DESIGN AND MONITORING FRAMEWORK FOR TRANCHE 2

Impact the Program is Aligned with

Mobility and accessibility in India improved (India: Three Year Action Agenda, 2017–2018 to 2019–2020)^a

	Performance Indicators with	Data Sources and Reporting	
Results Chain	Targets and Baselines	Mechanisms	Risks
Outcome Rural connectivity in Madhya Pradesh improved	By 2023: a. Average travel time on PMGSY-II roads in Madhya Pradesh reduced by 20% (2017 baseline: 2.5 minutes per km)	a.–b. RRNMU annual report and annual socioeconomic impact report	Extreme weather conditions beyond projections cause significant damage to the project roads
-	b. Use of roads upgraded to PMGSY-II standard increased to 2.41 average daily million vehicle-kilometers in the first full year of operation (2017 baseline: 1.89 million vehicle-kilometers)		
Outputs 1. Rural roads in Madhya Pradesh improved	By 2022: 1a. At least 2,800 km of rural roads upgraded to all-weather standards with climate resilient features in accordance with PMGSY-II guidelines ^b (2017 baseline: 0 km)	1a. OMMAS of PMGSY	Low response by contractors during the initial stage of procurement
	 1b. At least 15% of total length constructed used innovative approaches^c (2017 baseline: 0) 1c. At least 33% of workers hired in road construction works are women (2017 baseline: 0) 	1bc. TSC report	
2. Institutional capacity of PMGSY implementing agencies strengthened	By 2022: 2a. At least 500 PMGSY engineers (at least 15% women) reported increased knowledge and skills on rural road development, road maintenance, and road safety (2017 baseline: 0)	2a. RCTRC annual report	
3. Safety of PMGSY roads sustained	By 2022: 3a. Road safety audits completed for 100% of project roads at design, construction and operational stages (2017 baseline: 0)	3a.–c. PIC and TSC reports	

Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks
	3b. 100% of the recommendations from road safety audits implemented (2017 baseline: not applicable)		
	3c. At least 4,000 students (at least 40% girls) reported increased understanding on road safety (2017 baseline: 0)		
	3d. Road safety impact study on selected investment program roads conducted (2017 baseline: not conducted)	3d. Report on road safety impact study	

Key Activities with Milestones

1. Rural roads in Madhya Pradesh improved

- 1.1 Select PMGSY-II roads in Madhya Pradesh and consult with communities along the selected roads, especially women, through transect walks by November 2017.^d
- 1.2 Secure approval of the selected roads from MORD's Empowered Committee by January 2018.
- 1.3 Ensure that DPRs are cleared by TSC 1 month before submitting PFRs to ADB.
- 1.4 Award all civil works contracts by November 2018.

2. Institutional capacity of PMGSY implementing agencies strengthened

2.1 Roll out training program by August 2018.

3. Safety of PMGSY roads sustained

- 3.1 Conduct road safety audit at design stage by January 2018, and at construction and operation stages by December 2022.
- 3.2 Conduct safety awareness sessions for schools and rural communities by December 2022.
- 3.3 Conduct road safety impact study on selected roads by December 2022.

Inputs

ADB: \$110 million (loan)

Government: \$193 million

ADB = Asian Development Bank, DPR = detailed program report, km = kilometer, MORD = Ministry of Rural Development, OMMAS = online management, monitoring, and accounting system, PFR = periodic financing request, PIC = program implementation consultant, PMGSY = Pradhan Mantri Gram Sadak Yojana (Prime Minister's Rural Road Program), RCTRC = rural connectivity training and research center, RRNMU = rural road network management unit, TSC = technical support consultant.

- ^a Government of India, National Institution for Transforming India Aayog. 2017. <u>India: Three Year Action Agenda,</u> <u>2017–18 to 2019–20</u>. New Delhi.
- ^b The rural road design will include climate change adaptation measures, such as increased capacity of side and cross drains, and slope protection.
- ^c Including the use of asphalt cold-mixing method, chemical for waterproofing of subbase course, plastic waste and paneled concrete pavement.
- ^d Based on the gender action plan, 20% of participants in the transect walk are women.

Source: Asian Development Bank.