

## Project Summary for Public Disclosure

Project Name	Mumbai Metro Rail Project
Country	The Republic of India
Sector	Urban Development
Board Approval Date	16 November 2018
Total Project Cost	USD 2,500 million
Initial Limit of NDB Financing	USD 260 million
Current Limit of NDB Financing	USD 260 million
Borrower	The Republic of India
Implementing Agency	Mumbai Metropolitan Region Development Authority (MMRDA)
Introduction	<p>In India, the strong economic growth in the past few years has led to rapid pace of urbanization, with about one third of population currently residing in urban areas. The trend of urbanization is expected to continue and the ratio of population residing in urban areas is expected to increase to 53% by 2050. Developing efficient and sustainable urban transport system is critical at the current stage, in the backdrop of the nation's strong growth momentum, yet the pace of urban transportation development has lagged. In Mumbai, one of India's largest metropolitans and also known as the financial capital of India, challenges from urbanization are evident. Today Mumbai has become the second most densely populated city in the world. Current capacity of public transportation in Mumbai is far from being sufficient to meet the city's growing demand. Geographic constraints complicates the challenge for Mumbai's current transport system, as locations of the commercial areas and residential areas are in the opposite directions in the city. Mumbai's primary mode of transport, the suburban rail system, is often the most crowded public transportation in the world with safety concerns rising from frequently stretching its maximum capacity. In this context, the Project is designed to improve urban transport infrastructure in Mumbai through financing three metro lines, to ultimately support the sustainable development of the city. The Project is in close alignment with NDB's mandate of supporting sustainable and infrastructure development.</p>
Project Description	<p>The objective of the Project is, through financing the construction of three metro lines in Mumbai with the total length aggregate about 58 km, to address the current transport challenges and to enhance the city's</p>

	<p>public transportation capacity. The Project includes construction of (i) Line 2A from Dahisar East to DN Nagar; (ii) Line 2B from DN Nagar to Mandale; (iii) Line 7 from Andheri East to Dahisar East. The Project will supplement the existing suburban railway network, which is currently operating beyond its maximum capacity. The Project will also provide rail-based mass transit facility to areas that are not currently connected by the existing transport network.</p> <p>The proposed NDB loan through the modality of Project Loan will be used by the Government of India for on-lending to Government of Maharashtra for financing the equipment and system components of the Project.</p>								
<p>Environmental and Social Aspect</p>	<p>The Project contributes to (i) reduced travel time for commuters; (ii) reduced vehicle operating costs; (iii) a positive shift in travel pattern from road to rail thereby resulting in decongestion of roads and reduction of emissions; (iv) improved transport safety; (v) enhanced comfort of travel; (vi) improved connectivity for the residences and visitors in Mumbai; (vii) sustainable development of the city through better connectivity and improved access to markets, workplaces, education, health centers and etc.</p> <p>The Project is classified as Category “A” in accordance with the NDB Environmental and Social Framework. Negative environmental and social impacts mainly pertain to land acquisition and resettlement, noise and vibration from elevated metro lines, temporary disruption of transportation during construction, dust and emissions. Mitigation measures are in place to address the negative impacts. These impacts will also be mitigated by adherence to requirements of E&amp;S country system. NDB will monitor the Project closely and engage with the Project Implementation Agency during implementation.</p>								
<p>Financing Aspect</p>	<p>The total cost of the Project is estimated to be USD 2,500 million. The NDB will finance USD 260 million, accounting for 10% of the total cost. The remaining balance will be financed by loans of USD 926 million from other banks and counterpart fund of USD 1,314 million from Mumbai Metropolitan Region Development Authority.</p> <table border="1" data-bbox="491 1809 1423 2029"> <thead> <tr> <th data-bbox="491 1809 1027 1854">Financier</th> <th data-bbox="1027 1809 1423 1854">Amount (USD million)</th> </tr> </thead> <tbody> <tr> <td data-bbox="491 1854 1027 1910">New Development Bank</td> <td data-bbox="1027 1854 1423 1910">260</td> </tr> <tr> <td data-bbox="491 1910 1027 1966">Other Banks</td> <td data-bbox="1027 1910 1423 1966">926</td> </tr> <tr> <td data-bbox="491 1966 1027 2029">MMRDA</td> <td data-bbox="1027 1966 1423 2029">1,314</td> </tr> </tbody> </table>	Financier	Amount (USD million)	New Development Bank	260	Other Banks	926	MMRDA	1,314
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Implementation	The Project is estimated to be completed by December 2022. Mumbai Metropolitan Region Development Authority will be the Project Implementation Agency. Contractors for the Project will be selected through a competitive and transparent bidding process.
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