NS-167 - Ethiopia Railway's Addis Ababa Light Rail Transit (LRT) Transit Oriented Development (TOD) NAMA

Ethiopia

NAMA Seeking Support for Preparation

A.1 Party

A.2 Title of Mitigation Action

A.3 Description of mitigation action

A Overview

Ethiopia

Ethiopia Railway's Addis Ababa Light Rail Transit (LRT) Transit Oriented Development (TOD) NAMA

A main pillar of Ethiopia's Climate Resilient Green Growth (CRGE) strategy is to avoid emissions in transport sector through a shift of passenger transport from road rail. to Railways Corporation (ERC) 2007 with the mandate to construct railway infrastructure and provide passenger freight rail transport services in Ethiopia. The envisaged infrastructure consists of two railway project components: the Addis Ababa Light Transit (LRT) and the National Railway Network (NRN).

ERC intends to implement measures ridership and revenue for its LRT. collaboration In with the City of Addis Ababa ERC plans Oriented Development (TOD). TOD urban development concept, which promotes mixedresidential -use public, and commercial areas, non--motorized modes favouring of transport. High---density urban development along the will increase revenues through ticketing (enhanced land/leases. and increase the value which will contribute to the sustainable operation the LRT. Simultaneously TOD will directly (through avoidance of transport need as commercial grouped social activities are within TOD) indirectly (increased **LRT** ridership TOD residents will use LRT when transport is required) reduce GHG emissions in Addis Ababa.

TOD will increase transport safety, reduce pollution, lower costs of transport and provide easy access to work and business. ERC has identified 10 stations along the LRT lines which are suitable for

Knowledge, access finance and gaps the to in regulatory framework are the typical barriers to low carbon economic development in developing countries. the important These are also most barriers for TOD in Addis the implementation of Ababa.

Knowledge barrier: this will be the first TOD in Ethiopia. The project proponents are the aware of lack advantages of TOD, but practical knowledge and experience. This includes technical design issues in addition to issues related to organisation, finance and coordination. The NAMA will address amongst others the design of the pilots through the preparation of a bankable feasibility study, the regulatory frameworks and an operational cooperation structure.

finance Barrier due to and access finance: to investment in TOD requires investments by private governmental actors and investments by **Public** sector investors. sector investments include roads and other public infrastructure. Any these of from public budget, which must come the limited. social housing estates Investments in and commercial development for **SMEs** will be property incentivised under the pilot TOD. The NAMA assists in the preparation of a structured debt fund take away the risk for private sector to housing investment for social and **SMEs** particular and will prepare the conditions for public--private partnerships.

Structured funds are loan funds that pool money different investors varying expectations with of risk and return for a dedicated purpose. The funds organised into capital pooled are a stack with layers that represent different levels of risk and return expectations. Grants and low return contributions from the Government of Ethiopia will positioned higher layers the in of the fund while commercial banks will take the risk lower positions in the fund. This will protect the banks' investment and allows the fund to offer loans at interest rates and high loan--to--value ratios compared to comparable commercial finance.

The Development Bank of collaboration Ethiopia in of with the Ministry Finance and Economic Development will take the lead in establishing the structured debt fund.

Regulatory barrier: Establishing the TOD may also take place through public--private partnership (PPP). Such co--development structures are without precedent in Ethiopia. The NAMA addresses this barrier by preparing the needed regulatory frameworks.

The implementation of the NAMA aims to take away these barriers, by increasing capacity, preparing a regulatory framework, developing knowledge and by lowering hurdles to private investment. International support is solicited to expedite this process, which will be implemented through the following activities:

A: Institutional framework established and operational for TOD implementation

- A.1 Stakeholder consultation process to concretize roles, responsibilities and mandates of implementing partners.
- A.2 Formulation and execution of Memoranda of Understanding between TOD implementing partners.
- A.3 Capacity building for TOD implementation.
 (TOD, MRV, structured fund related)
 A.4 Establishment of a Project Implementation Unit
- B: TOD regulatory framework established
- B.1 Consultations with implementing partners
- B.2 Assessment of existing policies and gap analysis.
- B.3 Incorporation of TOD in National Transport Policy, AA Urban Transport Policy and AA Urban Master Plan
- B.4 Formulation and update of TOD related policies and regulations, including land and tax regulations,
- B.5 Development of TOD zoning
- B.6 Formulation of legal framework for Public Private Partnerships
- C: Detailed TOD implementation plan for 10 station of the Addis Ababa Light Rail Transit in line with the ERC bankable feasibility study ToR attached.
- C.1: Preparation of urban design plan
- C.2: Preparation of technical design studies
- C.3: Preparation of detailed market studies and development prospectus
- C.4: Preparation of Environmental Impact Assessment studies
- D: Structured debt fund is designed
- D.1 Preparing detailed concept of structured fund

		E: MRV system developed	d	
		• E.1Surveys and baseline		
		• E.2 Preparation of MRV	system	
A.4 Sector		Energy supply	X Transport and its	
		X Residential and Commercial	Infrastructure	
		buildings Agriculture	Industry	
A.5 Technology		Waste management	Forestry	
		Other		
		Bioenergy	Cleaner fuels	
		Energy Efficiency	Geothermal Energy	
		Hydropower	Solar Energy	
		Wind Energy	Ocean Energy	
		Carbon Capture and Storage	Low till / No till	
		Land fill gas collection X Other Rail way / Pedestrian f	nid	
A.6 Type of action				
		National/ Sectoral goal	Project: Investment in machinery	
		Strategy	X Project: Investment in	
		National/Sectoral policy or	infrastructure	
		program	Project : other	
		Other		
A.7 Gree	enhouse gases covered by the action	XCO2	CH4	
		N2O	HFCs	
		PFCs	□SF6	
		Other		
B National Implementing Entity				
B.1.0	Name	Ethiopian Railway Corpora	ation (ERC)	
B.1.1	Contact Person 1	Mr. Shewangizaw Kifle		
B.1.2	Address	P.O.Box 27558/1000 Addis Ababa, Ethiopia		
B.1.3	Phone	00251 911 226 816 or 00251 114 70-21-90		
B.1.4 B.1.5	Email Contact Person 2	kidusshk@gmail.com		
B.1.5 B.1.6	Address			
B.1.0	Phone			
B.1.7	Email			
B.1.9	Contact Person 3			
B.1.10	Address			
B.1.11	Phone			
B.1.12	Email			
B.1.13	Comments	-		

C Expected timefran	me for the preparation of the mitigation action			
C.1 Nun	Number of months for completion 18			
D Currency				
D.1 Used Currency	AED			
	Conversion to USD: 1			
	E Cost			
E.1.1 Estimated full cost of preparation 89	900000			
E.1.2 Comments on full cost of preparation	t is expected that the activities C1 – C3 will cost ~ USD 5,000,000. This is based on initial quotes being provided to ERC by shortlisted consultants.			
The other activities requested to be supported are expected to cost USD 3,900,000, based on expected professional fees.				
F Support required to prepare the mitigation action				
F.1.1 Amount of Financial support 7700000				
F.1.2 Type of required Financial support	X Grant Loan (sovereign) Loan (Private) Concessional loan Other Guarantee Equity Carbon finance			
F.1.3 Comments on Financial support	The Government of Ethiopia through ERC will provide cofunding of USD 1,200,000 for the purpose of the preparation of the bankable feasibility study.			
F.2.1 Amount of Technical support F.2.2 Comments on Technical support F.3.1 Amount of capacity building support	Included in financial support requested.			
F.3.2 Type of required capacity building support	Individual level Institutional level Systemic level Other			
 F.3.3 Comments on Capacity Building suppor F.4 Financial support required F.5 Technological support required F.6 Capacity support required 	Included in financial support requested.			
G Relevant National Policies strategies, plans and programmes and/or other mitigation action				
Policies economic growth the impacts o The Governmen Transformation reach middlein Government has strategy in 20	by investing in an economy that is more resilient to f climate change and pursue low carbon development. Into of Ethiopia has adopted the Growth and Plan (GTP), which outlines the country's strategy to income status before 2025. At the same time, the is issued the ClimateResilient Green Economy (CRGE) 11, which lays down the country's plan to develop a green economy by 2025. Provision of an affordable			

and efficient transport system will make a crucial contribution to economic growth, employment creation, social welfare and the expansion of the industrial sector. Estimated GDP growth of 8.5% in 2012 made Ethiopia one of Africa's best performing economies and the country is expected to continue to represent one of the world's fastest growing economies in the years to come. TOD provisions are furthermore being incorporated in the Addis Ababa City Master Plan. G.2 Link to other Ethiopia's National Railway Network and Addis Ababa Light Rail Transit (LRT) NAMA **NAMAs** H Attachments Н Attachments Title Description H.1 Attachment description H.2 File Browse... I Support received I.1 Outside the Registry

Support provided SupportType Amount Comment Date

I.2 Within the Registry