



Project Summary Information

Date of Document Preparation: September 23, 2021	
Project Name	Chennai Metro Rail Phase 2 - Corridor 4 Project
Document Code	PD000301-PSI-IND
Country	Republic of India
Sector/Subsector	Transport Urban Rail
Status of Financing	Approved
Project Description	<p>The Project (Corridor 4) spanning from Lighthouse (in east) to Poonamallee Bypass (in west) has a length of 26.8 km, of which 16.5 km is elevated, and 10.3 km is underground, with 18 and 12 stations, respectively. The Project will be parallelly co-financed by AIIB, ADB, and NDB.</p> <p>The Project components to be financed by AIIB under the proposed Project are:</p> <ul style="list-style-type: none"> - Component A: Construction of 16.5 km of elevated viaduct, including 18 elevated stations <p>The remaining Project components and its financing sources are as follows:</p> <ul style="list-style-type: none"> -Component B by ADB: Construction of 10.3 km underground section, including 12 stations. -Component C by NDB: E&M works, tunnel ventilation system, telecoms, AFC, platform screen doors, traction, power supply. -Component D by Government of Tamil Nadu (GoTN): General Consultant, signaling, rolling stock, depot and staff quarters, permanent way, utilities, security features. -Component E by GoTN: The consolidated Project land, R&R, and state taxes.
Objective	To provide increased capacity and efficiency of east-west connectivity by expanding the Chennai metro system.

Expected Results	(i) Daily carrying passenger capacity (unit: number) (ii) Reduced journey time (unit: minute)
Environmental and Social Category	Category A
Environmental and Social Information	<p>Environment and Social Policy and Categorization. The AIB Components of the Project have been screened and reviewed in accordance with the ESP and ESSs, and the Project has been assigned Category A. ESS 1 (Environmental and Social Assessment and Management) and ESS 2 (Involuntary Resettlement) are applicable. An Environmental Impact Assessment (EIA) accompanied with an Environmental Management Plan (EMP) and a Social Impact Assessment (SIA)/Resettlement Plan (RP) accompanied with a Resettlement Policy Framework (RPF) have been prepared by CMRL (taking into consideration all project components financed by the parallel co-financiers) and jointly reviewed by all co-financiers to comprehensively assess all components of the Project. These E&S instruments have been prepared in adherence to the E&S policies of all the co-financiers.</p> <p>Environmental and Social Aspects. The Project is expected to generate environmental and socio-economic benefits in terms of decreasing the vehicle exhaust emission from traffic congestion and serving the growing travel demand. The main residual negative impacts of Corridor 4 are construction related impacts such as fugitive and point source dust emission, surface noise and vibration from excavation and demolition which are temporary and localized. The detailed analysis of noise and vibration has been finalized and incorporated in the EIA. The EMP accompanied by a Monitoring Plan describes the mitigation measures for the identified impacts, the roles, and responsibilities for EMP implementation, and institutional arrangements for monitoring, reporting and capacity building.</p> <p>Key social risks associated with the Project are related to land acquisition and physical and/or economic displacements. A total of 429 structures will be affected out of which 85 are fully affected and 344 are partially affected structures. There are 1,031 Project Affected Families (PAFs) comprising of 4,755 Project Affected Persons (PAPs). The final figures will be updated following the completion of detailed designs which determine the actual measure of land to be affected and total number of PAFs. The SIA/RP including the RPF, and the Entitlement Matrix has been prepared.</p> <p>Stakeholder Engagement and Information disclosure. Consultations have been held during the preparation of EIA, SIA/RP and RPF. This will continue during Project implementation, in accordance with national guidelines on restrictions imposed due to the COVID-19 pandemic. The English versions of EIA, SIA/RP and RPF, and the Tamil versions of the</p>

	<p>Executive Summaries of the EIA, SIA/RP and RPF have been posted on CMRL's¹ and Bank's² websites and made available in hard copies in the Project area in October 2020.</p> <p>Project-level Grievance Redress Mechanism. A multi-tier Project-level Grievance Redress Mechanism (GRM) has been constituted for the Project in line with the requirements of the ESP. Communities and individuals who believe that they are adversely affected by the Project will be able to submit complaints to the project-level GRM for their resolution. In addition to the above GRM for addressing complaints from the local community, a GRM will be established at the contractor level for worker grievances.</p>																											
Cost and Financing Plan	<table border="1" data-bbox="504 587 1630 970"> <thead> <tr> <th colspan="6" data-bbox="504 587 1630 643">Table Indicative Project Cost and Financing Plan (USD million, rounded)</th> </tr> <tr> <th data-bbox="504 646 862 766" rowspan="2">Item</th> <th data-bbox="866 646 1012 766" rowspan="2">Cost</th> <th colspan="4" data-bbox="1016 646 1630 699">Financing</th> </tr> <tr> <th data-bbox="1016 702 1178 766">AIIB</th> <th data-bbox="1182 702 1328 766">ADB</th> <th data-bbox="1332 702 1478 766">NDB</th> <th data-bbox="1482 702 1630 766">GoTN</th> </tr> </thead> <tbody> <tr> <td data-bbox="504 769 862 970">A. Construction of 16.5 km of elevated viaduct, including 18 elevated stations with contingency³</td> <td data-bbox="866 769 1012 970">363.42</td> <td data-bbox="1016 769 1178 970">356.67</td> <td data-bbox="1182 769 1328 970">0.00</td> <td data-bbox="1332 769 1478 970">0.00</td> <td data-bbox="1482 769 1630 970">6.75</td> </tr> </tbody> </table>						Table Indicative Project Cost and Financing Plan (USD million, rounded)						Item	Cost	Financing				AIIB	ADB	NDB	GoTN	A. Construction of 16.5 km of elevated viaduct, including 18 elevated stations with contingency ³	363.42	356.67	0.00	0.00	6.75
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¹ <https://chennaietrorail.org/wp-content/uploads/2020/10/EIA-Report-CMRL-Phase-II-Corridor-4.pdf>

https://chennaietrorail.org/wp-content/uploads/2020/10/EIA_Executive_Summary_Corridor_4_Tamil.pdf

<https://chennaietrorail.org/wp-content/uploads/2018/07/Approved-Social-Impact-Assessment-Resettlement-Plan-Corridor-4.pdf>

<https://chennaietrorail.org/wp-content/uploads/2018/07/SIA-Executive-summary-tamil-version-scanned-copy.pdf>

<https://chennaietrorail.org/wp-content/uploads/2018/07/Approved-AIIB-Resettlement-Planning-Frame.pdf>

<https://chennaietrorail.org/wp-content/uploads/2018/07/Resettlement-Planning-Framework-Tamil-Version.pdf>

² <https://www.aiib.org/en/projects/details/2019/proposed/India-Chennai-Metro-Rail-Phase-2-Project-Corridor-4.html>

³ The contingency is estimated at around 6 percent of the cost, with 70 percent financed by AIIB and 30 percent by GoTN. The two elevated civil tenders under Component A are proposed to be financed 100 percent by AIIB. The cost associated with land and R&R, as mentioned above, has been calculated at the consolidated Project level.

	B. Construction of 10.3 km underground section, including 12 stations with contingency .	668.75	0.00	467.46	0.00	201.29	
	C. E&M works, tunnel ventilation system, telecoms, AFC, platform screen doors, traction, power supply etc. with contingency	346.72	0.00	0.00	346.72	0.00	
	D. General Consultant, signaling, rolling stock, depot and staff quarters, permanent way, utilities, security features, etc. with contingency	378.11	0.00	0.00	0.00	378.11	
	E. Land, R&R, State taxes	514.93	0.00	0.00	0.00	514.93	
	Total Costs	2,271.93	356.67	467.46	346.72	1,101.08	
	%		15.7	20.6	15.2	48.5	
Borrower	Republic of India						
Implementing Entity	Chennai Metro Rail Limited (CMRL)						
Estimated date of loan closing (SBF)	March 2027						
Contact Points:	AIIB	AIIB	Borrower		Implementation Organization/Sponsor		

Name	Mr. Kishlaya Misra	Mr. Wenyu Gu	Dr. Prasanna V. Salian	Mr. Pradeep Yadav
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Date of Concept Decision	December 16, 2019			
Date of Appraisal Decision	June 2021			
Date of Financing Approval	September 23, 2021			

Independent Accountability Mechanism	Bank's Project-affected People's Mechanism (PPM) will apply to the AIIB Components. It has been established by the Bank to provide an opportunity for an independent and impartial review of submissions from PAPs who believe they have been or are likely to be adversely affected by Bank's failure to implement its ESP, in situations when their concerns cannot be addressed satisfactorily through the project-level GRM or the AIIB's Management processes. Information about the PPM is available at: https://www.aiib.org/en/policies-strategies/operational-policies/policy-on-the-project-affected-mechanism.html .
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