defective road works were executed as shown in the photographs below and state-wise details are given in Annex-7.3.

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\(^1\) A type of bridge that provide flexibility of being constructed in a shorter span, ability to withstand loads of more than 100 MT and have a appreciable long life cycle.
7.6 Deficiencies in execution of works

In six states (Bihar, Himachal Pradesh, Jharkhand, Sikkim, Tamil Nadu and Tripura), during joint verification of completed works, instances of construction of road over existing PCC road, start point not as per CNW, provision of culverts instead of small bridge, non-construction of side drains/protection wall, non-provisions of desired number of culverts were observed. State-wise findings are given in Annex-7.4. Some sample photographs are given below:
7.7  Road work damaged due to poor/non-maintenance

Joint physical verification of roads constructed and completed under the programme showed that roads were not maintained properly and in deplorable conditions. Photographs taken during this exercise corroborates the poor status of the roads are given below:

- Non- construction of adequate number of cross drainage and poor construction in road Galak to Upper Rajwalta in Kathua district, Jammu and Kashmir
- Unpaved and without revetment of Rumehar-Lam road in Kangra district, Himachal Pradesh
- Deplorable condition of road ‘Baraigram to Pecharpur’, AS 13-36 due to non-maintenance in, Karimganj district, Assam
- Part of vented culvert at the chainage 1/800 of road ‘Kamboi Patel fallia’ washed away due to non-construction of pipes to allow the water to cross safely in Dahod district, Gujarat
Conclusion

During joint physical verification of completed roads, audit came across instances of multiple connectivity to habitations, abandonment of works midway, targeted habitations not connected, poor/incomplete construction, deficiencies in execution of works, non-functionality of roads due to non-construction of causeways, culverts, bridges, etc. and non-maintenance of roads which corroborates the audit findings as discussed in Chapter-4.