## GMS Regional Investment Framework (RIF) 2022 Second Progress Report and Update

Transport Sector
MYANMAR
June 2019

Reported at the 23<sup>rd</sup> Meeting of the GMS Subregional Transport Forum (STF-23) 14-15 August 2019, Bangkok, Thailand



## TABLE A- I. INVESTMENT PROJECTS PROJECTS LISTED IN RIF 2022 FIRST PROGRESS REPORT AND UPDATE

No.	Project Title	Description	Year of Approval	Latest Cost Estimate (\$ million)	Latest Potential Funding Source and Amount (\$ million)	Status Updates	Key locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs
1	East – West	The project will improve	2016	121.8	ADB—100.0	the length of road from	Kayin State,	66.4 km of
	Economic	66.4km of road between		million	ASEAN	0+000 km to 40+440 km,	Myanmar	upgraded road
	Corridor Eindu-	Eindu and Kawkareik. It is			Infrastructure	the bridges and culvert on	EWEC	
	Kawkareik Road	in Myanmar's Kayin State,			Fund—20.0	that road are being		
	Improvement	which borders on			Government	implemented and the		
	Project	Thailand			of Myanmar -	completion of the whole		
					1.8 (First	project is 41.11% resulted		
					Progress	from the end of May 2019.		
					Report 2018)	As ICB-2 the length of road		
						from 42+160 km to 66+455		
						km, the bridges and culvert		
						on that road are being		
						implemented and the		
						completion of the whole		
						project is 21.93% resulted		
						from end of May 2019.		



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2	Mae Sot- Myawady Border Crossing Project and Infrastructure Improvements (with Thailand)	The project involves a new by pass road and bridge to the north of the existing border crossing at Mae Sot (Thailand)—Myawady (Myanmar), which is in the congested area between the two cities. This new crossing will be dedicated to crossborder freight traffic. The bypass will link up with a newly envisioned special trade zone in Myanmar. The overall project will include about 16.9 km of a new four-lane divided highway (13.3 km in Thailand; 3.6 km in Myanmar), a 100-meterlong bridge across the Moei River at the border, and associated border-crossing facilities.	2015	Project and Cost estimate listed under Thailand to avoid double counting	Thailand (First Progress Report 2018)	Overall Completed	Kayin State, Myanmar, EWEC	New 4 lanes on border line



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3	Improvement of	The project includes the	2018	Updated	JICA, Private	For Mandalay Port,	• NSEC	Inland port
	Six Inland Ports	establishment of six		cost	Sector, KOICA,	Exchange Notes was		facilities will
		inland ports along the		estimate	PPP	signed with JICA.		be upgraded
		Ayeyarwaddy and		breakdown		Belgium fund was		and water
		Chindwin rivers. F/S for		Mandalay		cancelled. DWIR		way
		Mandalay Port was		Port:		communicated with		transportati
		completed in February		53.644,		KOICA for Monywa and		on mode will
		2014, and received the		Monywa		Pakkoku port. DWIR		be improved
		JICA Grant Aid for		Port:		submitted the project		
		construction and the		79.994,		proposal for the		
		total implementation		Magway		construction of Bamaw,		
		cost is 53.644 million USD. Pakokku Port and		Port, Kalewa		Pakokku, and Monywa		
		Monywa Port and		Port and		to the government for approval and will		
		requested to KOICA for		Bhamo		proceed to invite the		
		FS and Grant Aid to		Port: 21x3=		private investors. Other		
		implement. Two other		63.0 ,		2 ports Magwe and		
		inland ports (Magway		Pakkoku		Kalawa are second		
		Port and Kalewa Port) are		Port: 40.0		priority and expected to		
		planned to be built with		m Total		construct in 2020 with		
		the support of private		236.638		private investment.		
		investors.		million				
				USD.				



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4	Loilem – Kyaington Road Section (356km) (GMS Road Section of R7 and Secondary Road of Corridor)	This is the road section of GMS route R7 and of the Asian and ASEAN highways. It will link with the NSEC and the Northern Economic Corridor as a secondary road. It must be upgraded to ASEAN Class III standards.	2018	359.0	TBD	Proposed	Eastern and Southern Shan State, Myanmar, NSEC	359 km of upgraded road
5	Thaton – Payagyi Road Improvement Project	The expected components of this 151 km, two-lane road improvement project will primarily consist of road repairs and upgrading along most of the road's length, with major reconstruction and widening of the road sections running through the towns of Bilin, Kyaikto, and Payagyi, including a possible gradeseparated interchange with NR1 at Payagyi	2018	128.0	Private Sector, (BOT System ) - 128.0	Ongoing, Local BOT company is undergoing that road section to be 10.97- 14.63m width according to the existing road alignment. It needs to implement by pass roads such as Thaton, Kyaikto, Kyaikkaw, Theinsait and repair geometric design in some segment for transport facilitation.	Mon State & Bago Region Myanmar. EWEC	151 km of upgraded road

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6	Ruili (PRC)– Kyaukpyu (Myanmar) Highway	The road will promote connectivity between the PRC and Myanmar, and will improve the region's road network overall. The PRC and Myanmar have already had some technical discussions concerning the project.	2018	1,000.0	Private Sector (China Hobour Engineering Co.Ltd [CHEC])	Proposed. It has already signed MoU with CHEC which was recommended by China Embassy and MOFA. It is implementing Feasibility Study.	Northern Shan State, Mandalay Region, Nay Pyi Taw, Magway Region & Rakhine State. NSEC	New Expressway
7	Daluo (PRC) - Tachilek (Myanmar) Highway	This project involves the improvement of an existing highway that is a part of the GMS NSEC (and of the Asian and ASEAN highways) in Myanmar, linking with the PRC to the north and Thailand to the south. This highway is also one of the major border trade routes between Myanmar and Thailand via Tachileik. The improvement will consist of upgrading the Kyaington–Mongla section (93 km) of this highway to ASEAN Class II standards.	2018	93.0	Public Private Partnership (BOT)	Ongoing, Ministry of Construction is undergoing Minelar- Kengtung road section (3.66 - 6.7 m) and local BOT company is undertaking Kengtung - Tachileik road section (9.14 m). It needs to repair geometric design in some segment for transport facilitation	Eastern Shan State. NSEC	87.51 km of upgraded Mongla – Kyaington road, 156.8 km of upgraded Kyaington- Tachileik road

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8	Bridge on the Kyaington– Lyainglin– Taunggyi Road (AH2)	The service life of the Tarkaw (Thanlwin) Bridge (bank- to-bank 900 feet) is about 40 years, and its load capacity is only HS-20. A new bridge of four lanes with an HS-25 load capacity has been proposed. The type of bridge will be specified after the feasibility study.	2018	15.8	Government of Myanmar- 15.8	Ongoing, F.S completed in March 2018. Bridge is under construction using FY 2018–2019 Myanmar Government budget.	Shan State,	A new bridge with capacity of HS-25.
9	GMS EWEC Corridor Improvement I and II	The bridges and expenditure amounts involved in this project are: Attran Bridge (\$68.25 million), Gyaing (Kawkareik) Bridge (\$122.86 million), Gyaing (Zathapyin) Bridge (\$129.11 million), and Sittaung (Kyaikhto) Bridge (\$180.7 million, proposed for approval in 2020).	2017	550.22	JICA-550.2	Ongoing, Gyaing (Kawkareik) Bridge Contract Agreement completed and Starting the Project. Gyaing (Zathapyin) Bridge and Attran Bridge are under process of selection of contractor Conducting Feasibility Study for Sittaung (Kyaikhto) Bridge	Mon State, Kayin State, EWEC	Four new 4-lane Bridges

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11	Bago–Kyaikto Road	The project entails a new highway alignment on an extension of the EWEC, between Bago and Kyaikto, in order to provide easier access to Thilawa SEZ. This road is expected to be reconstructed as an asphalt-concrete, two-lane road of 7-meter in width, with 1.5-meter paved shoulders. The goal is to achieve a safer and more efficient movement of goods and people along the GMS EWEC and NSEC in Myanmar.	2020	164.3	ADB-164.3	be processing up to the FS	Bago Region and Kayin State EWEC	



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12	Upgrading of Wan Pong Port with 500-ton container- handling facilities	The project will modernize the facilities at Wan Pong Port for handling shipping containers. It will thus help increase the trade in cargo between Myanmar and other GMS countries. Myanmar will be extensively involved in GMS trade, and will effectively use the Mekong River transport route to boost the country's economic development.	2018	50.0	Joint Committee on Coordination of Commercial Navigation Lancang— Mekong Cooperation Special Fund	Proposed, USD 500,500 was approved by JCCCN for feasibility study (F/S) of Wan-Pong port. F/S started in October 2018 and port construction is expected in 2021-2022 fiscal year.	Eastern Shan State, NSEC	Wan Pong port will be improved and port handling capacity will be increased.



Mawlamyine – railway section (310.58 km) was constructed during 1994–1998. It is one of the most important branch lines of Myanmar Railways, not only for local railway transport but also for its link to Thailand and the ASEAN railway network. This project will improve railway transport for passengers and freight. This railway line is a part of the Trans-Asian Railway (TAR) southern corridor in Myanmar. It will be linked with the new Dawei— Hteekhee line as a proposed spur line of the Singapore—	No.	Project Title	Description	Year of Approval	Latest Cost Estimate (\$ million)	Latest Potential Funding Source and Amount (\$ million)	Status Updates	Key locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs
to Thailand.	13	Mawlamyine – Dawei – Hteekhee Rail	railway section (310.58 km) was constructed during 1994–1998. It is one of the most important branch lines of Myanmar Railways, not only for local railway transport but also for its link to Thailand and the ASEAN railway network. This project will improve railway transport for passengers and freight. This railway line is a part of the Trans-Asian Railway (TAR) southern corridor in Myanmar. It will be linked with the new Dawei— Hteekhee line as a proposed spur line of the Singapore—Kunming Rail Link (SKRL)	2020	TBD	•	Proposed	Tanintharyi	and New



#### PROJECTS LISTED IN RIF 2022 FIRST PROGRESS REPORT AND UPDATE

(continued)

				COLL				
No.	Project Title	Description	Year of Approval	Latest Cost Estimate (\$ million)	Latest Potential Funding Source and Amount (\$ million)	Status Updates	Key locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs
14	Border Control Facilities at Border Crossing Points: Tachilek and Muse	These border control facilities are needed to facilitate cross-border transport with neighboring GMS member countries under the full GMS CBTA	2018	TBD	ADB, PRC, NEDA & Thailand	Proposed. It needs to construct BCF at Tachilek and Muse BCPs. Lao- Myanmar Friendship Bridge and BCF completed in May 2015.with Government of Myanmar funding of MMK 2,604.0 million	Eastern and Northern Shan State, NSEC	Border Crossing Facilities constructed at Tachilek and Muse border crossing points.
15	GMS Highway Modernization Project	The project will improve transport conditions along Myanmar's East-West Economic Corridor (EWEC) and North-South Economic Corridor (NSEC) by (i) improving about 99 km of GMS highways, (ii) improving the safety of the Yangon– Mandalay Expressway, and (ii) preparing detailed designs for other highway projects, also along GMS corridors.		202.1	ADB-200.0 Government of Myanmar-2.1	Ongoing. Highway Modernization Project was approved Hluttaw on 26.3.2018. ADB and MOPF are negotiating the loan on 3 Oct 2018. Loan signing date was on 28 Dec 2018. Loan effective date was on 25 Feb 2019. CSRN stage is submission (2) on 12-June 2019.	Yangon Region, Mandalay Region Bago Region & Ayeyawaddy Region, Myanmar, EWEC & NSEC	64 km of Yangon-Mandalay Expressway improved 99 km of Bago-Thanlyin road upgraded. Detailed engineering designs prepared for the improvement of Yangon-Pathein Highway (165 km) and new highway alignment between Bago and Kyaikto (70km).

ADB

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1	GMS Road Corridors Maintenance	The TA will provide institutional and operational strengthening of GMS road maintenance and road asset maintenance	TBD	TBD	Seeking financing	Proposed. Proposed by MOT of Viet Nam to ADB to undertake a survey on the need for road maintenance and road asset management on GMS corridors.		
2	the Development and Management	The improvement and expansion of the existing motorway network system, raising it to an advanced standard with fully controlled access, is a key part of the strategic plan for the development of GMS highways to promote cross-border transport, including transit traffic. The GMS motorway network system will be the main point of road connectivity to other modes of transport, border areas, special economic zones (SEZs), and other high-potential development areas in the GMS countries. It will efficiently reduce travel time, improve road safety, and lower transport logistics costs. The strategic study will look at all the GMS corridors, and consider how they mesh with the GMS motorway network system.	TBD	TBD	Seeking financing	Proposed		

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3	Knowledge Transfer	The objective of this TA is	TBD	0.4	Seeking financing	Proposed		
	between Thailand and	to enhance knowledge and						
	the Other GMS Member	experience sharing in the						
	Countries on Highway	field of road engineering,						
	and Bridge Standards	and to brainstorm better						
	and Specifications,	engineering ideas for						
	including Transport	sustainable road						
	Facilitation Facilities	development in the GMS.						
		Thailand's Department of						
		Highways will fulfill its role						
		of providing technical						
		experts and training-						
		center facilities, and of						
		organizing the staff for						
		various training courses in						
		road and bridge						
		engineering						



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[ ]	Development Plan along International Railway Lines Connecting Thailand with Cambodia, the Lao PDR, and Myanmar	Thailand aims to develop Laem Chabang Port as a gateway to neighboring countries in the GMS, and to promote a modal shift from road to rail transport. Among the cross-border railway projects that are being emphasized by the GMS countries governments are: the NongKhai—Thanaleng—Vientiane line, to connect with the Lao PDR; the Aranyaprathet—KlongLuk—Poipet line, to connect with Cambodia; and the Kanchanaburi— Dawei line, to connect with Myanmar. Thailand seeks to formulate a clear development plan for dry ports, which function as cross-border facilities or inland container terminals and are connected via GMS economic corridors. The dry ports should also be maximized by considering connections with other important ports in the GMS, such as Dawei, Myanmar; Sihanoukville, Cambodia; and HCMC, Viet Nam. The TA study will determine the need for dry ports at strategic rail locations on international borders.	2018	0.5	Government of Thailand—0.5	Ongoing. Thailand already hired the consultant to study the project. The study will complete at the end of year 2018.	NSEC, EWEC , SEC	

ADB

No. Project Title  Description  This is a project proposed by a transport and logistics assessment study conducted under the process for preparing the GMS Regional investment Framework2022. The project is intended to set up a systematic and coordinated approach to gathering (i) existing cross-border traffic and commodity data; and (ii) existing cross-border traffic surveys. The TA project may be implemented in two steps:(i) small-scale assistance in scoping out the required database (including individual country database activities), and a GMS secretariat and coordination function for a concept paper for large-scale expactly building assistance tangeted at Cambodia, the Lao PDR, and Myanmar, but incorporating data from the PRC,Thailand, and Viet Nam.								<u> </u>	
Database transport and logistics capacity assessment study conducted Development under the process for preparing the GMS Regional Investment Framework2022. The project is intended to set up a systematic and coordinated approach to gathering (i) existing cross-border traffic and commodity data; and (ii) existing traffic data for major road corridors, including periodic traffic surveys.  The TA project may be implemented in two steps:(i) small-scale assistance in scoping out the required database (including individual country database activities), and a GMS secretariat and coordination function for a concept paper for large-scale capacity development; and (ii) a large-scale standardized and integrated database capacity-building assistance targeted at Cambodia, the Lao PDR, and Myanmar, but incorporating data from the PRC,Thailand, and Viet	No.	Project Title	Description	of	Cost Estimate	Potential Funding Source and Amount	Status Updates	locations and GMS Economic Corridor	Planned Measurable
	5	Database Capacity	transport and logistics assessment study conducted under the process for preparing the GMS Regional Investment Framework2022. The project is intended to set up a systematic and coordinated approach to gathering (i) existing crossborder traffic and commodity data; and (ii) existing traffic data for major road corridors, including periodic traffic surveys. The TA project may be implemented in two steps:(i) small-scale assistance in scoping out the required database (including individual country database activities), and a GMS secretariat and coordination function for a concept paper for large-scale capacity development; and (ii) a large-scale standardized and integrated database capacity-building assistance targeted at Cambodia, the Lao PDR, and Myanmar, but incorporating data from the PRC,Thailand, and Viet	TBD	TBD	_	Proposed		

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6	Feasibility Study on Upgrading of Mawlamyine-Dawei – Htikee Rail Link (452.58 km)	The railway section that is the focus of this feasibility study is one of the most important branch lines of Myanmar Railways, not only for local transport, but also for its links to Thailand and the railway network of the Association of Southeast Asian Nations (ASEAN). However, the railway line is in poor condition. The project will contribute to the improvement of passenger, freight, and logistics transport on this line. Given that the line is part of the SKRL and Trans-Asian Railway (TAR) networks, Thailand has already conducted a full feasibility study on the Laem Chabang–Bangkok– Kanchanaburi–Ban Phu Nam Ron (border crossing) section. A feasibility study for Myanmar's Htikhee–Dawei missing link has not yet been done, however.The feasibility study for an extension of the Dawei–Mawlamyine section is expected to be conducted as soon as possible, to promote the continuity of the TAR corridor	2018	TBD	TBD	Proposed	Mon State Tanintharyi Region, SEC	Upgraded Rail Link and New spur line
7	Transport Sector Reform and Modernization (additional financing)	This TA project will support the next phase of ADB's participation in the development of Myanmar's road transport sector	2017	2.0	ADB-2.0	Ongoing. This TA was being implemented Pre-Feasibility Study (F.S) before HMP Project. Feasibility Study (F.S) was completed in Nov: 2017.		

						<u></u>		
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8		The TA projects are as follows: (i) regulatory	2018	TBD	PRC, Republic of			
		TA to standardize the vessel and waterway classifications, set up a vessel inspection			Korea			
	•	system, develop a short- and long- term fleet						
	-	policy, and build a search-and-rescue center						
	•	(timeline: 2020–2030, no cost estimate yet);						
	Works and	(ii) feasibility studies for a multimodal						
	Transport	transportation system and for an import-and-						
		export logistics information system (timeline:						
		2018–2020, no cost estimate, Republic of Korea as source of funding); (iii) the						
		formulation of a regional plan for developing						
		inland waterway transport in the ASEAN						
		countries (timeline: 2016–2018, \$100,000, to						
		be carried out by the Korean Maritime						
		Institute); (iv) a development plan for						
		international navigation on the Lancang/Mekong River, 2015–2025 (timeline						
		for the planning: 2015–2018, no cost						
		estimate, to be carried out by the Joint						
		Committee on Coordination of Commercial						
		Navigation expert group);(v) the						
		implementation of the Mekong River						
		Commission Waterborne Transport Master						
		Plan (timeline: 2016–2040, no cost estimate); and (vi) the implementation of the Sustainable						
		Management of Dangerous Goods on						
		Waterway Transport Plan (12 documents have						
		been completed, but funding is needed for						
		implementation, no cost estimate).						

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9	Subregion East—West Economic Corridor Highway Development Project (formerly GMS EWEC Road Corridor Improvement II)	The project will develop a direct highway link between Bago and Kyaikto, along the Greater Mekong Subregion (GMS) East—West Economic Corridor (EWEC). The project will (i) improve connectivity between Myanmar and Thailand; compounding with ongoing ADB transport infrastructure and cross-border transport facilitation activities to enable more intense trade between Myanmar and Southeast Asia, (ii) enhance road access to Mon and Kayin state, demonstrating the government's commitment to improving the well-being of people in areas that have long been affected by conflict, (iii) provide a new high-class road access to Kyaikto, a major tourism and pilgrimage site, and (iv) build governments capacity to develop and manage high- class highways meeting international standards.	2017	2.0	ADB—2.0	Ongoing. It is planning to perform traffic survey, topography survey, geotechnical investigation, environmental testing, inventory of loss & socioeconomic survey, poverty & social assessment data collection survey, biodiversity survey and give awareness to the people with local authorities on the new alignment.		

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10	GMS Regional Transport Corridor	The technical assistance project will prepare a project to upgrade sections of	2019	1.5	ADB-1.5	Proposed		
	Improvement	Myanmar's GMS North-South and East-West transport corridors.						
11	Agreement for Cross-Border Railway Transport	draft the Main Text, which has many references to the Protocols, the Annexes (from Article 6 to Article 30).	2020	TBD	TBD	Proposed by MOT of Viet Nam		



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12	Highway Development in the Greater	project with expected outcome of a more efficient and safer movement of goods and people between Bago and Kyaikto along the GMS		1.1	ADB (Trust Fund for Road Safety for Highway Development in GMS EWEC)—1.0, Government of Myanmar—0.06 (non-cash)		Bago- Kyaikto section of EWEC	1.Road safety approach for existing Bago-Kyaikto road section established; 2.Governmen t's capacity to collect and analyze road safety data improved; 3.Police capacity



## TABLE B. PROPOSED NEW PROJECTS FOR INCLUSION IN RIF 2022 SECOND PROGRESS REPORT AND UPDATE

				Cont	Potential	Justifications		Key locations	Expected/
No.	Project Title	Description	Year of Approval	Cost Estimate (\$ million)	Funding Source and Amount (\$ million)	(a) Strategic thrust/ operational priority in HAP and or TrSS supported (Refer to Annex I)	(b) Other Justifications	and GMS Economic Corridor Alignment	Planned Measurable Outputs
1	Feasibility Study	The proposed		TBD	TBD	Which is a spur line of		Kayin and	To support a
	for Mae Sot -	Technical Assistance				Singapore-Kunming Rail Link		Mon States of	spur line of
	Myawaddy - Hpa-	project is to connect				(SKRL) with the Technical		Myanmar.	SKRL and
	an - Thaton New	with Thailand. It is				Assistance by development		EWEC	estimate
	Railway line.	situated in Kayin and				partner instead of Dawei-			the cost of
		Mon State, Myanmar.				Htiki-Ban Phunam Ran(Thai)			the project
						was proposed to input			implementa
						ACMECS Master Plan in			tion
						2019.			
						Besides, which was			
						proposed to input NEDA			
						2019-2022. Although there			
						is no response to Myanmar.			
						Therefore, we would like to			
						propose to conduct the			
						feasibility study for Mae Sot			
						–Myawaddy- Hpa-an-			
						Thaton Rail line project to			
						innut the RIF-2022		I	



# New/Expanded Configuration of GMS Economic Corridors

(For use only as possible reference in indicating location of of projects.)





### Thank You

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