

सत्यमेव जयते

Prime Minister Gram Sadak Yojna (PMGSY) Rural Roads Scheme

Increasing livelihood security of rural
community through rural-urban connectivity
and accessibility



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OVERVIEW: RURAL ROADS



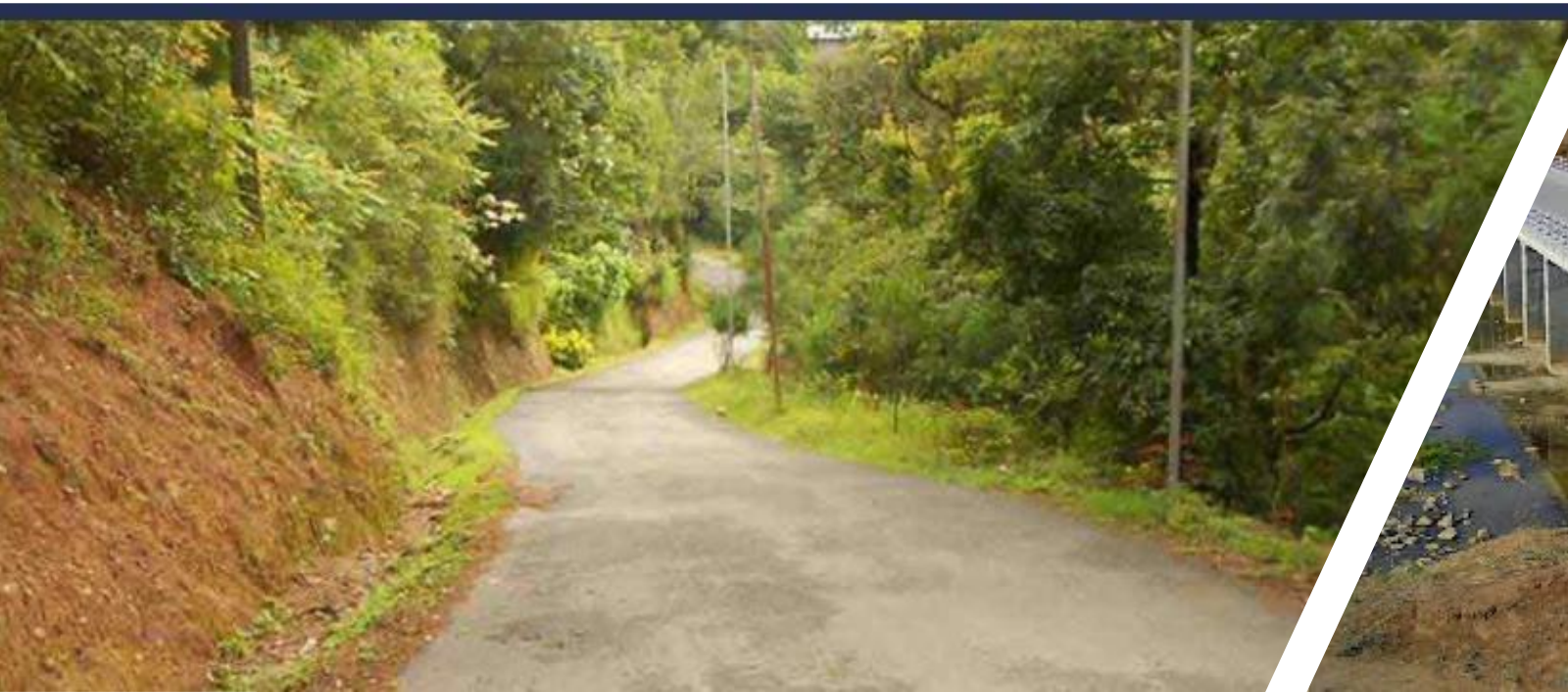
- India has one of the largest and densest road networks in the world, with a total of 6.2 million KM.
- Moreover, a large part of the 4.5 million KM network are of rural roads.
- The Government of India, as a part of the poverty reduction strategy, launched the Pradhan Mantri Gram Sadak Yojana (PMGSY) in 2000 with these twin objectives:
 - ✓ To connect unconnected habitations
 - ✓ To upgrade roads to give flip to rural economy
- Under PMGSY 700,000 KM road length sanctioned, and 660,000 KM constructed.
- 178,000 habitations connected, focus on backward areas.

Salient Features of PMGSY



- Decentralized, evidence-based planning
- Standards and specifications as per Indian Road Congress (IRC) and Rural Roads Manual
- Dedicated Implementation Mechanism: National , State and District level
- Detailed Project Reports (DPRs) scrutiny by State Technical Agencies, Principal Technical Agencies and Ministry
- Strong IT backbone for monitoring and implementation (OMMAS, GEPNIC, eMARG, GIS)
- Evidence based selection of roads through GIS application
- Three-tier Quality Management System
- Grievance Redressal Mechanism
- Unbroken flow of funds
- 5 year inbuilt maintenance included with performance guarantee of contractor







New & Green Technology Initiatives

- **Waste plastic**
- **Cold Mix Technology**
- **Cement treated sub-base/ base**
- **Nanotechnology**
- **Jute, Coir, cement/ lime stabilization**
- **Cell filled concrete**
- **Full Depth Reclamation(FDR) Technology**

Length Sanctioned	96,871 KM
Length Completed	59,543 KM

CELL Filled Concrete



Stretching of Plastic Cells with Lateral Confinement



Filling Concrete in Cells

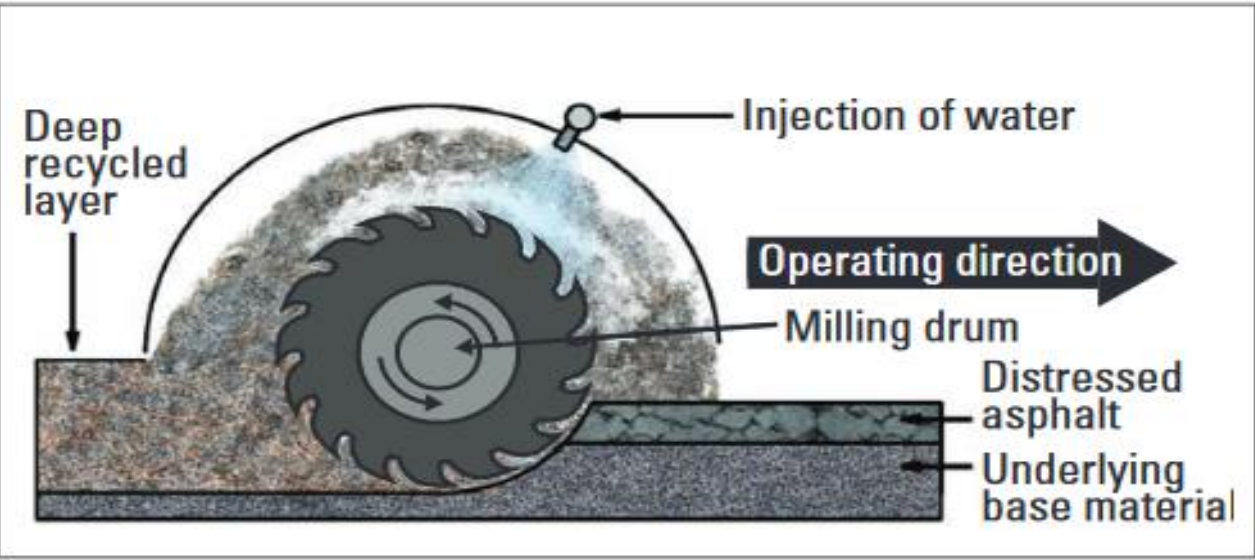


Using Plate Vibrator for Compaction



1:4 Finishing of Compacted Concrete with Cement Mortar

Full Depth Reclamation (FDR) Technology



Poverty & Social Impact Assessment of PMGSY



Conducted by World Bank in 2014

- Greater mobility causing people to seek employment opportunities outside their village.
- Expansion of economic opportunities, incomes are becoming higher.
- Local demands are better met.
- Equal opportunity for men & women to take up their work.

Study of Improved Rural Road Maintenance System



Conducted by ILO in 2015

- Improved road connectivity has impacted the cultivation choices and improvements in cropping patterns.
- Improved information and better market access.
- Significant savings in travel time and cost to reach the markets.
- Increase in income for many households engaged in farming, trading, transport and other services.

Impact Evaluation of PMGSY

Conducted by World Bank in 2018



A study was conducted to assess impact evaluation of PMGSY using a difference-in-difference approach

- Improved accessibility, particularly in hilly areas and reduction in travel time.
- Increased access to economic opportunities, triggering a change in the structure of employment in rural India.
- Shift from farm to non-farm employment, particularly non-farm employment outside the habitation.
- PMGSY roads had a positive impact on human capital formation in rural India, with boys and girls benefiting equally.

Other Impact Assessments of Rural Roads

(Social/ Economic)



- Better education opportunities to the children, particularly the girl child, to continue their education beyond the elementary school level.
- Health facilities accessible to people. Women have been the major beneficiary, with most of the childbirth taking place in government hospitals.
- Women's participation in social and political gatherings had increased because of improved transport facility.
- Women's participation in financial decisions has increased and it is reflected in their market accessibility.
- Long-term and sustained boost in the living standards of rural populations.

Our Vision & Way Forward



Bring connectivity to unconnected habitations and maintaining connectivity status of the habitations already connected.



Adoption of New Technology in road construction which results in saving of natural resources.



Policy and incentives to run intelligent transport services on newly upgraded or constructed PMGSY roads to have multiplier effects.



Mainstreaming of R&D & Climate Resilient Technologies.



Thank You