



Anhui Road Maintenance Innovation and Demonstration Project (P153173)

EAST ASIA AND PACIFIC | China | Transport Global Practice |
IBRD/IDA | Investment Project Financing | FY 2017 | Seq No: 10 | ARCHIVED on 27-Jun-2022 | ISR51592 |

Implementing Agencies: Anhui Highway Management and Service Center, Anhui Provincial Transport Department, International Economic and Financial Cooperation Dept., Ministry of Finance, PRC

Key Dates**Key Project Dates**

Bank Approval Date: 21-Feb-2017

Effectiveness Date: 17-Aug-2017

Planned Mid Term Review Date: 01-Jul-2020

Actual Mid-Term Review Date: 01-Jul-2020

Original Closing Date: 31-Dec-2023

Revised Closing Date: 31-Dec-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective (PDO) is to improve highway maintenance delivery and asset management capacity in the participating municipalities and county in Anhui Province.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Component A: Road Asset Management System Upgrade:(Cost \$1.31 M)
Component B: Road Maintenance Commercialization:(Cost \$131.71 M)
Component C: Innovative and Preventive Maintenance Technologies:(Cost \$111.90 M)
Component D: Emergency Response Capacity:(Cost \$11.54 M)
Component E: Institutional Capacity Building:(Cost \$0.94 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The Project has made a steady progress since last mission in January 2021. By October 25, 2021, 37 contracts had been procured and signed with RMB1,161.35 million contract prices. A total of RMB646.2 million investments had been completed, which accounts for 55.6% of the contract prices. In addition, the Project has 3 contracts under procurement, and the bidding documents of another 5 contracts are being finalized and scheduled to procure all the contracts before the end of December.

The Project consists of five components. For Component A, the road asset management system (RAMS) has been improving based on feedbacks from trial operation and used by road authorities to manage maintenance works. For Component B, all the 6 OPRC contracts were procured and are under implementation. A total of RMB41.95 million investment has been completed. For Component C, 24 contracts were signed and piloted 11



maintenance technologies to improve maintenance quality, enhance climate resilience of roads, and reduce maintenance costs. 22 of the 24 signed contracts have completed, and 2 contracts are under implementation. In addition, the bidding documents of the remaining contract have been developed. For Component D, the procurement of three goods contracts is ongoing. The bidding documents of the remaining 3 contracts have been finalizing based on market survey and are scheduled to commence procurement before November 10. For Component E, the Project completed a total of 26.85 person-months of various trainings. The consulting service contract of assessing fund requirements and providing sustainable funding for road maintenance is ready for procurement.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	Low	Low	Low
Macroeconomic	Moderate	Moderate	Moderate
Sector Strategies and Policies	Moderate	Moderate	Moderate
Technical Design of Project or Program	Substantial	Moderate	Moderate
Institutional Capacity for Implementation and Sustainability	Substantial	Substantial	Substantial
Fiduciary	Substantial	Moderate	Moderate
Environment and Social	Moderate	Moderate	Moderate
Stakeholders	Moderate	Moderate	Moderate
Other	--	Moderate	Moderate
Overall	Substantial	Moderate	Moderate

Results

PDO Indicators by Objectives / Outcomes

improve highway maintenance delivery				
▶ 1. Roads in good and fair condition (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	60.00	89.10	89.10	90.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023



▶ 2. Emergency events, under the jurisdiction of the emergency centers, responded to within required time limits (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	80.00	80.00	92.00	95.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

▶ 3. Proposed rehabilitation and periodic maintenance works program based on the recommendations of the asset management system (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	35.00	70.00	75.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

improve asset management capacity

▶ 4. Highway asset management capacity (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	29.00	65.00	70.00	80.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Intermediate Results Indicators by Components

Component A: Road Asset Management System Upgrade				
▶ 1. Road Asset Management Systems are updated (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023
▶ 2. Decision-making "To Be" model developed and operational (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	Yes	Yes
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Component B: Road Maintenance Commercialization				
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▶ 3. Length of roads improved/maintained by PBC (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	87.00	100.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	30-Jun-2023

▶ 4. Road safety measures implemented as part of the maintenance delivery (% coverage of sections with rehabilitation) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	45.00	100.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Component C: Innovative and Preventive Maintenance Technologies				
▶ 5. New maintenance technologies and materials applied in project roads (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	85.00	84.00	100.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

▶ 6. Manuals covering all technologies prepared and disseminated (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Component D: Emergency Response Capacity				
▶ 7. Maintenance emergency response centers are established (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	2.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

▶ 8. Emergency centers with updated equipment (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	2.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023



Value	0.00	0.00	0.00	6.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Component E: Institutional Capacity Building

▶ 10. Person-months of staff trained (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	26.85	27.00	110.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

□ Women trained (sub-indicator by gender) (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	15.40	15.00	15.00

▶ 11. Citizen Engagement: Public uploads in CRAMS responded to (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	95.00
Date	12-Apr-2016	25-Oct-2021	31-Dec-2021	31-Mar-2023

Performance-Based Conditions

Data on Financial Performance

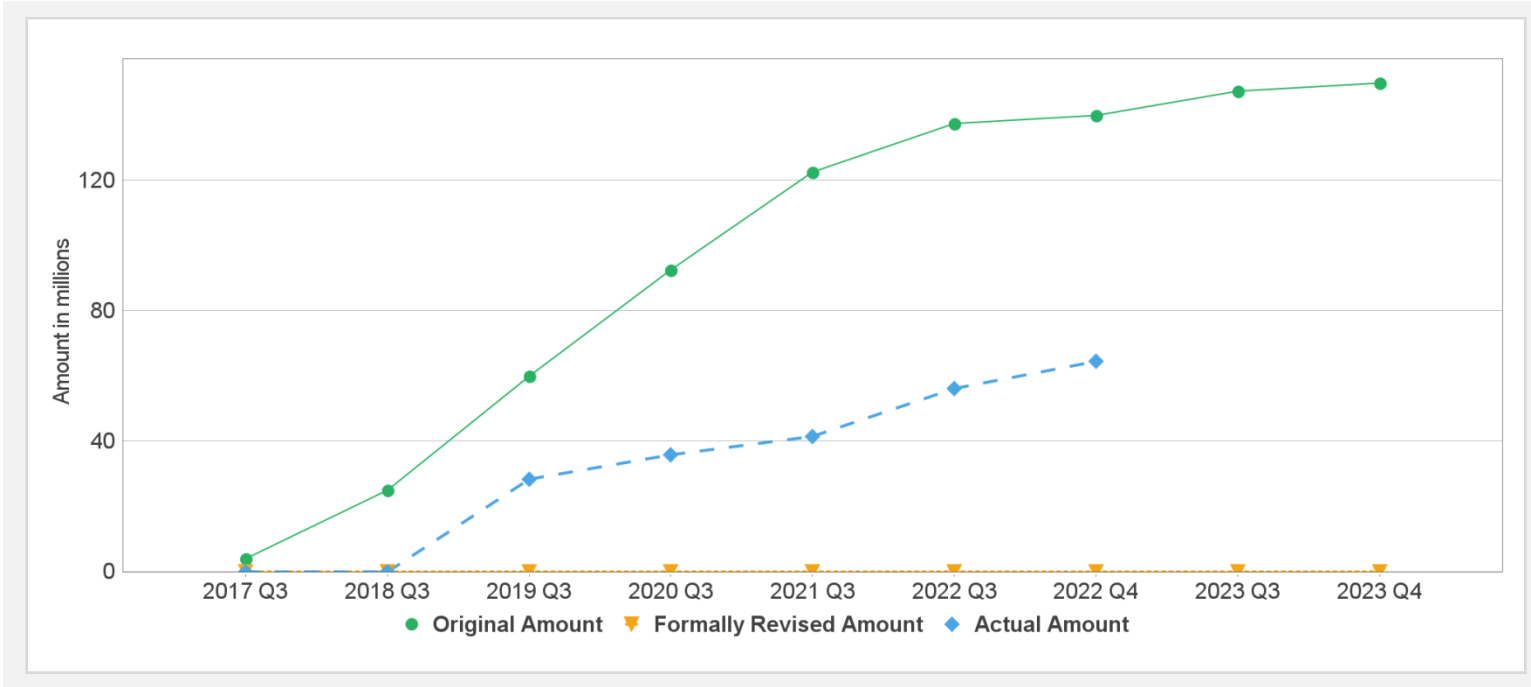
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P153173	IBRD-87030	Effective	USD	150.00	150.00	0.00	65.00	85.00	43%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P153173	IBRD-87030	Effective	21-Feb-2017	11-Apr-2017	17-Aug-2017	31-Dec-2023	31-Dec-2023

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.