

India: Madhya Pradesh Rural Connectivity

1. Project Information

Project ID:	P000020	Instrument ID:	L0020A							
Member:	India	Region:	Southern Asia							
Sector:	Transport	Sub-sector:	Roads							
Instrument type:	⊠Loan:124.40 US Dollar million □Guarantee	Lead Co-financier(s):	World Bank							
ES category:	В	Ministry of Finance, India								
Implementing Entity:	Madhya Pradesh Rural Road De	evelopment Authority (MPR	RDA)							
Project Team Leader:	Anne Ong Lopez									
Responsible DG:	Rajat Misra									
Responsible Department:	INF1									
Jyosyula Siva Rama Krishna Sastry, OSD - Environment & Social Development Specialist; Liu Yang, Project Counsel; Rui Xiang, OSD - Financial Management Specialist; Guoping Yu, OSD - Procurement Specialist; Chang Tian, Project admin										
Completed Site Visits by AIIB:	Aug, 2018 Feb, 2019 Mar, 2021 Virtual mission with WB (lead fi May, 2022 Virtual mission with WB (lead fi Feb, 2023 Jul, 2023		1							
Planned Site Visits by AIIB:	Sep, 2023 exact date TBD									
Current Red Flags Assigned:	0									
Current Monitoring Regime:	Regular Monitoring									
Previous Red Flags Assigned:	0									
Previous Red Flags Assigned Date:	2023/01									

2. Project Summary and Objectives

The objectives of the project are "to improve durability and enhance resilience to climate changes of the gravel surfaced rural roads in Madhya Pradesh while building the capacity of the state to manage its rural road network and road safety". These objectives are expected to be achieved by upgrading the gravel surfaced roads to a sealed surface standard; providing additional road linkages to villages with potential for economic growth; enhancing the rural road asset management system; developing a road accident data management system and road safety improvement program; and supporting road design, construction/implementation, and road asset management. The objectives are aligned with the Bank's priorities of enhancing economic growth and sustainability through infrastructure investment.



Reporting Period From 2023/02 To 2023/06

3. Key Dates

Approval:	Apr. 11, 2018	Signing:	Jun. 24, 2018
Effective:	Jul. 17, 2018	Restructured (if any):	Mar. 15, 2023
Orig. Closing:	Mar. 15, 2023	Rev. Closing (if any):	

4. Disbursement Summary (USD million)

Contract Awarded:	465.71	Cancellation (if any):	15.60
		Most recent	
Disbursed:	118.59	disbursement	0.69/Aug. 09, 2023
		(amount/date):	
Undisbursed:	5.81	Disbursement Ratio	95.33
	5.61	(%) ¹ :	95.55

5. Project Implementation Update

The project progress is consistent with around 95.33% of the loan disbursed within 60 months of implementation. The progress of civil works remains satisfactory with respect to the provision of physical connectivity i.e., 93.33% of works completed under A1 and 88.64% of works completed under A2 in Component A. The progress on institutional strengthening activities and road safety particularly related to the pilot community participatory road safety program (CPRSP) has been stepped up by the PIU since the previous PIMR. Remaining ongoing activities are expected to be completed by September 2023. PIU will share a sustainability plan for the CPRSP activities to mainstream the experience in other districts in Madhya Pradesh.

Components	Physical Progress	Environmental & Social Compliance	Procurement
Component A: Component A.1: Road Upgrading, Construction and Maintenance	As of June 30, 2023, 93.33% of the sanctioned length (10,455 out of 11,202 kilometers) has been completed. This progress includes 2,358 km which have been upgraded using waste plastic technology.	Respirable Dust Monitoring: Endline assessment done on 96 roads. After BT, the dust concentration for the selected roads is below 100 µg/m3 for PM10 which is the limit prescribed by India Central Pollution Control Board (CPCB). Enhancements: Through consultation and involvement with the local communities during the execution of works, several small and local mitigation and environmental enhancement works have been implemented. They include (i) provision of ramps/extended approaches to utility centers; (ii) improvement of cattle troughs, wells, hand pumps, and other water sources; and (iii) safety	Total Packages: 743 (11,202 kilometers) Awarded Packages: 743 (11,202 kilometers) Completed Packages: 609 (10,409 kilometers)

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¹ Disbursement Ratio is defined as the volume (e.g. the dollar amount) of total disbursed amount as a percentage of the net committed volume.





provisions within settlements and near sensitive receptors, amongst other provisions.

Waste plastic technology: 1 ton plastic is used for each km, reducing bitumen consumption by 8%. The construction of 1km road with waste plastic will reduce the 810cu ft of landfill space.

Labor generated by construction: In the period between January 2018 to June 2023, the project has provided work to 48,776 laborers comprising 29,589 men and 19,147 women. No fatalities have been reported arising from construction works.

Indigenous people: 357 roads with a total length of 799 km have been taken up across 61 tribal blocks, benefiting a total population of 131,647 people as per Census 2011 figures. Free Prior and Informed Consent (FPIC, WB) was conducted in these tribal villages and broad community consent was obtained. In 266 roads in tribal villages, enhancements in form of approach roads (7.8 km) connecting key infrastructures such as schools (toilet, kitchen, etc.), religious places, Anganwadi, primary health center, and Panchayat, have been provided.

Women Self-Help Group (WSHG) in off- carriageway maintenance: Work has been completed for all 5 roads and presently 5 WSHGs are working. Five SHGs involving 54 women in three tribal districts are engaged and the experience has been very positive. Based on this success, MPRRDA is replicating this practice. Further 5 roads in 2 packages are selected in Dhar district. Work completed in 2 roads and 2 WSHGs are working. In the remaining 3 roads, WSHG's identification process is in progress. In terms of sustainability, WSHG is being mainstreamed in post-five and post-ten-year routine maintenance funded under state





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		programs.	
Component A.2: Provision of Alternate Connectivity	As of June 30, 2023, 88.64% of the sanctioned length (476 out of 537 kilometers) has been completed. This includes 62 km using cement concrete and 22 km using waste plastic technology.	As above	Total Packages: 79 packages (537 kilometers) Awarded: 79 packages (537 kilometers) Completed Packages: 68 (467 kilometers)
B. Institutional Development B1: Rural Roads Asset Management System (RRAMS)	MPRRA (Madhya Pradesh Rural Road Academy) and pilot RRNMU (Rural Road Network Monitoring Unit) are established, and 6 more RRNMUs have been developed at divisional level. The RRAMS system is a comprehensive, webbased and GIS-enabled application which includes various modules such as Road Information System, Bridge Information System, Pavement Management System, Project Information System, Right of Way Features Information System, Right of Way Features Information System, Web-GIS, report module including Linear Referencing Management System and System Admin tools. A mobile application for data collection and uploading has also been developed. RRAMS system development has been completed and further 1-year warranty period is in progress.	Improvements suggested to include environmental and social attributes in the RRAMS. Information/module on environmental aspects, including roads constructed using new technologies and alternative construction materials, proximity from environmentally protected areas like national parks and wildlife sanctuaries, avenue plantations, road furniture, etc. are incorporated in RRAMS.	A RRAMS consultant was engaged to study the gap between RRNMU and the existing rural roads asset management system; suggest a suitable and customized RRAMS that provides a systematic process for maintaining, upgrading, and operating assets; and assist MPRRDA in implementation. The consultant completed the project task and activities assigned in Nov 2022. Further 1-year warranty period is in progress. Tender has been floated for data collection and uploading of 15,000 km high priority rural roads. One Lot was awarded and completed for 5000 kms. Balance work for 10,000 km (2 lots) is in progress and this will be completed by September 2023.



	rural roads of about		
	5,000 km length was		
	completed and		
	necessary validation		
	data has been uploaded		
	to the RRAMS		
	application. Further		
	data collection for		
	15,000 km high priority		
	roads is ongoing, of		
	which 5,000 km has		
	been completed and		
	uploaded.		
	Training workshops for		
	PIU staff of MPRRDA		
	have been completed.		
B2: Strengthening	Strengthening design: A	Training courses through reputable	All procurement activities
Design, Research	Design cell has been	institutions are recommended in	under this component are
and Quality	established at MPRRA in	climate resilience, green	completed in August 2023.
Assurance Capacity	Walmi, Bhopal.	technologies.	
	Bridge software MIDAS		
	has been procured. An		
	E-learning management		
	system (LMS) has been		
	developed by MAP-IT		
	(state agency) and nine		
	modules have been		
	uploaded and balance		
	are in progress on the		
	website.		
	Research Capacity:		
	There is a dedicated		
	staff led by a chief		
	· ·		
	engineer, and a full-		
	equipped material		
	testing lab has been		
	established.		
	Tuaining and Court		
	Training and Capacity		
	Building: Various		
	trainings have		
	conducted. These		
	included road safety		
	audit by IIT Kharagpur in		
	July 2022 (35		
	engineers); pavement		
	design, construction,		
	evaluation and new		
	technologies by CRRI		
	Delhi in Nov 2022 (35		
	engineers); design of		
	bridge and foundation		
	for MPRRDA Officials at		
	101 WII NINDA Officials at		<u> </u>



	Bhopal by CRRI, Delhi in Feb 2023 (100 engineers); pavement design by CRRI Delhi in Feb 2023 (60 engineers); Midas software (bridge designing software) in April and May 2023 (49 engineers).		
C. Road Safety Management Capacity Development C1: Development of Road Accident Database Management System (RADMS)	Ministry of Road Transport and Highways (MoRTH) launched the IRAD (integrated road accident database) in January 2020 for all states (including Madhya Pradesh) and accident reports were generated for 1.30 Lacs until Nov. 30, 2022 by the police department through that system. Training on use of system also imparted by NIC to all concerned department on use of the system.	Consultations with relevant stakeholder agencies is being done to identify the additional roll-out requirements for the community mobile application.	MPRRDA opted to use MoRTH's IRAD with customization for Madhya Pradesh. MPRRDA has engaged a road safety consultant for all road safety activities including but not limited to customization of IRAD software for the state.
C2: Pilot Comprehensive Road Safety Program (PCRSP) C2.1: Road Safety Engineering (Technical Assistance, Road Safety Engineering Interventions) C2.2: Enforcement (Technical Assistance, Equipment for Road safety Engineering) C2.3: Post-Crash Emergency Management (Technical Assistance, Equipment and Trauma Care Facilities) C2.4: Road Safety	Dhar, Indore and Datia are identified as the pilot districts under the PCRSP. The implementation of different activities under the program are progressing. Education: Campaign agents have been deployed and working with activities implemented through Road Safety Working Groups and volunteers. Enforcement: Procurement of road safety equipment for Police department has been completed, while training of police officials on implementation of road	Preparation of DPRs and Bid Documents was completed for (i) black spot improvement, (ii) model urban streets design for 3 cities/towns, and (iii) one road under SCDP. As per suggestion (i) consultations with key stakeholders and environmental analysis/assessment for said works (scope varies for the three categories) were conducted and documented and, (ii) preparation of Environmental Management Plan were completed and shared with Bank, along with the necessary inclusion in the Bid Documents, as appropriate to the specific context. Scope of work has been done. Social Impact Assessment was conducted on SCDP and Urban Streets, including analyses of options to avoid/minimize impacts and consultations with all stakeholders particularly affected	The PCRSP Consultancy firm was appointed in March 2021. SCDP work has been awarded and work is in progress. 3 Urban Street work has been awarded and work is in progress. 9 Black Spots have been awarded and work is in progress. 2 black spots are treated under SCDP Dhar and 1 black spot is treated under Urban street Dhar. Campaign agents (6 lots) have been deployed.



Awareness	completed.	All efforts were made to	
		avoid/minimize impacts on assets –	
	Engineering works on	land, structures, and other	
	Safe Corridor	property.	
	Demonstration		
	Programme (SCDP) in	The component follows an	
	Dhar district, 3 urban	integrated approach to road safety	
	street corridors and 12	involving various stakeholders	
	blackspot	including the Health department,	
	improvements are	MP Road Development	
	ongoing.	Corporation, MP Industrial	
		Development Corporation, PWD,	
	Emergency	Transport, Police, Indore Municipal	
	Management:	Corporation.	
	Procurement of health		
	equipment to upgrade		
	district hospital has		
	been completed.		
	Training of doctors,		
	nurses and all health		
	workers also		
	completed.	2000	D140: 1 1:
D. Design,	Project Management	PMC support for MPRRDA relates to	PMC is on board since June
Implementation	Consultant (PMC) is in	the following:	2017 and their services have
and Project	place since June 2017,	Radio program, Jahan Rada Cadam	been extended until
Management	and their services have been extended to	Radio program: Jahan Pade Qadam Saavdhani Har Dum, an awareness	December 15, 2023.
Support	been extended to support MPRRDA in	program on Road Safety and COVID	
	project	19 – Health and Safety Measures for	
	implementation.	enhancing Self Protective Behavior	
	Project Implementation	for the staff and workers engaged in	
	Consultant (PIC) was	rural road construction sites.	
	deployed in February		
	2018 to assist PIU and	Behavior change communications:	
	PMC for effective	Communications around behavioral	
	monitoring and	changes towards - better road	
	enhanced coordination.	maintenance, improved road	
		safety, reduced road damages,	
	As a project	avoided road congestions are being	
	management tool, e-	conducted in 5 roads of Dhar	
	Marg is being used as a	district.	
	monitoring and		
	payment gateway for	Education: Raising awareness to	
	the roads under	laborers and the communities on	
	different stages of	HIV/AIDS. Thus far, 41990 persons	
	maintenance.	including 25347 males and 16643	
	GEOREACH (geomatics-	females have been sensitized. 3985	
	based rural roads	Marg Mitras (2377 male and 708	
	enterprise application	female) support the designated PIU	
	for connection habitations) is also used	officer to help keep the roads clean.	
	as an online monitoring	Labor participation: Contractors	
	system adopted by	were sensitized on gender issues	
	MPRRDA for monitoring	and it was suggested they employ	
	the physical and	women in road construction work.	
	financial progress of the		
	arrorar progress or the	<u> </u>	<u> </u>

Reporting Period From 2023/02 To 2023/06

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project.

Students: Preliminary statistics show positively that MPRCP roads have provided confidence and opportunity for girls to bike to high school, in a broader spectrum it has scaled up the attendance level and also inspire more girls to continue with schooling. Data has been collected and consolidated for 3,805 roads. 83% girls are shifting from walking to biking, which is above the end target of 80%.

Enhancements: Developed a format to consolidate data and record the incurred cost in extending the facility of convenient mobility to the village.

Training on E&S management has been provided to: (a) 109 Assistant Managers/Designated Safeguard officers; (b) 56 consultants working on Alternate Connectivity roads and, (c) field coaching to 75 safeguards officers.

Financial Management:

MPRRDA continues to provide timely and accurate financial information. Unaudited Interim Financial Reports are submitted in a timely manner to facilitate frequent drawdown of funds. Overall, the project progress is consistent with 95% of the loan disbursed. The external audit report for FY2021-22 has also been timely submitted with a clean audit opinion issued on the financial statements of the project. The report was deemed to be acceptable to WB and AIIB. The audited financial statement for FY 2022-23 has a deadline for submission due on Dec 31, 2023.

6. Status of the Grievance Redress Mechanism (GRM)

5,331 village level GRCs (5,146 under A1 and 187 under A2 component) were established comprising 37,317 village persons including 14,940 females. Thus far, the project has redressed all 318 grievances have been resolved at PIU and village level committee respectively. Nature and type of grievances received include clogged drain, water logging, culvert, issues relating to the contractor' work, theft of caution board, community clashes, etc. Average time taken to resolve such grievances is six days though it varies depending on the nature of grievance. Further there are challenges such as the non-availability of GRC members to conduct meeting etc. Further village GRC dissolves itself after the construction of roads. Hence in such cases, for any road-related grievance, the community, or an individual needs to communicate directly with the PIU through the available contact number.

7. Results Monitoring (please refer to the full RMF, which can be found on the last page of this PIMR)

The information was provided by the client in July 2023 as part of the Tripartite Portfolio Review Meeting (TPRM) for AIIB Financed Projects in India.

Remarks:





			Cumula	tive Target Values																		
Project Objective Indicators	Indicator level	Unit of Measure	Baseline	•	2018		2019		2020		2021		2022		2023		End Tai	rget		Frequency	Responsibility	Comments
			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year	Target	Actual			
Annual maintenance cost per km	Project	USD	2018	1000	1000		0		0		750		750		750			750		Annual	MPRRDA and Supervision Consultants	The baseline value is derived from maintenance expenditure of sample gravel roads candidate for upgrading under the project. Actual maintenance expenditure is collected from completed project road after the first year of maintenance is completed on sample (about 10 percent) project roads. Gravel road maintenance INR 3.46 lac per km for 5 yrs. (i.e., 922 USD/yr); BT road maintenance INR 2.39 lac per km for 5 yrs (i.e., 637 USD/yr).
Roughness index (m/Km)	Project	Meter	2018	7	7			3.2- 3.7	3.5	2.67- 3.78	3.5	2.67- 3.78	3.5	2.67-3.78	3.5	2.67- 3.78		3.5		Annual	MPRRDA	Roughness conducted in 400 gravel roads of 52 districts where minimum 4.43 and maximum 14.68 IRI was recorded. After 8.T. roughness conducted on 240 roads where minimum IRI 2.67 and maximum 3.78 was recorded. As per Indian Road Congress (IRC SP-16-2019), the IRI for Open Graded Premix Carpeting on rural road in good condition is 4.02.
Rural road asset management system developed and in use	Project	N/A	2018	No fully GIS based network inventory data, no scientifically	No fully GIS based network inventory data, no scientifically									RRAMS Developed. Further 1- year warranty period is in	Prioritized maintenance network investment plan – approved by			Prioritized maintenance network investment plan – approved by		Annual	MPRRDA	RRAMS Developed. Further 1-year warranty period is in progress. 5000 km RAMS

				based maintenance prioritization	based maintenance prioritization							progress. 5000 km RAMS data collected and uplo	competent authorities		competent authorities			data collected and uploaded. Data collection for additional 15000 km is in progress, of which 5,000 km has been completed.
Share of the state highway network (about 11, 000 km SH and 20,000 km MDR) covered under RAD	Project	Percentage	2018	0	0		10	N/A	50	N/A	80	N/A	100	N/A	100	Annual	Home Department, MPRDA	IRAD has been developed at the national level, and Madhya Pradesh is selected as a pilot state. Data is being populated by all Stakeholders.

			Cumu	lative Target Valu	ıes																	
Project Intermediate Indicators	Indicat or	Unit of Measure	Baseli	ne	2018	18 20:		2019		2020		2021		2022			End Target			Freque ncy	Responsib ility	Comments
	level		Yea r	Value	Target	Actu al	Target	Actual	Target	Actual	Target	Actual	Targe t	Actual	Target	Actual	Ye ar	Target	Actu al	•		
Roads constructed - rural	Projec t	km	201 8	0	0		2000		3500		4150		750		110			10470		Quarter ly	MPRRDA	
Roads upgraded to bituminous surface	Projec t	km	201 8			4888	2000	2239	3500	921	4000	350	500	1821		10445		10470		Quarter ly	MPRRDA	Upgradati on of 10,445 km completed
New road construction (multiple connectivity)	Projec t	km	201 8			691					150	170	250	255	110			490		Quarter ly	MPRRDA	New road constructi on completed for 476 km.
Length of roads on which alternative surfacing technology piloted	Projec t	km	201 8					785	500	1108	1000	1889	600	2065				2100		Annual	MPRRDA and supervisio n consultant s	2,358 km.
Rural population connected by all-weather paved roads	Projec t	Number	201 8	35,000,000	35,000,000		150,000	682,000	600,000	370,000	600,000	1,347,033	150,0 00	724,740				36,500,000		Annual	MPRRDA	The total rural population connected by all-weather paved

																			road is 37,815,58 8.
Percentage of high school girls shifting from walking to biking to schools	Projec t	Percentage	201 8	10	10								83			80	Annual	Consulting firms and MPRRDA	Data has been collected and consolidat ed for 3805 roads. This is 103% achievement beyond the target.
Dust concentration in the ambient air along the Project roads	Projec t	Microgram /m3	201 8	0	0		Baselin e survey complet ed	0	PM10 measurem ent on bituminou s road has been done. The end target to be fixed.	0	Maximum value was achieved in Neemuch 91.98, and Minimum was Khandwa 49.92, mean value of PM10=66. 77	0		0		0	Once after each of the sample roads are complet ed	MPRRDA through a firm	Baseline assessmen t done on 100 roads. Maximum Value was achieved in Neemuch 91.98 and Minimum was Khandwa 49.92 and mean value of PM10 is 67.56 before BT. End line assessmen t done on 96 roads. Maximum Value was achieved in Katni 76.61 and Minimum was Chhindwar a 40.98 and mean value of PM10 is 57.34 after BT.
Number of Women's Self-Help Groups (SHGs) engaged in post construction maintenance contracts	Projec t	Number	201 8	0	0			2	A tri- partite agreemen t is signed between PIU, SRLM (State Rural Livelihood Mission), and SHG.	5	5	5	5	5	7	5	Quarter ly	MPRRDA	7 WSHGs Working (Achievem ent of 140% since only 5 WSHGs has been targeted). 74 Women (Achievem ent of



																			148% beyond the target of 50 women) are working in off carriagewa y maintenan ce.
Number of women participating in road maintenance within SHG	Projec t	Number	201 8	0	0			20	N/A	50	N/A	50	54	50	74	50	Annual	MPRRDA	74 Women (Achievem ent of 148% beyond the target of 50 women) are working in off carriagewa y maintenan ce.
Rural roads asset management system developed	Projec t	N/A	201	No comprehen sive network based asset manageme nt system	No comprehen sive network based asset manageme nt system	Procurem ent of system definer (SD) consultant t for RRAMS advanced	Consult ant for the gap analysis of RAMS is on board.	(i) SD consultant in place and defining the RRAMS system requirements; (ii) Procurement of System Pr		(i) RRAMS develope d and data for 10,000 km of rural roads entered and RRAMS tested; (ii) Procurem ent	Consultan t for gap analysis hired but could not be mobilized due to the challenges of Covid- 19. TOR		RAMS developed and data for 5000 km of rural roads entered and RAMS tested	GIS based network data and informat ion collected for about 116,000 km rural roads	RAMS develop ed and data for 5000 km of rural roads entered and RAMS tested.	Comprehen sive network based asset manageme nt system developed	Annual	MPRRDA	High Priority Roads are approxima tely 18000 km. Along with developm ent of RRAMS, consultant has collected data for S000km that included some High Priority roads. Further tender for balance 15000 km was floated region- wise breaking it into 3 lots of 5000 km each. Hence by end of project total RRAMS data of 20000 km will be

																			uploaded in the system.
Design and research unit established in MPRRDA	Projec t	N/A	201 8	No design and research unit in MPRRDA	No design and research unit in MPRRDA			Organizati onal structure, staffing plan and functional manual prepared	RCTRC (MPRRA) and design cell have been establishe d in Walmi, Bhopal.	Design unit set up and becomes operation al	List of activities for further strengthe ning of the design & research cell to be prepared		Ongoing process for software procurem ent, laboratory equipmen ts, and e-LMS.			A functional design and research unit is in place	Annual	MPRRDA	
Number of Gram Panchayats reporting on road traffic crashes	Projec t	Number	201 8	0	0					100	N/A	400	N/A		N/A	500	Annual	Home Departme nt, Traffic Police Directorat e	Citizen App has yet to be developed under MORTH'S IRAD.
Number of crash locations/blackspots/junctions/ pedestrian facilities improved	Projec t	Number	201	o	o					25		25	In the Pilot Phase total 3 districts have been taken Indore, Dhar and Datia.			50	Annual	MPRRDA, Traffic Police	SCDP work has been awarded and work is in progress. 3 Urban Street work has been awarded and work is in progress. 9 Black Spots have been awarded and work is in progress. 2 black spots are treated under SCDP Dhar and 1 black spot is treated under Urban street Urban.
Number of MPRRDA's staff trained	Projec t	Number	201	0	0	110	50	125	107	40	232	15	262	10		300	Annual	MPRRDA	43 trainings on engineerin g and quality aspects of rural roads have been conducted . With 30-

	1	1		1	1				1	1		ı					1	
																		35 staffs joining in each training, target is overachiev ed.
Training on WB procurement policies, contract management and quality assurance	Projec t	Number	201 8	0	0	50	30	25	30	25	60	110			100	Annual	MPRRDA	50 staff have been trained in Q2 2023.
Staff trained on environmental and social safeguards	Projec t	Number	201 8	0	0	50	10	50	50		165				100	Annual	MPRRDA	165 Staff trained so far.
Staff in the new design unit trained on alternative design and construction technologies	Projec t	Number	201 8	0	0	10	27	15	10			37 Staff trained in Hyderaba d and more will be trained.		37 Staff trained in Hyderab ad and more will be trained.	25	Annual	MPRRDA	
Staff trained on design software	Projec t	Number	201	0	0			25							25	Annual	MPRRDA	The training has been conducted for MIDAS software for 16 candidates in 2023.
Citizen satisfaction index	Projec t	Number	201	0	0	1.5				3.5	2.33		3.5	3.69- 3.87	3.5	At mid- term and end of Project	MPRRDA through a consultant	End term satisfactio n survey index for female is 3.69. End term satisfactio n survey index for male is 3.87.
Females satisfaction index	Projec t	Number	201 8	1.5	1.5									3.69	3.5	At mid- term and end of Project	MPRRDA through a consultant	Baseline 1.54 based on coverage of 100 roads covering 39 districts. Midterm 2.62. End term satisfactio n survey index 3.69.



Males satisfaction index	Projec t	Number	201 8	1.5	1.5											3.87		3.5		At mid- term and end of Project	MPRRDA through a consultant	Baseline 2.62 based on coverage of 100 roads covering 39 districts. Midterm 3.25. End term satisfactio n survey index 3.87.
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