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

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<tbody>
<tr>
<td>Length Sanctioned</td>
<td>96,871 KM</td>
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<tr>
<td>Length Completed</td>
<td>59,543 KM</td>
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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

Deep recycled layer

Injection of water

Operating direction

Milling drum

Distressed asphalt

Underlying base material
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 Word 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