

## Project Implementation Monitoring Report (#2)

Reporting Period From 2023/11 To 2024/04

## India : Chennai Metro Balance Corridor 5 Project

## 1. Project Information

Project ID:	P000368	Instrument ID:	L0368A
Member:	India	Region:	Southern Asia
Sector:	Transport	Sub-sector:	Urban transport
Instrument type:	<input checked="" type="checkbox"/> Loan:438.75 US Dollar million <input type="checkbox"/> Guarantee	Lead Co-financier (s):	
ES category:	A	Borrowing Entity:	Ministry of Finance, India
Implementing Entity:	Chennai Metro Rail Limited		
Project Team Leader:	Wenyu Gu		
Responsible DG:	Rajat Misra		
Responsible Department:	INF1		
Project Team Members:	Bernardita Saez, Project Counsel; Liu Yang, Alternate Counsel; Yi Geng, OSD - Financial Management Specialist; Jurminla Jurminla, OSD - Procurement Specialist; Jyosyula Siva Rama Krishna Sastry, OSD - Environment & Social Development Specialist; Pilar Lopez Camacho, Back-up PTL; Chang Tian, Project admin		
Completed Site Visits by AIIB:	Aug, 2023 Implementation Support Mission Mar, 2024 India: Chennai Metro Rail Phase 2 Corridor 4 Project (P000301) and Balance Corridor 5 Project (P000368) Joint Implementation Support Mission (March 4, 2024 to March 7, 2024)		
Planned Site Visits by AIIB:	Nov, 2024 AIIB team plans to conduct the implementation support mission in November or December 2024.		
Current Red Flags Assigned:	0		
Current Monitoring Regime:	Regular Monitoring		
Previous Red Flags Assigned:	0		
Previous Red Flags Assigned Date:	2023/10		

## 2. Project Summary and Objectives

The project aims to increase transport capacity and improve the efficiency of northwest-south connectivity in the Chennai Metropolitan Area by expanding the Chennai metro system. The project spanning from Chennai Mofussil Bus Terminal (CMBT) to Okkiyam Thoraipakkam Metro Station, comprises the development of 24.04 kilometers with 23 elevated stations.

The project is co-financed in parallel by AIIB, ADB, and with counterpart funding by the Government of Tamil Nadu (GoTN).

The project components financed by AIIB (AIIB Supported Components) are:

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Component 1. Construction of an elevated viaduct of 12.431 km in length, between CMBT (excluded) and Ullagaram Metro Station, including special spans and construction of 12 elevated stations.

Component 2. Construction of an elevated viaduct of 11.61 km, between Ullagaram Metro Station (excluded) and Okkiyam Thoraipakkam Metro Station (excluded), including construction of 11 elevated stations.

The remaining components and their financing sources are as follows:

Component 3 by ADB. The electrical and mechanical works, traction and power supply, telecommunication.

Component 4 by GoTN. The general consultant, signaling, lift and escalators, permanent way, platform screen doors, and others including overall state tax and the cost of land acquisition.

### 3. Key Dates

Approval:	Apr. 19, 2023	Signing:	Jun. 07, 2023
Effective:	Jul. 10, 2023	Restructured (if any):	
Orig. Closing:	Dec. 31, 2026	Rev. Closing (if any):	

### 4. Disbursement Summary (USD million)

Contract Awarded:	42,911,792.00	Cancellation (if any):	0.00
Disbursed:	110.14	Latest disbursement (amount/date):	2.64/Mar. 27, 2024
Undisbursed:	328.61	Disbursement Ratio (%) <sup>1</sup> :	25.10

### 5. Project Implementation Update

The Project was approved by the Board on April 19, 2023, and the loan became effective on July 10, 2023. Overall, the project implementation progresses steadily. The civil works under Components A and B, which started at the beginning of 2022, are in full swing. As of the end of March 2024, the physical progress is 28.1% for component 1 civil work of elevated corridor viaduct 2 and 43.4% for component 2 civil work of elevated corridor viaduct 3. Although progress in 2022 experienced delay due to land acquisition, utility shifting, and traffic management issues, the physical progress has caught up with the original plan of about 33% of civil work completed. Works are progressing at full capacity. The project team judges the overall implementation progress as satisfactory. As of March 15, 2024, all government land has already been acquired. CMRL informed the project team that a new proposal for building an additional viaduct section is under internal review, to be finalized by the end of April 2024.

Components	Physical Progress	Environmental & Social Compliance	Procurement
Component 1. Construction of an elevated viaduct of 12.431 km length, between CMBT (excluded) and Ullagaram Metro	This component comprises a single civil work Package ECV-02 has been awarded to L&T construction on Nov 29, 2021 for the construction of (i)	As of the end of March 2024, 93.59% of the private land required under this section (Koyambedu Grain Market Metro Station to Ullagaram Metro Station) is acquired by CMRL. All the required government land has already been	There is a single package under this component for which the procurement process was completed at the end of 2021. The contractor is onboard, and the date of commencement

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

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<p>Station, including special spans and construction of 12 elevated stations</p>	<p>elevated metro stations, connecting Grain Market, Sai Nagar Bus Stop, Elango Nagar Bus Stop, Mugalivakkam, DLF IT SEZ, Sathya Nagar, CTC, BUTT Road, Alandur, Adambakkam, Vanuvampet and Puzhuthivakkam and (ii) Integrated highway grade separator from Mugalivakkam to MIOT Hospital, (iii) Vehicular underpass at Vanuvampet and (iv) all associated works in Corridor-5 of Chennai Metro Rail Project-Phase-2.</p> <p>As of the end of March 2024, the overall physical progress of ECV-02 is 28.1%.</p>	<p>acquired. E&amp;S institutional arrangements at CMRL, GC and Contractors are in place and functioning satisfactorily.</p>	<p>of civil works was on Nov 29, 2021 (the duration of the contract is 1095 days).</p>
<p>Component 2. Construction of an elevated viaduct of 11.61 km, between Ullagaram Metro Station (excluded) and Okkiyam Thoraipakkam Metro Station (excluded), including construction of 11 elevated stations.</p>	<p>This component comprises a single civil work Package ECV-03 has been awarded to KEC &amp; HCC consortium on Dec 10, 2021 for the construction of (i) elevated metro stations, connecting Madipakkam, Kilkattalai, Echangadu, Kovilambakkam, Vellakkal, Medavakkam Koot Road, Kamaraj Garden Street, Medavakkam Junction, Perumbakkam, Global Hospital and Elcot and (ii) all associated works in Corridor-5 of Chennai Metro Rail Project-Phase-2.</p> <p>As of the end of March 2024, the overall physical progress of ECV-03 is 43.4%, which is a significant increase since the last mission (physical progress in July 2023: 21.9%).</p>	<p>As of the end of March 2024, 90.15% of the private land required under this section (Ullagaram Viaduct to Elcot Viaduct) is acquired by CMRL. All the required government land has been already acquired. E&amp;S institutional arrangements at CMRL, GC and Contractors are in place and functioning satisfactorily.</p>	<p>There is a single package under this component for which the procurement process was completed at the end of 2021. The contractor is onboard, and the date of commencement of civil works was Dec 10, 2021 (the duration of the contract is 1095 days).</p>

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**Financial Management:**

During the last mission, the project team met CMRL representatives from the financial team to discuss and review the overall project financial management system and disbursement process. It concluded that the client's financial team is competent and qualified to maintain the project financial management system that meets the bank's requirements.

Sufficient funds from GoTN are being allocated in a timely manner to CMRL to meet its payments, which demonstrates strong support from the Government side for the project.

Total reimbursement reached USD110 million as of March 2024. According to the progress report for the period ended Mar 31, 2024, payments to both contractors are 40% of total contract amounts while physical progress is 28% (ECV-02) and 43% (ECV-03) respectively.

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**6. Status of the Grievance Redress Mechanism (GRM)**

A multi-tier Project-level Grievance Redress Mechanism (GRM) has been constituted for the overall project in line with the requirements of AIIB and ADB, building on the existing complaint mechanisms within CMRL. Communities and individuals including project contracted workers who believe that they are adversely affected by the Project are able to submit complaints to the project-level GRM for their resolution. GRM has already been established at the contractor level for worker grievances. Information of established GRM as well as Project affected Peoples Mechanism (PPM) in local understandable language will be timely disclosed in an appropriate manner.

As of Mar 31, 2024 a total of 146 grievances were received, of which 51 were accepted and 92 were rejected while 3 grievances are pending. The grievances are mainly in the areas of change in alignment, avoiding land acquisition, enhancement of compensation, and livelihoods.

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

The Quarterly Progress Report was submitted by CMRL to the Bank in April 2024, in a timely manner.

**Remarks:**

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Project Objective Indicators	Indicator level	Unit of Measure	Cumulative Target Values															Frequency	Responsibility	Comments		
			Baseline		2021		2022		2023		2024		2025		2026		End Target					
			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year				Target	Actual
Daily passengers	Project	Number	2021	0	0		N/A		N/A		N/A		N/A		661000			661000		First year of operation	CMRL	
Reduced journey time	Project	Minutes	2021	138	138		N/A		N/A		N/A		N/A		82			82		First year of operation	CMRL	

Project Intermediate Indicators	Indicator level	Unit of Measure	Cumulative Target Values															Frequency	Responsibility	Comments		
			Baseline		2021		2022		2023		2024		2025		2026		End Target					
			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year				Target	Actual
Employment during project operations stage, including depot, disaggregated by gender (30% of jobs are for women)	Project	Percentage	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		30			30		First year of operation	CMRL	
Number of project stations designated to be fully operated by women	Project	Number	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		2			2		First year of operation	CMRL	
Percentage of female passengers satisfied with station facilities and services during project operations stage	Project	Percentage	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		75			75		First year of operation	CMRL	
Number of stations that incorporate all the following gender-friendly and universal accessibility features: (i) CCTV, (ii) nappy changing facility, (iii) accessible toilet for persons with disabilities and (iv)	Project	Number	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		23			23		First year of operation	CMRL	

women's helpline number, (v) access ramps and (vi) lifts or escalator																						
Number of project staff trained on gender-sensitive transport project design and implementation	Project	Number	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		50			50		First year of operation	CMRL	
Indian Green Building Council platinum rating for elevated stations	Project	Number	2021	0	0	N/A	N/A	N/A	N/A	N/A	N/A		N/A		23			23		Annually	CMRL	
Elevated viaducts constructed	Project	KM	2021	0	0	0	7		15	4	24.04		24.04		24.04			24.04		Annually	CMRL	7.9km as of the end of Feb 2024
Elevated stations constructed	Project	Number	2021	0	0	0	0	0	23		23		23		23			23		Annually	CMRL	61.3% as of the end of Feb 2024