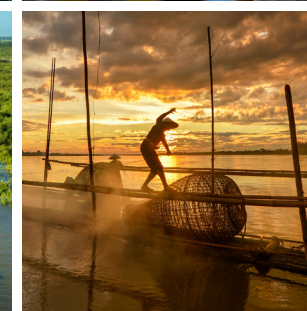
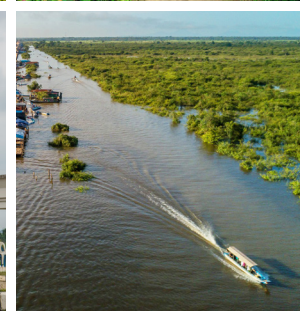
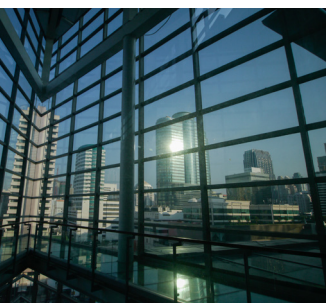
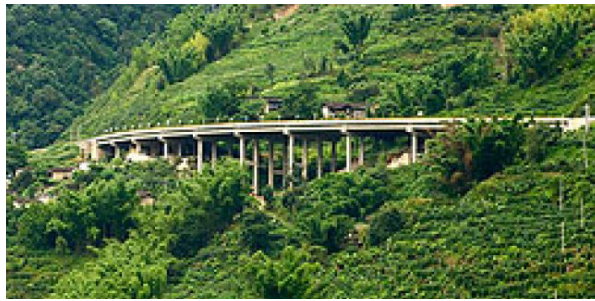


23RD GMS MINISTERIAL CONFERENCE, PHNOM PENH 2019





Greater Mekong Subregion
Economic Cooperation Program

Annex to the Regional Investment Framework 2022:

Second Progress Report and Update

November 2019

GMS SECRETARIAT

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Transport

Cambodia

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Sihanoukville Port Access Road Improvements	Roads and bridges	Originally, the project will improve the final 9.5 kilometers (km) of National Road (NR) 4 leading to Sihanoukville port. Due to the shortage of the budget, the proposed alignment has been changed and the distance is shortened from 9.5 km to 5 km	2017	5.0	5.0	Government of Cambodia (National Budget)—5.0	Government of Cambodia (National Budget)—5.0	Completed. (the shortened alignment of 5.0 km) (The original alignment is still considered for long term plan)	Sihanoukville SEC	5 km of NR4 leading to Sihanoukville port improved	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
2	Establishment of Bus/Truck Driving Test Center	Transport	The project involves the acquisition of equipment and/or construction of facilities. It may consist of a combination of a technical assistance project and an investment project, with the latter involving the actual setting up of the center. The reasons for this project are (i) the lack of testing facilities and equipment for bus and truck drivers; (ii) lack of professional drivers of heavy vehicles, especially cross-border vehicles; and (iii) need to reduce the frequency of road accidents.	2017	5.0	5.0	Private Sector (SCG Thailand)/ Government of Cambodia—5.0	Private Sector (SCG Thailand)/ Government of Cambodia—5.0	Completed. (acquisition of buildings and testing field) Need Improvement. Ministry of Public Works and Transport (MPWT) has already secured buildings and testing field for the center. SCG Thailand supports Training of Trainers. The Center was launched for initial stage in July 2018. MPWT seeks Technical Assistance to strengthen the capacity of the center and provide necessary facilities and equipment.	SEC	Bus/Truck Driving Test Center established	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com

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Investment projects in RIF 2022 continued—Cambodia

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	Cambodia: Poipet–Border Bridge/ Aran-yapraphet (6.5 km)	Rail	This project will rehabilitate part of the GMS Rail Link1: Kunming–Ha Noi–Ho Chi Minh City (HCMC) to Phnom Penh–Bangkok (Singapore–Kunming Rail Link [SKRL] mainline)	2017	6.5	6.5	Government of Cambodia—6.5	Government of Cambodia—6.5	Completed in April 2018.	SKRL main line NSEC	6.5 railway rehabilitated	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
4	Phnom Penh–Sihanouville Expressway Project (formerly Phnom Penh–Sihanouville Highway Corridor Improvements)	Roads and bridges	This is an approximately 190.01 km expressway project to be built on a new alignment. A build–operate–transfer (BOT) model with a 50-years concession period was approved. The expressway will provide a high-capacity road link between Phnom Penh and the port city of Sihanouville, and to the Greater Mekong Subregion (GMS) Southern Coastal Corridor.	2016	1,900.0	2,000.0	People's Republic of China (PRC) Private sector—1,900.00	People's Republic of China (PRC) Private sector—2,000.00	Ongoing. Ground Breaking Ceremony Presided Over by Samdech PM was held on 22 March 2019. Expected to be completed in 2022.	Link between Capital City of Phnom Penh to Deep sea port of Sihanouville. It is also a part of the Southern Central Corridor.	190.01 km 4 lanes expressway to be built on new alignment	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
5	Road Network Improvement Project (formerly GMS: Deepening Connectivity of Southern Economic Corridor Project)	Roads and bridges	The originally proposed project name was GMS: Deepening Connectivity of Southern Economic Corridor, later on, it was changed to Second Road Asset Management Project (Second RAMP) and finally, the project title now is Road Network Improvement Project under ADB Loan 3576-CAM (COL).The project will improve about 147 km of flood-prone and unsafe national roads through provision of periodic maintenance and rehabilitation on NR6 (50 km) and NR1 (97 km), respectively, with asphalt-concrete pavement (under a performance-based contract), which are high-priority roads connecting Cambodia with Thailand and Viet Nam.	2017	76.9	76.9	ADB—70.00 Government of Cambodia—6.94	ADB—70.00 Government of Cambodia—6.94	Ongoing. The Supervision Consultant and the civil work contractors mobilized and commenced their works since January 2019.	Prey Veng, Siem Reap and Svay Rieng Provinces SEC	1. 147 kms of National Roads rehabilitated, with safer and climate resilient national roads delivered 2. Axle load control enhanced 3. Quality assurance for civil works in MPWT strengthened	Ministry of Public Works and Transport PSOVICHE-ANO@ONLINE.COM.KH Phnom Penh, Cambodia

Continued on next page

Investment projects in RIF 2022 continued—Cambodia

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											4. Road safety enforcement in project communes improved	
6	Link road between NR5 and NR6 near Kampong Tralach, north of Phnom Penh	Roads and bridges	The proposed new 21km road, including 1km bridge across Tonle Sap Lake, will shorten the distance between NR5 and NR6 from 64 km to 22km. The link will facilitate the movement of traffic between these major highways north of Phnom Penh and will reduce traffic congestion within Phnom Penh.	2020	60.0	80.0	TBD	TBD	Proposed. Seeking funding No Progress	Kampong Tralach District SEC	21 km road and 1.0 km bridge constructed	Ministry of Public Works and Transport PSOVICHE-ANO@ONLINE.COM.KH Phnom Penh, Cambodia
7	Railway access to the new Phnom Penh Port (53 km)	Rail	This project is expected to provide the following benefits: (i) connecting two international ports, (ii) enhancing multimodal transport, (iii) reducing road accidents and traffic congestion, and (iv) reducing the cost and time of mass transit modes for containers.	TBD	200.0	200.0	TBD	TBD	Proposed. Seeking funding No Progress	SEC	53 km railway constructed	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
8	Southern Siem Reap bypass road (42.64 km)	Roads and bridges	The project will construct a road needed to bypass Siem Reap city to avoid traffic congestion in the city as one moves along the Southern Economic Corridor toward the border with Viet Nam. The road will also enable traffic to avoid the protected area around Angkor Wat.	TBD	128.0	128.0	DP—120.0 (40.0 in three stages) Government of Cambodia—8.0	DP—120.0 (40.0 in three stages) Government of Cambodia—8.0	Proposed. F/S is completed by Korea. Budget is now under request with Korea Exim Bank.	Southern Siem Reap SEC	42.64 km bypass road constructed	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
9	Construction of Logistics Complex at Stung Bot (Poipet, Cambodia–Thailand border)	Other	In addition to reduce the overall logistics cost, the development of the Stung Bot Logistics Complex (SLC), located on the border with Thailand, along the Southern Economic Corridor, is expected to boost economic growth and improve trade within the region, especially with Thailand. The SLC will integrate all logistics services, such	TBD	50.0	50.0	TBD	TBD	Proposed. Seeking funding. No progress	Stung Bot, Poipet SEC	Logistics Complex at Stung Bot constructed	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com

Continued on next page

Investment projects in RIF 2022 continued—Cambodia

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			as ports, storage, and transport networks; the collection and distribution of goods; and cross-border clearance arrangements along the Southern Economic Corridor. The SLC will be an integrated project, involving (i) land development, (ii) a multimodal logistics system, and (iii) a storage–consolidation–distribution system.									
10	Construction of Logistics Complex at Bavet (Bavet, Cambodia–Viet Nam Border)	Other	In addition to reducing the overall logistics cost, the development of the Bavet Logistics Complex (BLC), at the border with Viet Nam along the Southern Economic Corridor, is expected to boost economic growth and improve trade within the region, especially with Viet Nam. The BLC will integrate all logistics services, such as a port, storage, and transport network; the collection and distribution of goods; and cross-border clearance arrangements along the Southern Economic Corridor. The BLC will be an integrated project, involving (i) land development; (ii) a multimodal logistics system; and (iii) a storage–consolidation–distribution system.	TBD	50.0	50.0	TBD	TBD	Proposed. Seeking funding. No progress	Bavet SEC	Logistics complex at Bavet constructed	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
11	Strengthening Overload Control System	Other	The proposed project includes (i) capacity building, (ii) institutional strengthening, and (iii) the provision of overload control equipment and facilities. This was proposed by the Cambodian delegation at the 21st GMS Subregional Transport Forum (STF-21), in Luang Prabang, Lao People's Democratic Republic (Lao PDR).	TBD	5.0	5.0	TBD	TBD	Proposed. Seeking funding No progress	SEC	See description.	Mr. Kong Sophal Deputy Director General, Department of Land Transport, MWPT k_sophal@yahoo.com
12	Siem Reap to Rattanakiri National Roads Upgrading Project (SRNRUP)	Roads and Bridges	The proposed project will develop and complete a National Road between Siem Reap and Rattanakiri of about 390 km, in the North of Cambodia, an economic way between the North East and North West of Cambodia and a regional corridor needed	TBD	450.0	450.0	DPs	DPs	Proposed. Submitted by Cambodia through STF-22	Northern Subcorridor, SEC AH 21 (New)	390 km national road upgraded 1.Speed up economic development,	PHENG Sovicheano, Secretary of State, MPWT

Continued on next page

Investment projects in RIF 2022 continued—Cambodia

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			to improve the interconnectivity between Thailand, Cambodia, Laos and Vietnam and other Southeast Asian Nations. Justifications: Completing the economic corridor network and improving links with South Asia and Southeast Asia								2. coordinate regional economic Development 3. Improve social progress, 4. improve transportation in the North Corridor, connect national border crossings	
Subtotal (Transport Investment Projects in RIF 2022: Cambodia)					2,936.4	3,056.4						
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: Cambodia)						0.0						
Subtotal (Transport Investment Projects: Cambodia)					2,936.4	3,056.4						

People's Republic of China

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
13	Dali-Ruili Railway	Rail	This 330km railway from Dali to Ruili via Baoshan is connected with the Guangtong-Dali Railway, and is an important section of the western route of the Singapore-Kunming Rail Link (SKRL). It is essential for the completion of the SKRL's western route and for the establishment of the Third Asia-Europe Continental Land Bridge. The line will be Class I, electrified, and with a maximum speed of 140 km per hour (km/h) for passenger trains.	2006	4,008.0	4,008.0	Government of the PRC—4,008.0	Government of the PRC—4,008.0	<p>Ongoing. The adjustment of feasibility study was approved in 2014 by the NDRC and the estimated cost is \$4008 million.</p> <p>The Dali-Baoshan section started in June 2008. As of June 2019, an accumulative investment of around \$730 million had been fulfilled, with basically all the roadbed and bridges, as well as 83% of tunnels of the section completed.</p> <p>The Baoshan-Ruili section commenced in December 2015 and is progressing steadily. As of June 2019, an accumulative investment of around \$1,011 million had been fulfilled, with 48% of tunnels of the section completed.</p>	North-South Economic Corridor	330 kilometers of railway built	Mr. Xu Jun 13769117987

Continued on next page

Investment projects in RIF 2022 continued—People’s Republic of China

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
14	Rehabilitation of the Ning'er–Jiangcheng–Longfu road (part of Yunnan Pu'er Regional Integrated Road Network Development Project)	Roads and bridges	This 234 km road runs from Ning'er to the No.3 boundary marker (Longfu check point) along the border between PRC and Viet Nam, via Jiangcheng county. This road is an important route connecting southern Yunnan to Lao PDR and Viet Nam, and important, providing infrastructure to support trade and regional cooperation among the People's Republic of China (PRC), Lao People's Democratic Republic (Lao PDR), Myanmar, and Viet Nam.	2014	589.5 (Ning'er–Jiangcheng–Longfu road 268.40)	589.5 (Ning'er–Jiangcheng–Longfu road 268.4)	ADB—200.0 Government of the PRC—389.53	ADB—200.0 Government of the PRC—389.5	Ongoing. This project started in Oct. 2016. An accumulative investment of \$120.22 million has been fulfilled, which accounts for 44.8% of total estimated investment. The subgrade construction will be completed by December 2019. The pavement and landscape construction will be completed by June 2021.	North-South Economic Corridor	234 kilometers of roads to be constructed or rehabilitated	Mr. Yang Jie +8613987957611 1015137548@qq.com Yunnan Pu'er Municipal Transport Bureau
15	Yuxi–Mohan Railway	Rail	The 507 km railway runs from Yuxi to Mohan via Xishuangbanna, linking with the Kunming–Yuxi Railway. Once it is connected to the railway currently under construction on the Lao PDR side, this route will be one of the most direct from the PRC to the Association of Southeast Asian Nations (ASEAN) countries. As a section of SKRL's middle route, this line is crucial to the establishment of an ASEAN–PRC Free Trade Agreement, the economic development of the GMS sub-region, and a modern integrated transport network. The line will be Class I, electrified, and with a maximum speed of 160 km/h for passenger trains; double track from Yuxi to Xishuangbanna.	2014	8,062.5	8,062.5	Government of the PRC—7,912.5 ADB—150.0	Government of the PRC—7,912.5 ADB—150.0	Ongoing. This project commenced in April 2016 and will open to traffic by 2021. As of June 2019, an accumulative investment of \$4,549.8 million had been fulfilled, with basically all roadbed and bridges on the section completed. 37 tunnels along the route were finished, accounting for around 64% of the total tunnel construction plan.	Yuxi to Mohan, Yunnan Province NSEC	507 kilometers of railway built	Mr. Dong Haoyong +86-10-51848407 China Railway Corporation (Formerly Ministry of Railways)

Continued on next page

Investment projects in RIF 2022 continued—People’s Republic of China

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
16	Jinghong–Daluo Expressway	Roads and bridges	The project is an important part of the north–south corridor (Kunming–Daluo–Tachilek–Chiang Rai), and has already been incorporated into the PRC’s Planning for the National Expressway Network (G8512), including a total length of 104.88 km; 4 lanes; and the border control point at Menghai, the PRC. The existing road along the corridor links Daluo, the PRC; northern Myanmar; Tachilek, Myanmar; and Chiang Rai, Thailand. However, the road is in poor condition and in need of a renovation. The construction of a new road will improve transport connectivity among the PRC, Myanmar, and Thailand; and will boost the development of the economy, trade, tourism, etc. Meanwhile, the completed corridor will serve as a strong complement to the Kunming–Bangkok Highway, and will provide more options for the movement of people and cargo within the region.	2016	2,388.0	2,656.0	Government of PRC	Government of PRC	Proposed Planning for this project has already been completed under PRC’s Planning for the National Expressway Network (G8512). However, it has not yet been included in the thirteenth Five-Year Plan. Preliminary work for the project has already begun, with the feasibility study completed. According to the feasibility study report, the expressway is expected to be 4-lane (two-way), with a total length of 104.88km. Implementation has not started yet.	Kunming–Daluo–Tachilek–Chian Rai NSEC	See project description.	Mr. SHAN Hongjun Deputy Director General Department of International Cooperation Ministry of Transport, nicolehu837@hotmail.com
*Not applicable	Viet Nam: Lao Cai–Hekou (4.7 km) PRC: Hekou–Lao Cai (3 km)	Rail	The proposal regarding Rail Link 9—connecting Kunming, Ha Noi, HCMC, Phnom Penh, and Bangkok (SKRL main line)—is for a standard gauge track between the PRC and Viet Nam systems. Viet Nam is funding a feasibility study, and the PRC and Viet Nam are conducting bilateral discussions regarding the actual route and the points where the line would cross the border.	TBD	*Cost estimate listed under Viet Nam to avoid double counting (33.6)	*Cost estimate listed under Viet Nam to avoid double counting (33.6)	ADB	ADB	Proposed. The Preliminary Report for the planning of Rail from Lao Cai to Hanoi to Haiphong was finished in Jan 2018 by China and has already been submitted to Viet Nam. China invites Viet Nam to fill in the latest progress of the project.	Lao Cai – Hekou NSEC		Mr. SHAN Hongjun Deputy Director General Department of International Cooperation Ministry of Transport, nicolehu837@hotmail.com
Subtotal (Transport Investment Projects in RIF 2022: PRC)					15,386.0	15,316.0						
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: PRC)									0.0			
Subtotal (Transport Investment Projects: PRC)					15,386.0	15,316.0						

Lao People's Democratic Republic

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
17	Hongsā (Xayaboury)–Chomphet (Luang Prabang) Construction (114 km)	Roads and bridges	This road is part of the tourism corridor that includes Chiang Rai, Chiang Mai, Luang Prabang (Chiang Thong), and Vientiane. The section's construction will promote trade, investment, and tourism.	2015	90.0	90.0	NEDA Thailand—90.0	NEDA Thailand—90.0	Completed. Completed and preliminary handover ceremony held on 5 Aug 2019	Hongsā, Xayaboury-Chompet (Luang Prabang), NSEC Linked with NSEC	114 km road constructed	Department of Roads, MPWT, Mr. Laythong, Deputy Director of Division +856 20 22240630 lphommavong@gmail.com
18	Vang Tao Border-Crossing Point	Border-crossing facilities	This facility between Vang Tao and Chong Mek along National Road (NR) 16 is one of the border-crossing points between southernmost Lao PDR and Thailand. The border-crossing facility does not meet the implementation requirements of the GMS Cross-Border Transport Facilitation Agreement (CBTA).	2013	15.0	15.0	Government of Lao PDR—15.0	Government of Lao PDR—15.0	Ongoing. Progress to date is 82%. The project has got postponed to 2019 budget. It is expected to be completed in the 1 st quarter of 2020.	Vang Tao, Lao PDR Chong Mek, Thailand Located about 45 km East from SEC on NR 16B or AH	Vang Tao and Chong Mek Border facility upgraded per GMS CBTA requirements	Champasack DPWT; Mr. Kittisack, +856 20 23657222 Kt_tisack@gmail.com
19	Vientiane–Boten Railway Project (414km) ¹	Rail	The Vientiane–Boten Railway Project will connect the Chinese railway in the north of Lao PDR at the Chinese border to Vientiane, and can potentially connect soon to the Thai rail line via Nong Khai in the near future. This standard gauge railway with a speed of 160 km/h for passenger train and 120 km/h for freight train will form part of the substantial 3,000 km Singapore–Kunming Rail Link.	2016	5,800.0	5,800.0	Government of the PRC—5,800.0	Government of the PRC—5,800.0	Ongoing. The overall progress up to June 2019 is at 72.8%.	Vientiane to Boten, NSEC	414 km railway constructed 1. Reduce transport costs 2. Increase people-to-people visits 3. Enhance trade and promote cultural exchanges	Lao National Railway Company and Laos-China Railway project committee
20	Thanalaeng–Nong Khai Railway Extension Project (7.5 km)	Rail	The construction of section one, with support from NEDA, was completed in April 2016. The extension from Thanalaeng to Vientiane Station (section 2) is ongoing.	2016	28.5	28.5	NEDA Thailand—28.5	NEDA Thailand—28.5	Ongoing. Completed a signing for contractor in June 2019, construction to be commenced in Dec 2019 and expected for completion in 2021.	Thanalaeng, Lao PDR to Nong Khai, Thailand NSEC	7 km of railway constructed from Thanalaeng, Lao PDR to Nong Khai, Thailand	Department of Railways, MPWT, Mr. Hinphet, Project Coordinator, +586 20 55908179 hinlakhonvong@yahoo.com

Continued on next page

Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
21	Ban Mom River Port	Ports and waterways	Ban Mom, in Bokeo Province, is situated on the Mekong River. Under the Agreement on Commercial Navigation on Lacang-Mekong River (PRC, Lao PDR, Myanmar, and Thailand), Ban Mom Port will be a checkpoint for upstream river traffic from Chiang Saen Port (Thailand) to the PRC. The port will be equipped with cargo handling equipment, immigration and customs offices, and warehouses.	2017	12.0	12.0	Private sector/ Government of Lao PDR—12.0	Private sector/ Government of Lao PDR—12.0	Ongoing. It's on the 2 nd year of PPP operating period & it sees the upgrading progress of the port at 1.5%. Remains under the private concession period	North of Laos, NSEC	Port will be equipped with cargo handling equipment, immigration and customs offices, and warehouses	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com
22	NR13 Improvement and Maintenance Project (Vientiane to Phon Hong) NR 13 North, AH 12 and NR 13 South, AH 11	Roads and bridges	NR13 North (NR13N) connects Vientiane to the country's northern provinces, and NR13 South (NR13S) connects Vientiane to the southern provinces. Present and projected traffic demand requires an expansion of the road to four lanes in some sections and improvements in two other sections. The government has decided to start on the section of NR13N from Sikeut to Phon Hong, which totals 58 km. The project will be implemented using the Output- and Performance-Based Road Contracts (OPRC) approach.	2018	129.5	129.5	World Bank (International Development Association credit)—40.0 Nordic Development Fund (NDF)—9.5 Asian Infrastructure Investment Bank (AIIB)—40.0 Government of the Lao PDR—40.0	World Bank (International Development Association credit)—40.0 Nordic Development Fund (NDF)—9.5 Asian Infrastructure Investment Bank (AIIB)—40.0 Government of the Lao PDR—40.0	Ongoing. The Project has been approved by WB and NDF board in May 2018 and AIIB in July 2019. Combined evaluation report for OPBRC contractor has been completed. It is expected that the construction can begin in Dec 2019.	Vientiane to Phon Hong Located on NSEC.	58 km road expanded to 4 lanes in some sections and improved in 2 other sections Key Outcomes: 1. Yielding Economic benefits from reduced vehicle operating cost 2. Helping reduce traffic injury & fatality risks as well as enhancing safety of pedestrians 3. Road infrastructure which is more resilient to climate events	Department of Roads, MPWT Mr. Latsamy Aliyavongsing, Project Director +856 20 22205713 sithasali@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
*Not Applicable	Mekong Bridge at Bungkan–Paksan (with Thailand)	Roads and bridges	The bridge will facilitate the transport of goods and passengers from northeastern Thailand through central Lao PDR and central Viet Nam via NR8.	2018	*Cost estimate listed under Thailand to avoid double counting	*Cost estimate listed under Thailand to avoid double counting	TBD	NEDA Thailand	Ongoing. Agreement on construction has been signed on June 2019. Loan is expected to be approved in the beginning of September 2019. Construction will commence in mid- 2020 and expected to be completed in mid- 2023.	Bungkan Province, Thailand and Bolikhamxay Province, Lao PDR NSEC Located in a close proximity to NSEC	Outputs listed under Thailand to avoid double counting	Department of Roads, MPWT, Mr. Laythong, Deputy Director of Division +856 20 22240630 lphommavong@gmail.com
23	Xiengkok River Port	Ports and waterways	Xiengkok, in Luang Namtha Province, is located on the Mekong River, and is a suitable location for a river port. Under the quadrilateral Lancang–Upper Mekong River Commercial Navigation Agreement (PRC, Lao PDR, Myanmar, and Thailand), Xiengkok River Port will be a checkpoint for downstream river traffic from the PRC to the Chiang Saen Port, in Thailand. The port will be equipped with cargo handling equipment, immigration and customs offices, and warehouses.	2020	15.0	15.0	Government of the PRC	Government of the PRC	Proposed Construction Agreement has been signed with a Chinese firm since 2015. Fund mobilization is expected in the beginning of 2020.	North of Laos, NSEC	Port will be equipped with cargo handling equipment, immigration and customs offices, and warehouses	Department of Waterways, MPWT Mr. Soukhaseum, Project Coordinator, +856 20 97129695 dalasane@gmail.com
24	Thanaleng Border-Crossing Infrastructure Improvement Project	Border-crossing facilities	The existing Thanaleng border crossing operates restrictively and inefficiently for both passenger and freight traffic, and this will become more severe as daily freight traffic grows beyond the present 300 trucks and 1,000 passenger cars and buses. There is also an urgent need to separate freight traffic from passenger traffic, and to significantly upgrade the road and other infrastructure.	TBD	25.0	25.0	Seeking financing	Seeking financing	Proposed. Only minor improvement and rearrangement carried out by the border-crossing Committee budget. Proposing ADB to provide a study support in order to meet the standard under CBTA requirement like SSI Operation.	Thanaleng, Lao PDR (border with Nong Khai, Thailand) NSEC	Thanaleng Border-Crossing Infrastructure improved	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
25	Upgrading of NR8 East-West Transport Route; ASEAN Highway AH15 (Ban Lao-Nam Phao)	Roads and bridges	NR8 branches off from NR13S at Ban Lao, passing through the districts of Khamkeut and Lak Sao before reaching the Lao PDR-Viet Nam border crossing point at Nam Phao-Cau Treo. After the point, it connects to Cua Lo seaport, in the city of Vinh, Viet Nam. The road does not meet ASEAN standards, but this portion of the road has been slated for upgrading under the Master Plan on ASEAN Connectivity.	TBD	80.0	80.0	The Korea International Cooperation Agency (KOICA) is supporting the feasibility study	The Korea International Cooperation Agency (KOICA) supported the feasibility study and WB is developing a pre-FS.	Proposed. Final FS Report has been completed and presented to the Lao Govt on the 28 May 2018. It has been selected as Initial Pipeline for Implementation of ASEAN Connectivity, and WB expert team are developing a Pre-FS and a financing options analysis for the Project.	NSEC	NR8 East-West Transport Route; ASEAN Highway AH15 upgraded to ASEAN standards	Department of Roads, MPWT Mr. Bouachanh, DDG, obouachanh@yahoo.com
26	Lalay Border-Crossing Point (NR15)	Border-crossing facilities	This facility is located at the Lao PDR-Viet Nam border-crossing point on NR15 in Salavan Province. This road is a crucial link to the seaports in Viet Nam. The existing border-crossing facilities do not meet the requirements of the GMS CBTA.	TBD	10.0	10.0	Seeking financing	Seeking financing	Proposed. Requires funding for a pre-FS/ Needs assessment	South of Laos in a close proximity to the SEC	Lalay Border-Crossing Point facilities upgraded to meet GMS CBTA requirements	Salavan DPWT, Mr. Viengxay, Project Coordinator +856 20 5544883
27	Na Phao Border-Crossing Point (NR12)	Border-crossing facilities	This facility is located at the Lao PDR-Viet Nam border crossing point on NR12 in Khammouane Province. After the Third Thai-Lao Friendship Bridge was opened, transit traffic through Thailand, the Lao PDR, and Viet Nam, increased considerably. The existing border-crossing facilities do not meet the requirements of the GMS CBTA.	TBD	TBD	TBD	Seeking Financing	NEDA Thailand already completed a Pre-FS	Proposed. Will be part of works of Road NR 12 Upgrading Project.	Na Phao, Khammouane Province, NSEC	Na Phao Border-Crossing facilities upgraded per GMS CBTA requirements	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com
28	Luang Namtha-Xiengkok-Lao-Myanmar Friendship Bridge (NR17)	Roads and bridges	NR17 starts from Luang Namtha town, in Luang Namtha Province, passes through Muang Sing and Muang Long, and connects with the Lao-Myanmar Friendship Bridge, in Xiengkok. This road is part of the ASEAN-India transport corridor. This section also falls in the North East-West Transport Corridor, or ASEAN Highway (AH) 13.	TBD	150.0	150.0	Seeking Financing	Under Lao-India Cooperation Framework for financing	Proposed.	Luang Namtha to Xiengkok NSEC	TBD	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
29	Luang Prabang–Phonexay District–Viengtong District (NR4B)	Roads and bridges	This will provide the shortest link between Luang Prabang and Sam Neua Province, which can link Thailand from Nan Province through Luang Prabang And Sam Neua to Viet Nam province of Thanh Hoa. This will be another crucial tourism and logistic corridor among the three countries.	TBD	148.0	148.0	TBD	TBD	Proposed. Financing required for this new alignment, FS and construction.	Linked to NSEC	165 km road constructed	Department of Roads, MPWT, Mr. Souksakhone, NR6 Project Manager, +856 20 55628049 ssoutannou-vong@yahoo.com
30	Luang Prabang–Dien Bien Phu (107 km - section Phu Thit Pheung – Na Sone/Lao-Vietnam Border)	Roads and bridges	Luang Prabang and Dien Bien Phu are both historic sites and tourist attractions. Providing road connections will promote tourism between the two countries.	TBD	90.0	90.0	Government of Viet Nam	Government of Viet Nam	Proposed.	Luang Prabang, Lao PDR – Dien Bien Phu, Viet Nam NSEC	107 km of road constructed	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com
31	Phiafay–Attapeu: NR18A (106 km)(Parts of AH 132) East–West Transport Route	Roads and bridges	NR18 comprises NR18A and NR18B. NR18A branches off in Phiafay, starting from the junction with NR13S, and ending in Muong Samakheexay, the capital of Attapeu Province. NR18B starts from Muong Samakheexay and passes through the Lao PDR–Viet Nam border-crossing point at Phou Kuea – Beu Ee.	TBD	130.0	130.0	Seeking Financing	The Netherland Government (RVO & FMO) funded technical and project costing	Proposed Completed a technical and project costing negotiation in Feb 2019. MOF will further work on loan request.	Attapeu Province, Lao PDR to Beu Ee, Viet Nam SEC	TBD	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
32	Vientiane–Thakhek–Mu Gia Railway Project (450 km) Mu Gia–Vung Ang (119 km)	Rail	The Vientiane–Thakhek–Mu Gia Railway Project covers a portion of the spur line of the SKRL. This spur line will connect the Thai railway network to the Vietnamese railway network. The Republic of Korea assisted with a feasibility study.	TBD	6,025.0	6,025.0	for possible PPP	Seeking financing for possible PPP	Proposed. Govt. proposing The Korean Govt to allow a private sector involving in PPP investment (section Thakhek, Laos - Mugia, Vietnam (Border) - Vung Ang, Vietnam. KOICA provided a TA for a follow-up service to FS conducted earlier.	Vientiane–Thakhek–Mu Gia, Lao PDR to Vung Ang, Viet Nam NSEC	450 km railway constructed 1. Promoting economic growth by securing railway lines for export and import 2. Creating employment by establishing mass transportation system 3. Promoting tourism industry by developing leisure sports industry	Department of Railways, MPWT, Mr. Ketsana, Project Coordinator, +856 20 22588889 ketsanasouk.khamthath@rocketmail.com
33	Savannakhet–Lao Bao Railway Project (220 km)	Rail	The Government of the Lao PDR signed an agreement with a Malaysian company to develop the Savannakhet–Lao Bao Railway Project as a build–own– operate–transfer (BOOT) scheme.	TBD	4,200.0	4,200.0	Seeking Financing for FS	Seeking Financing for FS	Proposed. Seeking the government approval to terminate the current concessionaire.	Savannakhet, Lao PDR to Lao Bao, Viet Nam EWEC	220 km railway constructed	Department of Railways, MPWT, Mr. Ketsana, Project Coordinator, +586 20 22588889 ketsanasouk.khamthath@rocketmail.com
34	Mekong Bridge at Luang Prabang	Roads and bridges	The project will develop a tourism corridor between the Lao PDR and Thailand, in particular from Chiang Rai to Chiang Mai, Luang Prabang, and the capital city, Vientiane. The road project from Muong Ngeune to Luang Prabang, which crosses the Mekong Bridge at Luang Prabang, is part of this initiative.	TBD	TBD after an FS	TBD after an FS	NEDA Thailand	NEDA Thailand	Proposed. Consulting team has commenced an FS and DD with a support from NEDA in Aug 2019	NSEC	TBD	Department of Planning and Cooperation, MPWT, Mr. Kita, Coordinator +856 20 55534551 khamsa-vong1999@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
35	Selamphao Bridge, at the end of NR14A between the Lao PDR and Cambodia	Roads and bridges	This bridge project is located at the end point of NR14A, which runs from Pakse to Wat Phou, in Champassak Province (World Heritage Site), and to the Lao–Cambodian border. NR14A could connect to Angkor Wat, in Siem Reap, if a bridge across the Selamphao River were in place. Both the Lao PDR and Cambodia are considering the most suitable border-crossing points, and will jointly construct a bridge across Selamphao River.	TBD	30.0	30.0	Joint 50:50 investment by the governments of Cambodia and the Lao PDR	Joint 50:50 investment by the governments of Cambodia and the Lao PDR	Proposed.	Wat Phou, Champassak Province to Cambodia border crossing point NSEC	Selamphao bridge constructed	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com
36	Mekong Bridge for Thanalaeng–Nong Khai Railway Project	Rail	Under a Sino–Lao cooperation scheme, a railway bridge will be built to accommodate the standard gauge at Thanalaeng–Nong Khai. The site for the bridge has been selected by officials from both countries.	TBD	TBD	TBD	Government of the PRC (Under Sino–Lao cooperation scheme)	Government of the PRC (Under Sino–Lao cooperation scheme)	Proposed. Locations of the Bridge has been determined by both technical teams. The FS scope has been included in the Thai–China Railway Project FS.	Thanaleng, Lao PDR to Nong Khai, Thailand NSEC	railway bridge built to accommodate the standard gauge and meter gauge at Thanaleng–Nong Khai	Department of Railways, MPWT, Mr. Hinphet, Project Coordinator, +86 20 55908179
37	Dak Chung Border-Crossing Point (NR16)	Border-crossing facilities	These facilities are located at the Lao PDR–Viet Nam border-crossing points on NR16 in Sekong Province. The existing border-crossing facilities do not meet the implementation requirements of the GMS CBTA.	TBD	10.0	10.0	Seeking Financing	Seeking Financing	Proposed.	Sekong Province, Lao PDR SEC?	Dak Chung Border-Crossing facilities upgraded to meet GMS CBTA requirements	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com
38	Houei Sai River Port	Ports and waterways	As inland transport is becoming more important, especially for tourism, building this river port is necessary.	TBD	13.0	13.0	Seeking Financing	Seeking Financing	Proposed. Discussed with Thai side for a possible upgrade to international border check point in JCCN framework.	Houei Sai, Lao PDR NSEC	Houei Sai river port built	Mr. Visara Khamvongsa, Technical Officer Department of Planning and Cooperation, MPWT visara.khamvongsa@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
39	Pakbeng River Port (Oudomxay Province)	Ports and waterways	The town of Pakbeng is situated on the Mekong River, on NR2. It is also on the border between Sayabouly and Oudomxay provinces, at the midpoint between Bokeo and Luang Prabang. As inland transport is becoming more important, especially for tourism, building this river port is necessary.	TBD	13.0	13.0	Government of the PRC	Government of the PRC	Proposed. Construction Agreement has been signed with a Chinese firm since 2015. Fund mobilization is expected in 2020.	Pakbeng, Oudomxay Province Lao PDR NSEC	TBD	Department of Waterways, MPWT Mr. Soukhaseum, Project Coordinator, +856 20 97129695 dalasane@gmail.com
40	Khokchong River Port (same as Luang Prabang River Port)	Ports and waterways	Inland water transport traffic between Bokeo and Luang Prabang, in terms of goods and passengers, is growing steadily. There is an urgent need to construct a good river port in Luang Prabang that will have the necessary handling equipment and warehouses.	TBD	15.0	15.0	Government of the PRC	Government of the PRC	Proposed. Construction Agreement has been signed with a Chinese firm since 2015. Fund mobilization is expected in 2020.	Luang Prabang, Lao PDR NSEC	TBD	Department of Waterways, MPWT Mr. Soukhaseum, Project Coordinator, +856 20 97129695 dalasane@gmail.com
41	Vientiane–Ha Noi Expressway Project (Portion from Vientiane to Nam On: 335 km)	Roads and bridges	This is the first expressway project linking the two capitals, and it is the top priority project under the Lao PDR and Viet Nam national investment plans.	TBD	3,500.0	4,250.0	JICA	JICA	Proposed. Preliminary data collection completed in April 2018. Request for a further study from JICA on the best alignment option in Lao side.	Closely parallel with NSEC	335 km Expressway from Vientiane to Ha Noi constructed	Department of Planning and Cooperation, Mr. Chao Yang, Coordinator, +856 20 54762416 jaoyang@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
42	Upgrading 13S (portion from Savannakhet Province to Bolikhamxay) (253 km)	Roads and bridges	This will link the East–West Economic Corridor (EWEC), also known as NR9 (or AH16), and the two newly established economic corridors: NR12 (or AH131) and NR8 (or AH15). It will also provide the foundation for a connection between the Kunming–Luang Prabang–Vientiane–Paksan–Thakhek–Savannakhet stretch of the North–South Economic Corridor (NSEC) and connecting Cambodia, up to Savannakhet, via the Southern Economic Corridor (SEC).	TBD	TBD	200.0	Seeking financing	WB—25.0 AIIB—114.0 EIB—35.0 NDF—5.0 Government of Lao PDR—15.0	Proposed. A portion from Vientiane Capital KM 21 to khammouane Province KM 346 with OPBCR Investment Option.	Joining of NSEC, EWEC & SEC	325 km of NR13 S or AH 11. Improvement and maintenance the existing alignment with some widening section. Concrete and Asphalt Concrete Overlaying	Department of Roads, MPWT Mr. Bouachanh, DDG, obouachanh@yahoo.com
43	Navigation Channel Improvements: Lower Mekong from Luang Prabang to Savannakhet (Mekong River Commission)	Ports and waterways	The project will carry out a site investigation and survey the free-flow section of the hydropower dam for installation of aid for navigation and channel improvement.	2019	12.2	12.2	TBD	TBD	Proposed.	N/A	N/A	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
44	Port Construction and Improvement from Vientiane to Savannakhet (Vientiane Port; Paksan Port; Thakek Port and Savannakhet Port)	Ports and waterways	The capital city, Vientiane, is the political, economic, and transport center of the Lao PDR. The existing 4 km-long port is located downtown, and it can no longer accommodate the growing quantity of cargo and passengers. This location will be renovated as a registration and inspection center. This port must move downstream, near the industrial economic zone and container yard, around 40 km from the capital. Paksan, in Bolikhamxay Province, is located between Vientiane, Thakhek, and Savannakhet. In the future, the Vientiane–	2020	19.4	19.4	TBD	TBD	Proposed.	NSEC	N/A	Department of Waterways, MPWT Mr. Soukhaseum, Project Coordinator, +856 20 97129695 dalasane@gmail.com

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>Hanoi expressway will link Bolikhamxay Province with the two capital cities. The existing Paksan Port is not suitable for expansion, so it should be moved to the special economic zone (SEZ) that is next to the new Thai–Lao Friendship Bridge, where it can connect to roads R8, R12, R13; the railway network; and the Vientiane–Hanoi expressway.</p> <p>Similar to Paksan Port, Thakhek Port cannot berth a big vessel and load or unload its cargo. The new location should be farther upstream, next to the Thai–Lao Friendship Bridge and the SEZ, where it could also connect to the railway and to roads R8, R12, R13.</p> <p>Savannakhet is in a very important location, and it could be a second-rank transportation hub for the Lao PDR. Savannakhet is a conjunction of roads R9 and R13, the railway, and air traffic. The existing Kengkabao Port is no longer suitable for use as a port terminal, so the provincial government has allowed a local investor to renovate this port and adapt it for other purposes.</p>									
Subtotal (Transport Investment Projects in RIF 2022: Lao PDR)					20,560.6	21,510.6						
Projects proposed to be added in RIF 2022												
45	The Capital City Vientiane to Vang Vieng Section of Lao PDR Capital City Vientiane to PRC Mohan Port Highway Project	Roads and bridges	The capital city Vientiane to Vang Vieng section of Lao PDR capital city Vientiane to PRC Mohan port highway project, about 113.5 kilometers long, the construction period is planned to be 3 years.	2027		1,300.8		PRC—1,300.8	Ongoing. Submitted by PRC on 16 October 2019 as a supplementary project.	Vientiane, Lao PDR	113.5 kilometers long highway from capital city Vientiane to Vang Vieng built	Yunnan Infrastructure Investment Co., Ltd of YCIH.Zhou

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Investment projects in RIF 2022 continued—Lao People’s Democratic Republic

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact	
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)					
46	New Highway Construction Project (Boten, Luang Namtha Province, Lao PDR to Houay Xai, Bokeo Province, Lao PDR)	Roads and bridges	The highway starts at Boten port (opposite to Mohan port, PRC), via Luang Namtha Province, Luang Namtha, Bokeo Province, Houay Xai, and stop at Houay Xai port (opposite to Chiang Khong port, Thailand), about 181 kilometers long.	TBD		3,600.0			TBD	Proposed. Feasibility study is being undertaken. Submitted by PRC on 16 October 2019 as supplementary project.	Boten, Luang Namtha Province, Houay Xai, Bokeo Province, Lao PDR, NSEC	181 kilometers highway built from Boten to Houay Xai	Yunnan Communications Investment & Construction Group Co. Ltd. He Jianguo, Tel: 8613888259317
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: Lao PDR)						4,900.8							
Subtotal (Transport Investment Projects: Lao PDR)					20,560.6	26,441.4							

Myanmar

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
*Not Applicable	Mae Sot-Myawady Border Crossing Project and Infrastructure Improvements (with Thailand)	Border crossing facilities	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 cross-border 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-meter-long 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	*Project # and Cost estimate listed under Thailand to avoid double counting	Government of Thailand	Government of Thailand	Completed.	Kayin State, Myanmar EWEC	New 4 lanes on border line	U Kyaw Kaung Cho, Chief Engineer, Department of Bridge, Ministry of Construction +95 67 407465 kkcho73@gmail.com
47.	East-West Economic Corridor Eindu-Kawkareik Road Improvement Project	Roads and bridges	The project will improve 66.4 km of road between Eindu and Kawkareik. It is in Myanmar's Kayin State, which borders on Thailand.	2016	121.8	121.8	ADB—100.0 ASEAN Infrastructure Fund—20.0 Government of Myanmar—1.8	ADB—100.0 ASEAN Infrastructure Fund—20.0 Government of Myanmar—1.8	Ongoing. As ICB-1 the length of road from 0+000 km to 40+440 km, the bridges and culvert on that road are being implemented and the completion of the whole project is 45.23% resulted from the end of June 2019. 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 23.35% resulted from the end of June 2019.	Kayin State, Myanmar EWEC	66.4 km of upgraded road	DawPhyuPhyu, Deputy Director PMU Section, Department of Highways 09-5143832 edkkrpmu@gmail.com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
48	GMS EWEC Corridor Improvement I and II	Roads and bridges	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	550.2	550.2	JICA-550.2	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	U Thein Myint Mon, Chief Engineer, Department of Bridge, Ministry of Construction +95 067407514
49	Thaton–Payagyi Road Improvement Project	Roads and bridges	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 grade-separated interchange with NR1 at Payagyi.	2018	128.0	128.0	Private Sector (BOT System)-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	Daw Thazin Khin Maung San Assistant Director BOT Section, Department of Highways 09-420724199 botsection@gmail.com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
50	Daluo (PRC)–Tachileik (Myanmar) Highway	Roads and bridges	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	93.0	Public Private Partnership (BOT System) Government of Myanmar–46.5 Private Sector–46.5	Public Private Partnership (BOT System) (156.8km) Department of Highways (87.5km)	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	U Myint Oo Director, Road Design Section Department of Highway 09-2039482 myintoopak- okku@gmail. com
51	Bridge on the Kyaington–Lyainglin–Taunggyi Road (AH2)	Roads and bridges	The service life of the Tarkaw (Thanwin) 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	15.8	Government of Myanmar–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.	Eastern & Southern Shan State, Myanmar. NSEC	A new bridge with capacity of HS-25.	U Kyaw Thu, Chief Engineer, Department of Bridge, Ministry of Construction +95 067407276 Email: irsectionl@gmail. com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
52	GMS Highway Modernization Project	Roads and bridges	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 Bago–Thanlyin highways, (ii) improving of the 64 km of Yangon–Mandalay Expressway from No.3 Junction to Bawnatgyi Junction and the safety improvement of the YME, and (iii) preparing detailed designs for other highway projects, also along GMS corridors.	2018	202.1	202.1	ADB-200.0 Government of Myanmar-2.1	ADB-200.0 Government of Myanmar-2.1	Ongoing Highway Modernization Project was approved Hluttaw on 26.3.2018. ADB and MOPF negotiated 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)	Dr Zin Zin Htike Deputy Director (Civil) Department of Highways 09-5058066 mazinzhhtike@gmail.com
53	Bago–Kyaikto Road	Roads and bridges	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. 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	164.3	ADB-164.3	ADB-164.3	Proposed. The Project will be processing up to the FS report under the TA project	Bago Region and Kayin State EWEC	70 km new arterial highway between Bago and Kyaikto	Dr. Zin Zin Htike, Deputy Director (Civil) , Department of Highways 09-5058066 mazinzhhtike@gmail.com
54	Upgrading of Mawlamyine – Dawei – Hteekhee Rail Link (452.58 km)	Rail	Mawlamyine-Dawei 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) to Thailand.	2020	TBD	TBD	ADB NEDA Thailand	ADB NEDA Thailand	Proposed.	Mon State Tanintharyi Region SEC	Upgraded Rail Link and New spur line	Deputy General Manager (Planning) Administration Department, Myanma Railways +95 67 77084 dgm.planning.mr@gmail.com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact										
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)														
55	Improvement of Six Inland Ports	Ports and waterways	<p>The project includes the establishment of six inland ports along the Ayeyarwaddy and Chindwin rivers. The feasibility study for Mandalay Port was completed in February 2014. To construct Mandalay port, the government got Grant Aid from JICA. The total implementation cost for Mandalay Port is 53.644 million USD, and the estimated implementation time is about 2 years. Pakokku Port is requested to KOICA for FS and Monywa Port also requested to KOICA for FS and Grant Aid to implement. Two other inland ports (Magway Port and Kalewa Port) are planned to be built with the support of private investors.</p> <p>Updated cost estimate breakdown:</p> <table border="0"> <tr> <td>Mandalay Port:</td> <td>53.644</td> </tr> <tr> <td>Monywa Port:</td> <td>79.994</td> </tr> <tr> <td>Magway Port, Kalewa Port and Bhamo Port:</td> <td>21x3= 63.000</td> </tr> <tr> <td>Pakkoku Port:</td> <td>40.000</td> </tr> <tr> <td>Total</td> <td>236.638</td> </tr> </table>	Mandalay Port:	53.644	Monywa Port:	79.994	Magway Port, Kalewa Port and Bhamo Port:	21x3= 63.000	Pakkoku Port:	40.000	Total	236.638	TBD	159.5	236.6	JICA, Government of Belgium, Private Sector	JICA, Private Sector, KOICA, PPP	<p>Proposed. For Mandalay Port, Exchange Notes was signed with JICA. Belgium fund was cancelled. DWIR communicated with KOICA for Monywa and Pakkoku port. DWIR submitted the project proposal for the construction of three Ports; Bamaw, Pakokku, and Monywa to Economic Committee. After approval of Economic Committee, DWIR will proceed to invite the private investors for port development. Other 2 ports Magwe and Kalawa are second priority and expected to construct in 2020 with private investment.</p>	<p>Mandalay Region, Chin State, Sagaing Region, Magway Region, NSEC</p>	Inland port facilities will be upgraded and water way transportation mode will be improved	U Aung Myo Khaing Director, Directorate of Water Resources and Improvement of River System +95 9 5150213 +95 1 292840 aungmyokhaing.77@gmail.com;
Mandalay Port:	53.644																					
Monywa Port:	79.994																					
Magway Port, Kalewa Port and Bhamo Port:	21x3= 63.000																					
Pakkoku Port:	40.000																					
Total	236.638																					
56	Loilem–Kyaington Road Section (356km) (GMS Road Section of R7 and Secondary Road of Corridor)	Roads and bridges	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.	TBD	359.0	359.0	TBD	TBD	Proposed	Eastern and Southern Shan State, Myanmar. NSEC	359 km of upgraded road	U Myint Oo, Director, Road Design Section Department of Highways 09-2 039482 myintoopakokku@gmail.com										

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
57	Ruili (PRC)–Kyaukpyu (Myanmar) Highway	Roads and bridges	<p>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.</p> <p>(1) Mandalay-Tigyaing Expressway Mandalay-Tigyaing Expressway is an important part of the main trunk line of north-south highway in Myanmar and it is also the main axis of road network of the east-west direction "China-Myanmar-India" International Corridor in the future development plan of Myanmar. With the new round of planning by the Myanmar government, and in order to meet the future development and strategic needs, to promote the economic development and social stability along the project and improve road capacity and comfort, it is imperative that Myanmar needs to extend the existing Yangon-Mandalay Highway northwards, thus forming a national northsouth transport corridor. Heading east from Tigyaing, it passes northern Shan State and southern Kachin State, spans mountainous areas along Shweli River and leads to Muse, an important trade port at China-Myanmar border. Heading west from Tigyaing, it connects the existing Mandalay-Myitkyina Road and may head west to Myanmar-India border in the future.</p> <p>(2) Tigyaing-Muse Expressway Tigyaing-Muse Expressway is an important part of the main trunk line of east-west- highway in Myanmar and it is also the main axis of road network of the east-west direction</p>	TBD	1,000.0	2,153.8	Private Sector (China Haour Engineering Co.Ltd [CHEC])	Private Sector (China Haour Engineering Co.Ltd [CHEC])	<p>Proposed. It has already signed MoU with CHEC which was recommended by China Embassy and MOFA. Feasibility Study is ongoing and expected to finish in April 2020.</p> <p>Project implementation will be processed after the FS report.</p> <p>Expected year of commencement: 2022 Expected year of completion: 2028</p>	Northern Shan State, Mandalay Region, Nay Pyi Taw, Magway Region & Rakhine State. NSEC (NSEC 5 and NSEC 6)	New alignment construction and /or upgrading of the following: a)Mandalay-Tigyaing Expressway- 219 kilometers b)Tigyaing-Muse Expressway-190 kilometers c)Nay Pyi Taw – Kyaukphyu Highway-262 kilometers	U Myint Oo Director, Road Design Section Department of Highway 09 2039482 myintoopak-okku@gmail.com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>“China-Myanmar-India” International Corridor in the future development plan of Myanmar. Meanwhile, this project is connected with Mandalay-Tigyaing Expressway (the main trunk line of north-south transportation in Myanmar) at Tigyaing. With the new round of planning by the Myanmar government, and in order to meet the future development and strategic needs, to promote the economic development and social stability along the project and improve road capacity and comfort, it is imperative that Myanmar needs to upgrade the existing road network.</p> <p>(3) Nay Pyi Taw – Kyaukphyu Highway The project connects the deep-water port city in western Myanmar, i.e. Kyaukpyu and the capital city Naypyitaw, and connects with the Yangon-Mandalay Highway. As a north-south transport artery of the national road network, the Yangon-Mandalay Highway plays an important role in the national road network. The Kyaukpyu-Naypyitaw Highway, as an east-west branch of the transport artery, has played a role in increasing the radiation intensity of the road network. As a special economic zone, Kyaukpyu’s future development is inseparable from the support of the road network. Therefore, the connection between Kyaukpyu and Naypyitaw will greatly promote the upgrading of the national road network in Myanmar.</p>									
58	Upgrading of Wan Pong Port with 500-ton container-handling facilities	Ports and waterways	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.	TBD	50.0	50.0	Joint Committee on Coordination of Commercial Navigation Lancang-Mekong Cooperation Special Fund	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.	U Aung Myo Khaing Director, Directorate of Water Resources and Improvement of River System +95 9 5150213 +95 1 292840 aungmyokhaing.77@gmail.com

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Investment projects in RIF 2022 continued—Myanmar

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
59	Border Control Facilities at Border Crossing Points: Tachilek and Muse	Border control facilities	These border control facilities are needed to facilitate cross-border transport with neighboring GMS member countries under the full GMS CBTA	TBD	TBD	TBD	ADB, PRC, NEDA & Thailand	ADB, PRC, NEDA & Thailand	<p>Proposed. It needs to construct BCF at Tachilek and Muse BCPs.</p> <p>Lao- Myanmar Friendship Bridge and BCF completed in May 2015.with Government of Myanmar funding of MMK 2,604.0 million</p>	Eastern and Northern Shan State NSEC	Border Crossing Facilities constructed at Tachilek and Muse border crossing points.	FERD, Ministry of Planning and Investment ferdsection@gmail.com
Subtotal (Transport Investment Projects in RIF 2022: Myanmar)					2,843.7	4,074.6						
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: Myanmar)							0.0					
Subtotal (Transport Investment Projects: Myanmar)					2,843.7	4,074.6						

Thailand

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
60	Mae Sot-Myawaddy Border Crossing Project and Infrastructure Improvements	Border-crossing facilities	<p>The project will build a new bypass road and bridge to the north of the existing border crossing, currently located in the congested centers of the two border cities, Mae Sot and Myawaddy. This new crossing will be dedicated to cross-border freight traffic and will avoid the congested urban areas. The bypass will</p> <p>link with a newly envisioned special trade zone on the Myanmar side. The overall project will consist of about 21.4 km of new four-lane divided highway (16.745 km in Thailand, 3.895 km in Myanmar), a 760-meter-long bridge across the Moei River at the border, and associated border-crossing facilities (BCF).</p>	2015	130.0	130.0	Government of Thailand—130.0	Government of Thailand—130.0	Completed. The construction project of the second Thailand-Myanmar Friendship Bridge crossing Moei/Thaungyin River between Thailand and Myanmar, including the border control facilities (BCF) and approaching roads in both sides have been completed and both sides are preparing for official opening.	EWEC	Cross border bridge with border-crossing facilities and 21.4 km. of 4-lane highway.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
61	Single Rail Transfer Operator Development Project of Laem Chabang Port	Rail	Currently, approximately 88% of the transport from the Laem Chabang Port to the hinterland is via the road system, with the remainder by rail (9.5%) and inland waterway (2.5%). The proposed project will develop infrastructure and necessary facilities for serving the discharging and loading containers transported by rail to the port area. The project will facilitate rail transfer in response to the completion of the State Railway of Thailand's double-track construction project. It will increase the handling capacity of rail transport at the port from the current 500,000 TEUs/year to 1-2 million TEUs/year. The objective of the project is to increase the proportion of container traffic moved by rail from 9% of port throughput to 20%, in line with the government's policy of reducing logistics costs.	2018	90.0	90.0	Government of Thailand (PAT)—90.0	Government of Thailand (PAT)—90.0	Completed. PAT has hired ITD-WH consortium, to construct the project and provide the lifting equipment. The construction was already completed and the project is now being in the operation since 26th October 2018.	Chonburi Province SEC	The handling capacity of rail transport at the port from the current 500,000 TEUs/year to 1-2 million TEUs/year	Port Authority of Thailand (PAT) Laem Chabang Port (LCP)

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Investment projects in RIF 2022 continued—Thailand

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
62	Coastal Terminal Development Project of Laem Chabang Port	Ports and waterways	This project will reduce the logistics costs for exporters, importers, and logistics providers. The coastal terminal will serve domestic waterway transport through Laem Chabang Port.	2018	58.5	58.5	Government of Thailand (PAT)—58.5	Government of Thailand (PAT)—58.5	Completed. The construction was completed. The operation will be tipped to perform by 2019.	Chonburi Province SEC	The capacity of coastal terminal is 300,000 TEUs/year.	Port Authority of Thailand (PAT) Laem Chabang Port (LCP)
63	Tak-Mae Sot Highway Improvement Project	Roads and bridges	The project will improve highway capacity on the EWEC in Thailand, specifically, the stretch of the corridor that connects with the Myanmar section at Myawaddy. It will upgrade the existing 86 km road from two to four lanes.	2008	100.0	100.0	Government of Thailand—100.0	Government of Thailand—100.0	Ongoing. The last remaining of 26.451 km. is under construction with 88.41% progress.	EWEC	86 km. of road to be upgraded from two to four lanes.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
64	Bang Yai–Kanchanaburi Intercity Motorway Project (part of Laem Chabang–Bangkok–Dawei [Myanmar] Corridor)	Roads and bridges	In addition to playing a strong national role, this expressway will be part of the LaemChabang– Bangkok–Dawei (Myanmar) highway corridor, linking the port at Laem Chabang with the proposed deepwater port at Dawei, and with Myanmar's highway network, connecting with Mawlamyine and Yangon. The proposed expressway is an important component of Thailand's National Highway Development Plan.	2015	1,600.0	1,600.0	Government of Thailand—1,600.0	Government of Thailand—1,600.0	Ongoing. This project is under construction with estimated 21.4% progress.	SEC	96 km. of intercity motorway to be constructed.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
65	Chiang Rai–Chiang Khong Highway Improvement Project	Roads and bridges	The project will improve highway capacity of the NSEC in Thailand. It will upgrade the existing 109 km road from two to four lanes.	2015	90.0	90.0	Government of Thailand—90.0	Government of Thailand—90.0	Ongoing. The first 61 km. construction has been completed. The new alignment road project of 48 km. length is under construction with 24.29% progress.	NSEC	61 km. of road to be upgraded from two to four lanes and 48 km. will be constructed in the new alignment.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901

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Investment projects in RIF 2022 continued—Thailand

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
66	Aran-yaprathet-Poipet New Road with Border-Crossing Facilities (Thailand part)	Roads and bridges	Recent discussions at the Prime Minister's office between representatives of Thailand and Cambodia have resulted in a general agreement regarding the location for a new Poipet-Aranyaprathet border crossing, this one specifically for freight traffic. Passenger traffic will continue to use the existing border crossing. The construction of Thailand's part of this new facility will consist of a 4.7km bypass road and a bridge over the Prom Hrod Canal.	2015	30.0	30.0	Government of Thailand—30.0	Government of Thailand—30.0	Ongoing. The bridge construction was completed while the border control facilities in both sides are under preparation process.	SEC	4.7 km. bypass road and bridge.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
67	Lomsak-Phetchabun Highway Improvement Project	Roads and bridges	The project will upgrade the existing 92 km road from two to four lanes. The government budgeted for 11 km in the fiscal year (FY) 2016. The upgrading of the remainder is envisaged in the next five-year plan.	2016	220.0	220.0	Government of Thailand—220.0	Government of Thailand—220.0	Ongoing. The first 11 km. was completed. The remaining 81 km is awaiting approval.	EWEC	92 km. of road to be upgraded from two to four lanes.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
68	Kalasin-Nakrai-Kamcha I Highway Improvement Project	Roads and bridges	The project will improve highway capacity of the EWEC in Thailand between Kalasin and Kamcha I. It will upgrade the existing 107.7 km road from two to four lanes.	2016	170.0	170.0	Government of Thailand—170.0	Government of Thailand—170.0	Ongoing. The Kalasin-Nakrai (71.4 km.) is under construction with estimated 55.47 % progress. The Nakrai-Kamcha I (36.3 km.) is under construction with estimated 21% progress.	EWEC	107.7 km. of road to be upgraded from two to four lanes.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901

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Investment projects in RIF 2022 continued—Thailand

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
69	GMS Highway Expansion Phase 2 Project	Roads and bridges	<p>The proposed project will (i) upgrade about 125 km. of a national highway in northeastern Thailand from a two-lane to a four-lane carriageway, and (ii) strengthen capacity in road safety management by introducing road safety audits and awareness training for the executing agency during project implementation.</p> <p>The project consists of (i) A. Nong Han-A. Pang Khon (ii) Sakon Nakhon-Nakhon Phanom (iii) Roi Et – Yasothon</p>	2017	213.6	213.6	ADB—99.4 Government of Thailand—114.2	ADB—99.4 Government of Thailand—114.2	Ongoing. The Project is under construction with estimated 8.54 % progress.	National Highway (NH) 22 and NH 23 Northeast Thailand EWEC	125 km. of road to be upgraded from two to four lanes.	Bureau of International Highways Cooperation, Department of Highways KRISCHANG-TRA KUL29@GMAIL.COM Tel: (+66) 2354 6901
70	National Railway Improvement	Rail	The proposed project will upgrade 2,476 km of a railway in Thailand from a single track to double track and eliminate all at-grade level crossing.	2018	12,192.3	12,192.3	Government of Thailand—12,192.3	Government of Thailand—12,192.3	Ongoing. The first section of 993 km. is under construction and the second section of 1,483 km. is awaiting government approval of the project.	NSEC EWEC	2,476 km. of double track railways	State Railway of Thailand Email:
71	Laem Chabang Port Development Project, Phase 3—	Ports and waterways	Projections of demand indicate that the total containers accommodated in Basin I and Basin II will exceed 10 million 20-foot equivalent units (TEUs) per year by 2018, while the maximum capacity of Basin I and Basin II together is approximately 11 million TEUs per year. Given these projections, the development of Basin III will be necessary to accommodate the increasing throughput and to strengthen the port's role as a gateway to the GMS. The proposed study will present technical and other options regarding the expansion of the port.	2018	3,000.0	3,000.0	PPP (Public Private Partnerships) Private Sector—3,000.0	PPP (Public Private Partnerships) Private Sector—3,000.0	Ongoing. The National Environment Board approved the study report on environmental health impact assessment (EHIA). The Megaproject construction LPC phase 3 will take place in December 2019.	Chonburi Province SEC	The development of Basin III. We forecast the container will exceed 9.1 million TEUs within 2050, and LCP Phase III can accommodate to 10.2 million TEUs.	Port Authority of Thailand (PAT) Laem Chabang Port (LCP)

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Investment projects in RIF 2022 continued—Thailand

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
72	Mekong Bridge at Bungkan—Paksan (Thailand Part)	Roads and bridges	This bridge will connect Amphoe Muang, Bungkan Province (Thailand) and Muong Paksan, Bolikhamxay Province (Lao PDR). It will facilitate the transport of goods and passengers from northeastern Thailand to central Lao PDR and central Viet Nam via NR8.	2019	80.0	88.0	TBD	Government of Thailand—88	Ongoing. The Cabinet approved the project on 4 June 2019. Construction Agreement signed on 14 June 2019. Both countries are preparing for construction.	Bungkan Province, Thailand and Bolikhamxay Province Lao PDR NSEC	16.18 km construction includes road and bridge.	Bureau of International Highways Cooperation, Department of Highways Tel: (+66) 2354 6901
73	The Construction of a New Railway Line from Den Chai to Chiang Rai and Chiang Khong	Rail	The construction of this new doubling track from Den Chai to Chiang Rai will diminish the country's logistics costs and fuel imports; enhance speed, convenience, and safety; and support integration with neighboring transport systems, such as those in the Lao PDR and southern PRC. It will also benefit development, especially in the northern provinces, such as Phayao, Phare, and Chiang Rai, which will lead to the country's overall economic growth.	TBD	2,278.8	2,278.8	Government of Thailand — 2,278.8	Government of Thailand — 2,278.8	Proposed. The F/S and detailed design are already completed and the cabinet approved the project on 31 July 2018. Currently, the project is awaiting Council of State approval of the Royal Decree.	NSEC	326 km railway	State Railway of Thailand Email:
74	The Construction of a New Railway Line from Baan Pai (KhonKaen) to Mahasarakham, Roi Et, Mukdahan, and Nakhon Phanom	Rail	In 1989, the Government of Thailand decided to improve the nationwide rail network. One important network expansion was the Bua Yai–Mukdahan–Nakhon Phanom line on the GMS EWEC. Circumstances later resulted in the need for a feasibility study on the construction of a new railway line that would be integrated into the EWEC. This new, updated study was significant because it represented one of the milestones of rail infrastructure expansion in the EWEC. The study showed that this proposed route should be built as a doubling track on the new alignment for the Baan Pai (Khon Kaen)–Mahasarakham–Roi Et–Mukdahan–Nakhon Phanom line.	TBD	1,708.9	1,708.9	Government of Thailand —1,708.9	Government of Thailand —1,708.9	Proposed. The F/S and detailed design are already completed and the cabinet approved the project on 28 May 2019. Currently, the project is awaiting Council of State approval of the Royal Decree	EWEC	355 km railway	State Railway of Thailand Email:

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Investment projects in RIF 2022 continued—Thailand

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			For the time being, the State Railway of Thailand is carrying out a detailed design study on the new route alignment, which will be able to link with the Thai-Lao Friendship Bridge No. 2, in Mukdahan, and the Thai-Lao Friendship Bridge No.3, in Nakhon Phanom.									
Subtotal (Transport Investment Projects in RIF 2022: Thailand)					21,962.1	21,970.1						
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: Thailand)						0.0						
Subtotal (Transport Investment Projects in RIF 2022: Thailand)					21,962.1	21,970.1						

Viet Nam

Investment Projects

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in the RIF 2022												
75	Central Mekong Delta Connectivity	Roads and bridges	This investment project will improve connectivity between Viet Nam and the rest of the Mekong Delta region, and provide better access to the southern coastal region from HCMC by building two cable-stayed bridges across the Mekong River, and building associated roads.	2013	860.0	860.0	ADB—410.0 Government of Australia—134.0 Korea Export-Import Bank—260.0 Government of Viet Nam—56.0	ADB—410.0 Government of Australia—160.0 Korea Export-Import Bank—232.84 Government of Viet Nam—56.0	Ongoing. Cao Lanh Bridge and Vam Cong – Cao Lanh connecting route were opened on 27 May 2018 Vam Cong Bridge Technical Issues: To be fully fixed by June 2019.	SEC	New bridges and roads connecting Viet Nam to Mekong Delta Area	Cuu Long Corporation for Investment, Development and Project Management of Transportation Infrastructure (Cuu Long CIPM)
76	GMS Ben Luc–Long Thanh Expressway (Stage 2)	Roads and bridges	The project will construct a 57.1 km expressway between Ben Luc and Long Thanh, south of Ho Chi Minh City (HCMC). This is a section of the GMS Southern Economic Corridor (SEC). This project will connect Ben Luc and Long Thanh in the southern region of Viet Nam. The expressway will be part of the Greater Mekong Subregion Southern Economic Corridor. It will improve transport efficiency and boost economic activities in the region.	2014	1,607.4	1,607.4	ADB—635.7 JICA—634.8 Government of Viet Nam—336.9		Ongoing. JICA part: J2 Package is completed; J1, J3 to be completed in June 2021 and July 2020. ADB part to be completed by December 2020. Overall physical progress is 65% against the planned 76% as of July 2019.	SEC	57.1 km expressway between Ben Luc and Long Thanh (connecting to the CaiMep – ThiVai Seaport)	Viet Nam Expressway Corporation (VEC)

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Investment projects in RIF 2022 continued—Viet Nam

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
77	GMS Kunming–Haiphong Transport Corridor–Noi Bai– Lao Cai Highway (additional financing)	Roads and bridges	The project is designed to provide (i) a 244 km grade- separated and access-controlled highway, including 10 interchanges with toll booth and 5 service areas, starting at Noi Bai, near Ha Noi, and Ending in Lao Cai on the border with the PRC in northwest Viet Nam; electric, communications, and tolling systems, and associated facilities, as well as the Vietnam Expressway Corporation’s highway operation and maintenance (O&M) equipment and vehicles; and capacity building for the Corporation in project- implementation management, corporate- financing management, highway O&M, and safeguard planning and implementation.	2014	182.0	182.0	ADB—147.0 Government of Viet Nam—35.0	ADB—147.0 Government of Viet Nam—35.0	Ongoing. Newly construct 2 more additional lanes of 25 km from Yen Bai to Lao Cai and upgrading of current safety system completed in 2017.	Viet Nam – Huyen Soc Son, Lao Cai, Noi Bai, Thanh Pho Lao Cai NSEC	25 km of additional 2 lanes expressway	Ministry of Transport Mr. Pham Thanh Binh phamthanhbinh71@gmail.com 80 Tran Hung Dao Hanoi, Viet Nam
78	Second Northern GMS Transport Network Improvement (Luang Prabang– Thanh Hoa)	Roads and bridges	This project aims to provide more efficient transport across the Lao PDR–Viet Nam border, as well as on the project road sections of the GMS northeastern corridor through the provinces of Thanh Hoa, in northern Viet Nam, and Houaphanh, in northeastern Lao PDR. It includes two components: (i) an upgrade to all-weather status of 196 km of Highway 217 in Viet Nam and of 143km of routes 6, 6A, and 6B in the Lao PDR; and (ii) improvements in the safety of the road sections.	2015	77.8	77.8	ADB—71.1 Government of Viet Nam—6.7	ADB—71.1 Government of Viet Nam—6.7	Ongoing. Started by September 2017 To be completed by 30 June 2020	Thanh Hoa, Viet Nam and Houaphanh, Lao PDR NSEC	1. Upgrade 45 km of National Highway No. 2017 from Cam Thuy to Ba Thuoc 2. Construction of new Ha Trung Flyover	Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com

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Investment projects in RIF 2022 continued—Viet Nam

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
79	GMS Ha Noi–Lang Son Expressway Project (HuuNghi-Chi Lang Section)	Roads and bridges	This project will construct a 156.6 km expressway between Ha Noi and HuuNghi, in Lang Son Province, on the border with the PRC's Guangxi Zhuang Autonomous Region. This project will connect Ha Noi and HuuNghi, Lang Son province, on the border with the PRC's Guangxi Zhuang Autonomous Region. HuuNghi – Chi Lang section is about 43km	2016	1,400.0	1,400.0	Private Investors —1,400.0	Private Investors —1,400.0	<p>Ongoing. The project has completed the technical design.</p> <p>Currently, the Prime Minister has directed the investment of this project in the form of BOT. Phasing into 2 BOT (Building – Operate – Transfer) Project:</p> <ul style="list-style-type: none"> - Ha Noi – Bac Giang: Completed in 2016 under BOT scheme. - Bac Giang – Lang Son (including Chi Lang – HuuNghi Border Gate): Under construction, expecting to be completed by Dec 2019. Change the Management Authority from MOT to Lang Son People Committee - Lang Son – HuuNghi Border Gate: Expecting to be completed by 2020. 	NSEC	<ol style="list-style-type: none"> 1. Ha Noi – Bac Giang: 45 km of expressway 2. Bac Giang – Lang Son: 64 km of expressway 3. Chi Lang – HuuNghi Border Gate: 43 km of expressway 	Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com

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Investment projects in RIF 2022 continued—Viet Nam

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
80	GMS Corridor Connectivity Enhancement Project (Northern Mountains Road Connectivity Enhancement Project)	Roads and bridges	The project will finance improvement of international and national transport connectivity of underdeveloped provinces of Vietnam by improving accessibility to GMS corridors. The project aims to expand the benefits of the GMS corridors to the northwestern provinces, where high poverty incidence is reported, by enhancing the road connectivity between the Noi Bai-Lao Cai Expressway and the provinces of Lao Cai, Lai Chau and Yen Bai through rehabilitation of National Highway (NH) 279 and NH32 and upgrading of Provincial Road (PR)175 to an NH.	2018	245.1	245.1	ADB—188.4 Government of Viet Nam—52.2 Australia—4.5	ADB—188.4 Government of Viet Nam—52.2 Australia—4.5	Ongoing. ADB loan financing approved on 11 December 2018.	Noi Bai-Lao Cai Expressway and the provinces of Lao Cai, Lai Chau and Yen Bai NSEC	National Highway (NH) 279 and NH32 and upgrading of Provincial Road (PR)175 to an NH rehabilitated	Ministry of Transport 80 Tran Hung Dao Hanoi, Viet Nam
81	Central Region Connectivity Enhancement Project (NR 14D Improvement Project)	Roads and bridges	This is a highway connecting the west of Quang Nam province, Ho Chi Minh road to Tien Sa port (Da Nang province); it is also the link between the three GMS countries – Cambodia, Laos and Viet Nam. National Highway 14D, submitted by Viet Nam for inclusion in Regional Investment Framework 2022, is covered by this proposed project.	2019	137.0	137.0	ADB – 116.32; Government of Viet Nam 20.65	TBD– 116.32; Government of Viet Nam 20.65	Proposed. Consultation on environment protection from international organizations (WWF, IUCN)	EWEC	National Highway No. 14D upgraded	Thang Long Project Management Unit
82	Ho Chi Minh City Third Ring Road (BenLuc-NH22)	Roads and bridges	The project aims to contribute to the socioeconomic development of the Southern Economic Region, exploiting the economic development of, and attracting investment and tourism to ,HCMC .It also aims to reduce the pressure on and congestion of Highway1.	2019	733.7	877.7	ADB—342.0 Cofinancing (TBD)—361.7 Government of Viet Nam—30.0	PPP: Private Investor: 436.1 ADB: 299.1 Australia: 6 Vietnam: 136.5	Proposed. The Technical Assistance on surveying and F/S for National Highway No. 22 – Binh Chuan and Ben Luc – National Highway No. 22.	SEC		Mr. Duong Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com

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Investment projects in RIF 2022 continued—Viet Nam

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
83	Ho Chi Minh City–Loc Ninh (Cambodia Border) Railway	Rail	The HCMC–Phnom Penh route (via Loc Ninh) is part of the Singapore–Kunming Rail Link (SKRL). The project will construct a new railway section of 128km from HCMC to Loc Ninh.	2020	900.0	900.0	TBD	TBD	Proposed. The feasibility study has been finalized in 2012 and Viet Nam has been seeking investors/ funding, calling foreign partners (whether governmental loan or private investment) to construct this missing link section. Despite that, we still hope to execute its construction in the period 2016–2025.	SEC	128 km railway from HCMC to LocNinh	Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com
84	Second GMS Southern Coastal Corridor (also known as SSCP2)	Roads and bridges	The project will (i) construct the remaining 84 km (between Ha Tien and Rach Gia) of National Route 80, or Quoc Lo 80(QL80), in Viet Nam (\$291.37 million); and (ii) upgrade the border-crossing facilities at HaTien (formerly XaXia) and streamline the procedures there—all via additional financing (\$ 18.81 million for border crossing upgrading and \$15.97 million for the Ha Tien Bridge). In line with one of the strategies of the GMS Strategic Framework (2012–2022), the project is a precondition for promoting broader economic corridor development. It will also	TBD	326.2	326.2	ADB—326.2	ADB—326.2	Proposed. The loan for technical design was cancelled.	SEC	1. 84 km of road bridge connecting Ha Tien and Rach Gia (National Highway No. 80) constructed 2. Upgrading Ha Tien border – crossing facilities	Cuu Long CIPM

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No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			facilitate Viet Nam's plans for implementing the Association of Southeast Asian Nations (ASEAN) single-window border-crossing mechanism by 2015. In addition, the project will seek to mainstream gender imbalances, prevent human trafficking and the spread of HIV/AIDS, mitigate and adapt to climate change impacts, strengthen institutional capacity, and facilitate regional cooperation between Cambodia and Viet Nam.									
85	GMS Road Corridors Maintenance	Roads and bridges	The project will undertake frequent and periodic maintenance for selected GMS corridor sections. It will have two components: (i) maintenance of road sections, and (ii) construction of five or six weigh stations on selected road sections. The project aims to undertake the GMS corridor's network maintenance and GMS road asset management.	TBD	120.0	120.0	TBD	TBD	Proposed.	TBD	TBD	Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com
86	Viet Nam: Lao Cai–Hekou (4.7km) PRC: Hekou–Lao Cai (03km)	Rail	The proposal is for standard gauge route between the PRC and Viet Nam rail systems, via GMS Rail Link 9: Kunming–Ha Noi–HCMC–Phnom Penh–Bangkok (SKRL main line). ADB will only finance it if a standard gauge link is provided as the connection. A feasibility study was conducted, funded by Viet Nam. There remain bilateral issues regarding the route alignment and the location where the line would cross the border.	TBD	33.6	33.6	ADB	ADB	Proposed.	NSEC		Mr Duong Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com

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Investment projects in RIF 2022 continued—Viet Nam

No.	Project Title	Subsector	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/ Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
*Not Applicable	Vientiane–Thakhek–Mu Gia Railway Project (450 km) Mu Gia–VungAng (F/S completion expected in 2017) 119 km	Rail	The project covers a portion of the spur line of the SKRL. This spur line will connect the Thai railway network to the Vietnamese railway network. The Republic of Korea has given assistance with a pre-feasibility study.	TBD	*Cost estimate is listed under Lao PDR to avoid double counting	*Cost estimate is listed under Lao PDR to avoid double counting	TBD	TBD	Proposed. Viet Nam has been seeking investors/funding, calling foreign partners (whether governmental loan or private investment) to construct this missing link section.	NSEC	Expected Outputs listed under Lao PDR to avoid duplication	
Subtotal (Transport Investment Projects in RIF 2022: Viet Nam)					6,622.8	6,766.8						
Projects proposed to be added in RIF 2022												
87	Construction Project of National Highway 15D, Quang Tri province	Road	To construct National Highway 15D from My Thuy seaport to La Lay international border gate with Laos, 92km			118.4		ADB—94.7 Viet Nam—23.7	Proposed.			
Subtotal (Transport Investment Projects proposed to be added in RIF 2022: Viet Nam)					118.4							
Subtotal (Transport Investment Projects in RIF 2022: Viet Nam)					6,622.8	6,885.2						
Total (Transport Investment Projects in RIF 2022: Viet Nam)					70,311.6	77,713.7						

All Countries

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
1	GMS Corridor Enhancement Project (formerly Project Preparatory Technical Assistance for National Highway 14D Improvement)	Viet Nam	The technical assistance (TA) will prepare a project to improve the national and international transport connectivity of underdeveloped provinces in Viet Nam by improving access to GMS corridors. The project comprises (i) improving National Highway 14D (NH14D) in Quang Nam Province, and three National Highways (NH32, N279 and upgraded PR175) in Yen Bai Province, Lai Chau Province and Lao Cai Province; and (ii) supporting the Department of Road Viet Nam (DRVN) in road asset management.	2016	1.8	1.8	ADB—1.8	ADB—1.8	Completed.	NSEC	Project to improve international and national transport connectivity of underdeveloped provinces of Vietnam prepared	Mr. Le Duc Trung Official, ICD, MOT ductrung1812@gmail.com
2	Proposed Hoa Lac–Hoa Binh City Expressway Public–Private Partnership Feasibility Study	Viet Nam	The Lang–Hoa Lac–Hoa Binh Expressway is one of the seven expressways connecting to Hanoi. The Lang–Hoa Lac section has been in operation since October 2010. The Hoa Lac–Hoa Binh section, 33.3 km in length, is in the preparatory stage.	2018	1.0	1.0	Private Sector—1.0	Private Sector—1.0	Completed.	NSEC	Feasibility Study prepared	Mr. Le Duc Trung Official, ICD, MOT ductrung1812@gmail.com
3	Study on Dry Port Development Plan along International Railway Lines Connecting Thailand with Cambodia, the Lao PDR, and Myanmar	Cambodia, Lao PDR, Myanmar, Thailand	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 Nong Khai–Thanaleng–Vientiane line, to connect with the Lao PDR; the Aranyaprathet–Klong Luk–Poipet line, to connect with Cambodia; and the Kanchanaburi–Dawei line, to connect with Myanmar.	2018	0.5	0.5	Government of Thailand—0.5	Government of Thailand—0.5	Completed. The study is completed in December 2018.	NSEC EWEC SEC		State Railway of Thailand Email :

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			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.									
4	Transport Sector Reform and Modernization (additional financing)	Myanmar	This TA project will support the next phase of ADB's participation in the development of Myanmar's road transport sector.	2017	2.0	2.0	ADB—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.			ADB
5	Greater Mekong Subregion East-West Economic Corridor Highway Development Project (formerly GMS EWEC Road Corridor Improvement II)	Myanmar	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	2.0	ADB—2.0	ADB—2.0	Ongoing. It is planning to perform traffic survey, topography survey, geotechnical investigation, environmental testing, inventory of loss & socio-economic survey, poverty & social assessment data collection survey, biodiversity survey and give awareness to the people with local authorities on the new alignment.	Bago Region Mon and Kayin State EWEC	70 km new road	ADB

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
6	GMS Regional Transport Corridor Improvement I	Myanmar	The technical assistance project will prepare a project to upgrade sections of Myanmar's GMS North-South and East-West transport corridors.	2019	1.5	1.5	ADB—1.5	ADB—1.5	Proposed			ADB
7	Technical assistance to complete the draft Framework Agreement for Cross-Border Railway Transport Connectivity in the GMS	All GMS countries	The draft Framework Agreement currently only draft the Main Text, which has many references to the Protocols, the Annexes (from Article 6 to Article 30). According to ADB Consultants, these documents will be developed later. To ensure the consistency and feasibility of the Framework Agreement, recommendations ADB should continue to support research and develop draft the Protocols and the Annexes.	2020	TBD	TBD	TBD	TBD	Proposed by MOT of Viet Nam			Ministry of Transport of Viet Nam
8	GMS Road Corridors Maintenance	All GMS Countries	The TA will provide institutional and operational strengthening of GMS road maintenance and road asset maintenance	TBD	TBD	TBD	Seeking financing	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.			Ministry of Transport, Viet Nam
9	Strategic Study on the Development and Management of the GMS Motorway Network System	All GMS countries	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.	TBD	TBD	TBD	Seeking financing	Seeking financing	Proposed			

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			transport logistics costs. The strategic study will look at all the GMS corridors, and consider how they mesh with the GMS motorway network system									
10	Knowledge Transfer between Thailand and the Other GMS Member Countries on Highway and Bridge Standards and Specifications, including Transport Facilitation Facilities	All GMS countries	The objective of this TA is to enhance knowledge and experience sharing in the field of road engineering, and to brainstorm better engineering ideas for sustainable road 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.	TBD	0.4	0.4	Seeking financing	Seeking financing	Proposed			
11	GMS Transport Database Capacity Development	All GMS countries	<p>This is a project proposed by a transport and logistics assessment study conducted under the process for preparing the GMS Regional Investment Framework 2022.</p> <p>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</p>	TBD	TBD	TBD	Seeking financing	Seeking financing	Proposed			

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			database capacity-building assistance targeted at Cambodia, the Lao PDR, and Myanmar, but incorporating data from the PRC, Thailand, and Viet Nam.									
12	Feasibility Study on Upgrading of Mawlamyine-Dawei – Htiikee Rail Link (452.58 km)	Myanmar	<p>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).</p> <p>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.</p>	TBD	TBD	TBD	TBD	TBD	Proposed	Mon State Tanintharyi Region SEC	Upgraded Rail Link and New spur line	Deputy General Manager Planning & Administration Department, Myanmar Railways +95 67 77084 dgm.planning_mr@gmail.com
13	Various TA projects proposed by the Lao PDR Department of Waterways and Ministry of Public Works and Transport	All GMS countries	<p>The TA projects are as follows:</p> <p>(i) regulatory TA to standardize the vessel and waterway classifications, set up a vessel inspection system, develop a short- and long- term fleet policy, and build a search-and-rescue center (timeline: 2020–2030, no cost estimate yet);</p> <p>(ii) feasibility studies for a multimodal transportation system and for an import-</p>	TBD	TBD	TBD	PRC Republic of Korea	PRC Republic of Korea	Proposed			

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>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);</p> <p>(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).</p>									
14	Road Safety for Highway Development in the Greater Mekong Subregion East-West Economic Corridor	Myanmar	This is a Transactional TA project with expected outcome of a more efficient and safer movement of goods and people between Bago and Kyaikto along the GMS EWEC.	TBD	1.1	1.1	ADB (Trust Fund for Road Safety for Highway Development in GMS EWEC)—1.0 Government of Myanmar—0.06 (non-cash)	ADB (Trust Fund for Road Safety for Highway Development in GMS EWEC)—1.0 Government of Myanmar—0.06 (non-cash)	Proposed	Bago–Kyaikto section of EWEC	<ol style="list-style-type: none"> Road safety approach for existing Bago-Kyaikto road section established; Government’s capacity to collect and analyze road safety data improved; Police capacity for traffic 	Ministry of Construction Department of Highways Office Building No. 11 Naypyitaw, Myanmar
Subtotal (Transport TA Projects in the RIF 2022)					10.3	10.3						

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Technical assistance projects in RIF 2022 continued—All Countries

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Proposed to be added in RIF 2022												
15	Feasibility Study for Mae Sot –Myawaddy-Hpa-an- Thaton Rail line.	Myanmar Thailand	<p>The proposed Technical Assistance project is to connect with Thailand. It is situated in Kayin and Mon State, Myanmar.</p> <p>Rationale/Justification: Feasibility Study for the missing link of Hpa-an – Myawaddy- Mae Sot as a spur line of Singapore-Kunming Rail Link (SKRL) with the Technical Assistance by development partner instead of Dawei-Htiki-Ban Phunam Ran (Thai) was proposed to input ACMECS Master Plan in 2019.</p> <p>Besides, feasibility Study for Myawaddy-Hpa- an – Thaton new rail line construction project with the Technical Assistance was proposed to input NEDA 2019-2022.</p>	TBD	TBD	TBD	TBD	TBD	Proposed.	Kayin State, Mon State, Myanmar. EWEC	To support a spur line of Singapore-Kunming Rail Line (SKRL) and estimate the cost of the project implementation.	NTFC Secretariat Office +95 67 3411603 motc. landtransport@gmail.com
16	TA for Chau Doc – Soc Trang – Can Tho expressway Project	Viet Nam	MOT proposes ADB provide TA to implement Pre FS and FS of this project	TBD	TBD	TBD	TBD	TBD	Proposed by Viet Nam			
Subtotal (Transport TA Projects proposed to be added in the RIF 2022)					TBD							
Subtotal (Transport TA Projects)					10.3	10.3						
Total (Transport Investment and TA Projects)					70,321.9	77,724.0						

Energy

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Nam Ngiep 1 (NN1) Hydropower Project	Lao PDR	The project involves the construction and operation of a 272 MW hydropower generation facility on a build-operate-transfer (BOT) arrangement at the Nam Ngiep River in the province of Bolikhamxay and Xaysomboun, Lao PDR.	2014	976.7	976.7	ADB—215.7 JBIC—197.0 Private Sector—564.0	ADB—215.7, JBIC—197.0, Private Sector—564.0 [NNP1 shareholders: KPIC Netherlands B.V., EGAT International, Lao Holding State Enterprise—226; Thai banks—228]	Completed. NN1 started generating electricity for export to Thailand in early September 2019, becoming the latest fully operational Independent Power Producer in the country. The project's main power house has an installed capacity of 272 MW, which is sold to the Electricity Generating Authority of Thailand via a 230 kilovolt transmission line to the Nabong Substation. The output from the reregulation power station (18MW or about 6.2% of total project output) has been online since March 2019 and is being sold to Electricite du Laos.	Bolikhamxay and Xaysomboun, Lao PDR NSEC	See description	Team Head: Suhail Khan Principal Investment Specialist PSPM-PSOD, ADB Email: sykhan@adb.org Analyst: Broderick Garcia Sr. Investment Officer PSPM-PSOD, ADB Email: bgarcia@adb.org
2	Lao PDR–Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR, Thailand	The project aims to construct a 500kV line from Udon Thani (Thailand) to Nabong (Lao PDR) to transfer power from three hydropower projects in the Central-1 area of the Lao PDR to Thailand. The hydropower projects are Nam Ngum 2, Nam Theun 1, and Nam Ngiep 1, which have a total capacity of over 1,500MW, largely for export to Thailand.	2014	106.0	106.0	Nam Ngum 2 Power Company—106.0	Nam Ngum 2 Power Company—106.0	Ongoing	Nabong, Lao PDR Udon Thani, Thailand	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansompheng@yahoo.com

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
												Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel.+662 436 3532 Fax.+662 4363 593 Email: sawapop.t@egat.co.th
3	Transmission Interconnection Project from Lao PDR (Na Bong) to Thailand (Udon Thani 3)	Lao PDR, Thailand	The project is upgrading an existing 230 kV transmission line, designed for 500 kV transmission from the Lao PDR (Na Bong) to Thailand (Udon Thani 3. When completed, the line will be 107 km in length and have 1,800 MW peak capacity.	2014	60.0	60.0	TBD—60.0	TBD—60.0	Ongoing	Na Bong, Lao PDR Udon Thani, Thailand NSEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel.+662 436 3532 Fax.+662 436 3593 Email: sawapop.t@egat.co.th

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
4	Continued Projects in Rural Electrification and Off-Grid Power Development in Northern Part of Lao PDR	Lao PDR	The project involves grid extension based on sound selection principles and the implementation of off-grid projects where grid extensions are not feasible. The new Greater Mekong Subregion (GMS) strategy calls for enhancing energy access, particularly to poor and remote areas, through the promotion of best practices in the GMS. Costs and scheduling are aligned with the completion report for the Lao PDR: Northern Area Rural Power Distribution Project, with some increases reflecting inflation. That project installed 268 km of a 115 kV line, along with distribution facilities, which connected over 30,000 households. (The scope of this project may have overlapped with that of the Northern Cross-Border Power Trade and Distribution Project.)	2019	50.0	50.0	TBD	TBD	Proposed	North and central part of Lao PDR: Phongsaly, Huaphanh and Xieng Khuang provinces NSEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
5	Extension of Energy Access in Myanmar from Nodes in Thailand and in the People's Republic of China (PRC)	Myanmar	This project involves a grid extension from Myanmar's borders with the PRC and Thailand using generation plants in those two countries, based on the regional experience in grid extension in Cambodia, the Lao PDR, and Viet Nam. Ideally, such a project would build on the successful build-operate-transfer (BOT) model of the transmission project in Cambodia. The costs will depend on the number of distribution facilities and household connections in the chosen areas. It is likely that there will be few or no distribution facilities, in which case the costs will be much higher, closer to those for a conventional renewable energy project. The schedule will allow for the negotiating process under the BOT model.	2019	70.0	1,797.4	TBD	TBD	Proposed	(i) Muse, Hopone Township, Shan State, Loikaw Township, Kayah State, Taungoo, Kyayauktakar, Naunglaybin, Dikeoo and Bago Townships, Bago Region and throughout the route of transmission line.	The transmission line has an expected capacity of around 3300 MW which can transmit back to PRC and Thailand once new power plants within the country are completed. The transmission capacity of 3300 MW can electrify one million households by connecting this transmission line to the grid.	U Myint Oo, Director, Road Design Section Department of Highways Ministry of Construction Mobile: +95 9 203 9482 Email: myintoopakokku@gmail.com

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>Estimated cost breakdown: \$10.0 million for the connection to a local isolated grid; and \$60.0 million if the distribution and connection are to be carried out.</p> <p>This project covers 2 parts: (i) 500kV Muse-Mineyal-Hopone-Taungoo-Phayargyi Transmission Line (616 miles (PRC-Myanmar), Muse(Back to Back)Station, 500kV Mineyal, Hopone and Taungoo Substation and 500kV Phayargyi Substation Extension (estimated costL \$1,788.02 million).</p> <p>(ii) 230kV Maesot-Myawaddy Transmission Line (18) miles and 230kV Myawaddy Substation Extension, 230kV Maesot Substation (estimated cost: \$9.4 million).</p>						(ii) Maesot, Thailand and Myawaddy Township, Kayin State.	<p>Activities are: (i) feasibility study, (ii) agreement between two countries; (iii) preliminary survey for the study on transmission line route; (iv) tendering and procurement, (iv) EPC contacting, (v) detailed survey for tower plotting, (vi) detailed design for line material and substation, (vii) supply of material and construction, (viii) testing and commissioning, and (ix) processing of consulting services.</p> <p>Expected Outputs are as follows: (i) strengthening the national grid on the eastern part of country; (ii) promoting inner connectivity with PRC and Thailand; (iii) delivering power from green energy resources (mainly hydropower) to load concentration area.</p>		

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											The project is expected to fulfill the country's electricity requirement and energy security.	
6	Transmission Interconnection Project from Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3)	Lao PDR, Thailand	The project will construct a 500 kV transmission line that will initially be energized at 230 kV from the Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3). When completed, the line will be 150 km in length and have 1,400 MW peak capacity.	2019	90.0	90.0	ADB—15.0 Cofinancing—75.0	TBD—15.0 Cofinancing—75.0	Proposed	Ban Lak, Lao PDR NSEC Ubon Ratchathani, Thailand SEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel.+662 436 3532 Fax.+662 436 3593 Email: sawapop.t@egat.co.th
7	Rural Power Distribution and Efficiency Improvement Project (formerly, Northern-Cross Border Trade and Distribution)	Lao PDR	This project will expand the power distribution network in northern Lao PDR near border-crossing points. Components of the project include, among others: (i) a transmission interconnection from the Lao PDR (Luang Namtha) to Myanmar (Shan State, with a possible extension), and (ii) a transmission interconnection from the Lao PDR (Ton Pheung) to Thailand (Mae Chan).	2020 Standby	135.0	135.0	ADB—80.0 Government of Lao PDR—5.0 Indicative cofinancing: World Bank and AIIB—50.0	TBD	Proposed	Luang Namtha, Lao PDR Shan State, Myanmar Ton Pheun, Lao PDR Mae Chan, Thailand NSEC	The project will help address Lao PDR's need to: (i) expand access to low-cost, reliable power in rural areas and (ii) develop priority power interconnections between Lao PDR	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
										and its neighbors to increase power trade. The project will also support the national electric utility to (i) expand distribution lines and provide off-grid alternatives in the select provinces.		
8	500 kV Line from Mawlamyine to the Main Grid	Myanmar	This will connect the isolated grid at Mawlamyine to the main grid, thereby bringing the 500 kV Myanmar system closer to the Thai grid for future interconnection. This will result in lower costs and improved reliability of the power supply in the Mawlamyine area, which will be the western terminus of the GMS East-West Economic Corridor (EWEC). The costs are estimated based on 360 km of a single-circuit 500 kV line at \$1.5 million/km and two 500 kV substations at \$50 million each. (Tentative routing: Mawlamyine-Thaton-Bago)	2020	640.0	640.0	TBD	TBD	Proposed	Mawlamyine, Myanmar EWEC	See description	Director (Power Development Planning) DEPP Pdp.depp.2016@gmail.com 067-3411293

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
9	Lao PDR– Viet Nam Power Transmission Interconnection II	Lao PDR, Viet Nam	This project will (i) construct a 59-kilometer (km), 500-kilovolt (kV) transmission line and a 230 kV/500 kV substation in Hatxan, Lao PDR; and (ii) will construct a 94 km, 500 kV transmission line and expand the existing 220 kV/500 kV substation in Pleiku, Viet Nam. The project will enable the transmission of 3,157 gigawatt-hours/ year of electricity, to be produced by eight small hydropower plants (with a total capacity of 1,013 megawatts [MW]) in southern Lao PDR, to be developed by independent power producers.	TBD	120.0	120.0	World Bank—40.0 Cofinancing (TBD)—80.0	World Bank—40.0 Cofinancing (TBD)—80.0	Proposed	Hatxan, Lao PDR Pleiku, Viet Nam SEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansompheng@yahoo.com Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com
10	Demonstration of Second Generation Biofuel Technologies and Associated Biomass Value Chains	All GMS countries	This project will build pilot plants under a public– private partnership (PPP) that will aim to meet financial targets, successfully demonstrate feasible technologies, and create value chains. Upgrading biofuel technology will reduce conflicts over food security and will increase rural incomes through biomass value chains. The schedule will take into account the need for a careful consideration of technological issues and for the selection of private partners. Estimated cost is \$13.3 million per GMS member country.	TBD	80.0	80.0	TBD	TBD	Proposed		See description	

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
11	Transmission Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha) Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha)	Lao PDR, Thailand	The project will construct a 500 kV AC transmission line from the Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha). When completed, it will be 120 km in length and have 800 MW peak capacity. This project is currently under consideration and subject to a power purchase agreement (PPA) approval by both sides.	TBD	TBD	TBD	TBD	TBD	Proposed	Pak Beng or Pak Nguyen, Lao PDR Tha Wang Pha, Thailand NSEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel.+662 436 3532 Fax.+662 436 3593 Email: sawapop.t@egat.co.th
Subtotal (Energy Investment Projects in RIF 2022)					2,327.7	4,055.1						
Projects proposed to be added in RIF 2022												
12	230kV Lao PDR-Myanmar Power Interconnection	Lao PDR, Myanmar	By implementing this project, power exchanging can be made based on the seasonal demand of both countries. The 300MW of Myanmar-Lao PDR interconnection project can electrify 600,000 households for new connection. KengLatt and Tachi leik Townships will also electrified.	2020		180.9		ODA Loan	Proposed by Myanmar. Pre-feasibility study being supported by ADB ongoing as of September 2019.	KengLatt, Tachileik, Keng Tong, Nam Sam, Taunggyi and Meikhitla townships and Throughout the route of transmission line from Lao PDR to Myanmar		Director (Power Development Planning) DEPP pdp.depp.2016@gmail.com 067-3411293

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Investment projects proposed to be added in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
13	500kV Muse-Mineyal-Hopone-Phayargyi Transmisson Line (616) miles and related substations	Myanmar	This will bring the 500kV Myanmar System closer to the China Grid for future interconnection. This will be north-eastern terminus of GMS East-West Economic corridor (EWEC).	2020		1,788.0		TBD	Proposed by Myanmar	Muse, Hopong Township, Shan state, Loikaw Township, Kayah state, Taungoo, Kyayauktakar, Naunglaybin, Dikeoo and Bago Townships, Bago Region, and throughout the route of transmission line		Director (Power Development Planning) DEPP pdp.depp.2016@gmail.com 067-3411293
14	230 kV Mae Sot-Myawaddy Transmission Line	Myanmar	By implementing this project, power exchanging can be made based on the seasonal demand of both countries. The 300 MW of Myanmar-Thai interconnection project can electrify 600,000 households for new connection.	2020		TBD		TBD	Proposed by Myanmar	Myawaddy Township, Kayin State and throughout the route of transmission line from Thai to Myanmar		Director (Power Development Planning) DEPP pdp.depp.2016@gmail.com 067-3411293
Subtotal (Energy Investment Projects, proposed to be added in RIF 2022)						1,968.9						
Subtotal (Energy Investment Projects)					2,327.7	6,024.0						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
1	Harmonizing GMS Power Systems to Facilitate Regional Power Trade (formerly Support to RPTCC in the Completion of Performance Standards, Grid Codes, Market Rules, and Subregional Transmission Expansion Plan)	All GMS countries	The technical assistance (TA) supports the development of a clear basis for regional market rules that would comprise agreed rules and indicative planning of interconnections. It will result in a more functional regional market with genuine exchanges of electricity, leading to an improved reliability and quality of power supply and lower costs. A supplementary TA project was approved in 2017, the outcome of which will be a set of GMS performance standards and grid codes, and an enhanced regulatory framework. Additional output, among others, include feasibility studies for four new interconnection projects.	2014	3.0	3.0	ADB—2.5 PRC Trust Fund—0.5	ADB—2.5 PRC Trust Fund—0.5	<p>Ongoing</p> <p>Performance Standards: Completed under ADB TA and adopted by the countries as a reference document. Lao PDR is using the standards</p> <p>GMS Grid Codes: Draft completed under ADB TA and provided to GMS countries for enforcement.</p> <p>Subregional GMS Transmission Expansion Plan: Under ADB TA, power system studies are ongoing. Draft plan to be completed by June 2020</p>		Regional Power Coordinating Center (RPCC) established and operations commenced through continued support to Regional Power Trade Coordination Committee (RPTCC).	Mr. Duy-Thanh Bui, SERD, SEEN, ADB Email: buiduythanh@adb.org
2	Integrated Resource Planning with Strategic Environmental Assessment for Sustainable Power Sector Development in the Greater Mekong Subregion	All GMS Countries	Demand for energy across the Greater Mekong Subregion (GMS) has risen strongly, often at a faster rate pace than economic growth. It is anticipated that energy demand will be tripled over the next 15 to 20 years. In particular, the demand for electricity is growing rapidly, which will require a major expansion of the power system. According to the current power development plans (PDPs) of the respective GMS countries, the total installed capacity of the region is projected to be almost doubled by 2025, mostly driven by large hydro and coal-	2015	2.2	2.2	AFD—1.15 Regional Cooperation and Integration Fund—0.5 Cooperation Fund for Project Preparation in the Greater Mekong Subregion and in Other Specific Asian Countries—0.5	AFD—1.15 Regional Cooperation and Integration Fund—0.5 Cooperation Fund for Project Preparation in the Greater Mekong Subregion and in Other Specific Asian	<p>Ongoing.</p> <p>The consulting firm was engaged in May 2016 and has completed (i) inception report; (ii) six GMS Countries Gap Analysis Missions and Report; (iii) one regional workshop and three country workshops in Lao People's Democratic</p>	Expected/Planned Measurable Outputs:	1. Viet Nam's IRP and SEA capacity enhanced, 2. Awareness among GMS countries increased,	Hyunjung Lee, Senior Energy Economist, ADB Email: HJLee@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>fired power additions. Along with these developments, environmental and social pressures are expected to be heightened, adding concerns related to climate change. One way to address this concern is to improve the PDP planning process in a way to consider environmental and social impacts at the more upstream stage through strategic environmental assessment (SEA) and to examine all supply-side options and demand-side options using integrated resource planning (IRP). In this regard, this TA is designed to (i) enhance the GMS countries' capacity in applying IRP with SEA in their PDPs; (ii) improve regulations, policies, programs and/or targets for RE and EE as necessary and as validated through the IRP; and (iii) support the cross-border interconnections as necessary and as validated through the IRP. The RETA will particularly focus on Viet Nam as the country has greater potential for mitigating climate change impacts. The RETA impact is a more economically, environmentally, and socially sustainable power sector developed for greater mitigation of climate change impacts in the GMS. The TA outcome is enhanced capacity of Viet Nam and awareness of other GMS countries in applying IRP with SEA in developing its PDP.</p>						<p>Republic (PDR), Myanmar, and Thailand; (iv) Knowledge Product on Integrating SEA into Power Development Planning in Viet Nam published; (v) two twinning workshops in PRC on Renewable Energy Integration; and in Viet Nam on SEA and (vi) draft report on Strengthening the Policy Framework for Power Sector Planning with Renewable Energy, Energy Efficiency and Climate Change Mitigation Targets in Viet Nam. In Dec 2018, ADB extended the TA by 2 years with \$1.05 million additional financing in support for renewable energy and energy efficiency development in the GMS and conducted consultation missions in April and May 2019.</p>	<p>and 3. Knowledge Products shared.</p>		

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	The project will examine new potential cross-border power-transmission projects.	2017	1.0	1.0	ADB—1.0	ADB—1.0	Ongoing	One or more of high-voltage cross border connections between: Ban Tonpheng (Lao) to Mea Chan (THA) Ban Tonpheng (Lao) to Shan State (MYA) Meung Long (Lao) to Shan State (MYA)	Feasibility study on transmission and distribution projects prepared. Least-cost electrification analysis prepared. Front-end engineering design and bidding documents prepared.	Daniel Martin, Energy Specialist, SEEN dmartin@adb.org
4	Development of GMS Coordination Center for Regional Power Trade	All GMS countries	The project will help set up the Regional Power Coordination Center (RPCC) and build the capacity of national and subregional bodies. These bodies will work with the RPCC in implementing and overseeing cross- border power exchanges; coordinating regional power planning; and developing transmission facilities of regional importance through (i) technical and equipment support and staffing, (ii) staff training, and (iii) support for specific studies (e.g., on tariff structures, operational standards, etc.) and activities (e.g., power planning, database maintenance, etc.).	TBD	3.0	3.0	TBD	TBD	Proposed			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	Scoping Study on the Future of the Trans-ASEAN Gas Pipeline (TAGP)	All GMS countries	<p>This project is specified in ASEAN Master Plan on Connectivity and aims to contribute to ASEAN's energy security. The study will lead to an agreed concept for the deployment of the TAGP in the future, with the critical investments identified.</p> <p>This project needs strong cooperation with the ASEAN Council on Petroleum (ASCOPE). It should be steered by a national committee of experts and executed by a small part-time team of national experts, but also include funding for short-term studies on strategic issues (e.g., shale gas and coal bed methane prospects, future liquefied natural gas markets, carbon capture and storage, storage options, the role of gas as a backup for renewables, and future gas demand). Four meetings over 2 years will be sufficient. The budget must cover the participation of ASCOPE experts.</p>	TBD	1.0	1.0	TBD	TBD	Proposed			
Subtotal (Energy TAs in RIF 2022)						16.2	10.2					
Project proposed to be added in RIF 2022												
6	Supporting GMS Regional Sustainable Power Sector Development	All GMS Countries	<p>The proposed TA aims to improve energy security and mitigate climate change in the GMS through strengthened regional power cooperation, with an increased use of clean energies, such as renewable energies (RE) and increased energy efficiency and conservation. The TA will support knowledge sharing in GMS sustainable power development by supporting the knowledge centering on (i) energy efficiency (EE) and conservation, (ii) renewable technology deployment and strategic planning; and (iii) innovative technologies for power interconnection.</p>	TBD	TBD	TBD	TBD	TBD	Regional technical assistance (TA) project combining TA projects #5, 6, and 8.		On EE aspect, the proposed TA will entail preparing national energy efficiency action plans for those countries that need learning from other countries experiences, with stronger and better-targeted actions to promote energy efficiency. It will be executed by a	Mr. Duy-Thanh Bui, SERD, SEEN, ADB Email: buiduythanh@adb.org

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Technical assistance projects proposed to be added in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											<p>of high-level national experts that reviews progress in energy efficiency across the subregion; conducts benchmarking; proposes aggressive targets, stronger policies, and subregional convergence; and, where feasible, identifies sources of financial support (e.g., Clean Development Mechanism and post-Kyoto mechanisms).</p> <p>On RE aspect, it will support preparation of policy manuals based on GMS-appropriate practices in renewable energy and cleaner fuel promotion, continuing knowledge sharing and training, and laying the groundwork for investment projects in renewable energy.</p> <p>On climate mitigation aspect, it will assist the GMS countries in adopting specific climate-mitigation</p>	

Continued on next page

Technical assistance projects proposed to be added in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											measures for the power interconnection projects; establish measurable targets and action plans for reducing greenhouse gas emissions resulting from power sector development; adopt measures for renewable-energy and energy-efficiency improvements over time that can be monitored against a well-defined baseline; and to clearly define the public policy interventions under the action plans. These activities will all contribute to sustainable power sector development and climate change mitigation.	
Subtotal (Energy Technical Assistance Project proposed to be added in RIF 2022)						TBD						
Subtotal (Energy TA Projects)						16.2	10.2					
Total (Energy Investment and TA Projects)						2,343.9	6,034.2					

Agriculture

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																				
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)																								
Projects in RIF 2022																																
1	Greater Mekong Subregion (GMS) Flood and Drought Risk Management and Mitigation Project	Lao PDR, Viet Nam	<p>The Asian Development Bank (ADB) is helping the Lao PDR and Viet Nam reduce economic losses resulting from floods and droughts. The project will combine upgrades in water-management infrastructure with community-based disaster risk management and enhanced regional forecasting in order to improve disaster preparedness in the GMS.</p> <p>The breakdown of the estimated costs in terms of millions of dollars is as follows:</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Lao PDR</th> <th>Viet Nam</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>37.1</td> <td>64.4</td> <td>101.5</td> </tr> <tr> <td>ADB</td> <td>36.5</td> <td>45.0</td> <td>81.5</td> </tr> <tr> <td>Government</td> <td>0.6</td> <td>13.5</td> <td>14.1</td> </tr> <tr> <td>Cofinancing</td> <td>0.0</td> <td>5.9</td> <td>5.9</td> </tr> </tbody> </table>	Country	Lao PDR	Viet Nam	Total	Total	37.1	64.4	101.5	ADB	36.5	45.0	81.5	Government	0.6	13.5	14.1	Cofinancing	0.0	5.9	5.9	2013	101.5	101.5	<p>ADB—81.5 Governments of the Lao PDR and Viet Nam—14.1 Cofinancing (Government of Australia)—5.9</p>	<p>ADB—81.5 Governments of the Lao PDR and Viet Nam—14.1 Cofinancing (Government of Australia)—5.9</p>	<p>Ongoing. Activities on track. Expected closing date: Sept 2019.</p> <p>Viet Nam: On track; 3 civil contracts were completed. While there were delays in the remaining civil works contracts due to delay in 2019 ODA budget. Project will be completed as scheduled. Expected closing date is 30 September 2019.</p> <p>Lao PDR: Project is rated on track, with cumulative physical progress as of 31 July 2019 is about 99.3%. Safeguards compliance is also on track. All contract packages have been awarded and all works are completed.</p>	<p>Viet Nam: SEC</p> <p>Lao PDR: Nationwide</p>	<ol style="list-style-type: none"> Enhanced regional data, information, and knowledge base for the management of floods and droughts Upgraded water management infrastructure Enhanced capacity for CBDRM Effective project implementation 	<p>Viet Nam: Mr. Pham Dinh Van, Director General, Central Project Office Directorate of Water Resources, MARD, Viet Nam Email: van_cpo@yahoo.com.vn Tel: +84 -38253921</p> <p>Lao PDR: Ministry of Agriculture and Forestry-Irrigation Dep DIDMONPD@LAOTEL.COM DIDMP, Irrigation Department Ministry of Agriculture and Forestry P.O.Box 5192, Chao Anou Road</p> <p>Vanthong Inthavong Lao Resident Mission, ADB Email: vinthavong@adb.org Do Nhat Hoang Viet Nam Resident Mission Email: dohoang@adb.org</p> <p>David Salter SERD/SEER Email: dsalter@adb.org</p>
Country	Lao PDR	Viet Nam	Total																													
Total	37.1	64.4	101.5																													
ADB	36.5	45.0	81.5																													
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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									Project closing date be extended for 12 months, from 30 September 2019 – 30 September 2020, to enable ADB and Government to process with additional financing, which TRTA consultant is being mobilized.			
2	Basic Infrastructure for Inclusive Growth in the Northeastern Provinces Sector Project (BIIG 1)	Viet Nam	<p>BIIG 1, the proposed project, will (i) rehabilitate and upgrade about 265 kilometers (km) of roads in the four northeastern provinces; (ii) install 10 rural domestic water-supply schemes; (iii) provide infrastructure support for agricultural and rural value chains in Lang Son; and (iv) strengthen provincial-infrastructure-asset management.</p> <p>The project is aligned with ADB's long-standing support for the GMS Economic Cooperation Program Strategic Framework 2012–2022, which prioritizes local and regional economic</p>	2017	197.2	197.2	ADB—150.0 Government of Viet Nam—37.2	ADB—150.0 Government of Viet Nam—37.2	<p>Ongoing. Loan agreement was signed in April 2018, became effective on 5 October 2018. Loan implementation consultant has been mobilized; Project management units have been set up. Contract award and disbursement is expected to commence in 2020.</p>	Bac Kan, Cao Bang, Ha Giang, Lang Son NSEC	<ol style="list-style-type: none"> Road network connectivity improved Rural water supply improved Agriculture and rural value chain infrastructure in Lang Son province improved Decentralized public asset management processes established 	<p>Mr. Ly Thai Hai Chairman Bac Can PPC vpubnd@backan.gov.vn Fax: +84-02093871751</p> <p>Mr. Nguyen Van Son, Chairman of Ha Giang province Fax: +84-02193866204</p> <p>Mr. Pham Ngoc Thuong, Chairman of Lang Son province vanphong@langson.gov.vn Fax: +84-02053814302</p> <p>Mr. Hoang Xuan Anh, Chairman, Cao Bang Province Email: vpubndtinh@caobang.gov.vn Fax: +84-0263852866</p>

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			development through multi-sector investments that require strong cross-sector linkages and integration, particularly with special economic zones and border areas.									
3	Basic Infrastructure for Inclusive Growth in the North Central Provinces Sector Project (BIIG 2)	Viet Nam	<p>The proposed project will accelerate the socioeconomic development of the four north central provinces. It will (i) rehabilitate and upgrade district and provincial roads in the north central provinces; (ii) support productive and business infrastructure, including water supply networks, sea and river protection, and drainage works with associated river transport infrastructure, and support flood and irrigation command areas; and (iii) establish decentralized public-asset-management processes, and build road, water-supply, and irrigation infrastructure.</p> <p>The project is aligned with ADB's long-standing support to the GMS Cooperation Program Strategic Framework 2012–2022, which prioritizes local and regional economic development through multi-sector investments that</p>	2017	203.5	203.5	ADB—149.0 Government of Viet Nam—54.5	ADB—149.0 Government of Viet Nam—54.5	<p>Ongoing (Approved in December 2017) Loan agreement was signed on 23 July and the loan became effective on 25 October 2018.</p> <p>Loan implementation consultant recruitment is almost complete. Project management units have been set up; contract award and disbursement is expected to commence in 2020.</p>	Ha Tinh, Nghe An, Quang Binh, and Quang Tri North Central provinces along EWEC	Locally prioritized basic infrastructure subprojects implemented, including (i) upgrading district roads; (ii) improving productive and business infrastructure such as (a) rural domestic water supply schemes (RDWS), (b) coastal defenses and flood protection, (c) a river port, and (d) irrigation reservoirs; and (iii) establishing provincial public asset management systems.	<p>1. Mr. Dang Quoc Khanh Chairman Tel: +84 239 3855581 Email: vanphonguobndht@gmail.com</p> <p>2. Nguyen Xuan Duong Chairman Tel: +84 238 3844859 Email: vpubnd@nghean.gov.vn</p> <p>3. Mr Nguyen Huu Hoai Chairman, Quang Binh province Tel: +84 232 3813076 Email: nguyenhuhhoaiqb@gmail.com</p> <p>4. Nguyen Duc Chinh Chairman Tel: +84 913 485 193 Email: vpubndt@quangtri.gov.vn</p> <p>Dong Ha City, Quang Tri Province.</p>

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			require strong cross-sector linkages and integration, particularly with special economic zones and border areas.									ADB Project Officer: Khuc, Huong Thi Lan, ADB Viet Nam Resident Mission Email: kthuong@adb.org
4	Climate Friendly Agribusiness Value Chains Sector Project	Cambodia, Lao PDR, Myanmar	The project will promote activities under pillars 2 and 3 of the Core Agriculture Support Program II, on climate-friendly agriculture and bioenergy. The project will invest in the development of climate-friendly pro-poor agribusiness value chains in the GMS. It will focus on rehabilitating critical production and post-harvest infrastructure to effectively link farming communities and urban centers along the corridors by developing upstream and downstream linkages. Key infrastructure investments will include (i) efficient roads that provide access to markets; (ii) renewable bioenergy systems that can meet the growing energy needs of rural communities; and (iii) efficient storage, processing-and-aggregation, grading, and marketing- and-logistics infrastructure to ensure the delivery of safe quality food products.	2018	252.4	252.4	ADB—171.0 Cofinancing (Green Climate Fund or Global Agriculture Food Security Program-[GAFSP])—62.0 Governments of Cambodia, Lao PDR, and Myanmar—9.6 Beneficiaries—9.8	ADB—171.0 Cofinancing (Green Climate Fund or Global Agriculture Food Security Program-[GAFSP])—62.0 Governments of Cambodia, Lao PDR, and Myanmar—9.6 Beneficiaries—9.8	Ongoing Approved for Cambodia on 29 June 2018; Approved for Lao PDR on 30 July 2018; Myanmar NPSC, PMU, RPIUs have already organized; Waiting for government's approval for signing the contracts with the start-up procurement specialist and financial management specialist.; RFP for recruiting Project Implementation Consulting (PIC) firm, CS-01 sent to 6 short-listed firms on 18 July 2019.	Cambodia SEC Lao PDR: NSEC Myanmar: NSEC	Critical agribusiness value chain infrastructure improved and made climate-resilient. Climate-smart agriculture and agribusiness promoted. Enabling environment for climate-friendly agribusiness enhanced.	Cambodia: Dr. Sangha Sam Chom, Deputy Secretary General, Ministry of Agriculture, Forestry & Fisheries # 40 Norodom Blvd. Phnom Penh Cambodia Lao PDR: Mr. Khampong Vongpachan, Deputy Director, Department of Technical Extension, and Agro-Processing, Ministry of Agriculture and Forestry Myanmar: Mr. Aye Ko Ko Deputy Director General, Department of Agriculture, Ministry of Agriculture, Livestock & Irrigation

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	GMS Flood and Drought Risk Management and Mitigation Project (additional financing)	Lao PDR	ADB is helping the Lao PDR and Viet Nam reduce economic losses resulting from floods and droughts. The project will combine upgrades in water-management infrastructure with community-based disaster risk management and enhanced regional forecasting to improve GMS disaster preparedness.	2020	67.0	67.0	ADB—42.0 Government of the Lao PDR—5.0	ADB—42.0 Government of the Lao PDR—5.0	Proposed Cofinancier sought	Lao PDR: Nationwide	1. Enhanced regional data, information, and knowledge base for the management of floods and droughts 2. Upgraded water management infrastructure 3. Enhanced capacity for CBDRM 4. Effective project implementation	LAO: (until 2020) Dr. Khamphachan Vongsana Department of Irrigation Mobile: 020555546830 2055933585
6	Agricultural Value Chain Infrastructure Improvement Project	Cambodia	The project will improve value chains of selected key agricultural commodities in six contiguous target provinces in northern, central and eastern Cambodia in order to make these commodities more competitive for regional agriculture trade with neighboring Thailand, Lao PDR, and Viet Nam. The project impact will be value addition in agriculture sector enhanced. The project outcome will be value addition to selected agricultural products in the project area increased.	2020	76.0	76.0	ADB—70.0 Government of Cambodia—6.0	ADB—70.0 Government of Cambodia—6.0	Proposed	Several provinces, some of which are along Southern Economic Corridor	(i) post-harvest and logistic facilities strengthened; (ii) agricultural production and service infrastructure improved; (iii) rural connectivity and disaster risk management capacity improved; and (iv) business partnership among value chain stakeholders enhanced	Takeshi Ueda, SERD/ ADB tueda@adb.org Ministry of Agriculture, Forestry and Fisheries, Cambodia

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
7	GMS Cross-border Livestock Health and Value Chains Improvement Project (formerly Animal Disease Control Zone)	Cambodia, PRC, Lao PDR, Myanmar	<p>Subprojects in Cambodia will focus on (i) the development of quarantine zones, including border quarantine posts (12 along the Cambodia–Thailand border and 8 along the Cambodia–Viet Nam border); (ii) the development of a livestock identification and traceability system; (iii) R&D in disease control and prevention; (iv) capacity building; and (v) a surveillance system.</p> <p>Livestock disease-control zones in key border areas of the PRC (Yunnan Province), Lao PDR, and Myanmar (towns of Muse and Myawaddy) will be set up to (i) mitigate and manage the risk of foot- and-mouth disease via cattle; (ii) control other key production and zoonotic diseases; and (iii) serve as a buffer zone for regulating livestock trade between the PRC and other GMS countries. The zone will house facilities for preventive measures such as animal identification (tagging), livestock movement management (e-traceability), quarantine, serological and pathological surveillance work, and vaccination facilities and services. Food-</p>	2021	150.0	235.0	ADB, Private sector, Central and provincial governments of Cambodia, the PRC, Lao PDR, and Myanmar, Banks in the PRC	ADB—225.0, Private sector, Governments of Cambodia, the Lao PDR, and Myanmar—10.0, PRC Banks	Proposed Endorsed by the Second GMS Agriculture Ministers’ Meeting, September 2017	East-West and North-South Corridors		GMS WGA Focal Points

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>safety pathogen and residue testing can be added to the system once operational. It is also important to encourage the private sector to be involved in the zone</p> <p>and to set up modern slaughterhouses, meat processing, and biodigester facilities, as well as local feedlots, through PPP schemes.</p> <p>The cost estimates by country in terms of millions of dollars are: Cambodia: 30; PRC: 50; Lao PDR: 25; Myanmar: 15; and Viet Nam: 30.</p>									
8	Agro-industrial zones (AIZs) to support promotion of safe and environment-friendly agro-based value chains	Cambodia, PRC, Lao PDR, Myanmar, Viet Nam	Each country designs its agro-industrial zone (AIZ) subprojects to promote safe and environment-friendly agriculture products (SEAPs) with a focus on (i) demonstrations for small and medium-sized enterprises (SMEs); (ii) processing, packaging, and labeling facilities, as well as common post-farm product facilities (cold storage and warehouses), laboratories, one-stop shops for inspection, and quarantine for SEAP products; (iii) strategic collection centers	2022	286.0	286.0	ADB Private sector Governments of the PRC, Lao PDR, Myanmar, and Viet Nam via public—private partnerships (PPPs)	ADB Private sector Governments of the PRC, Lao PDR, Myanmar, and Viet Nam via public—private partnerships (PPPs)	Proposed (Endorsed by the Second GMS Agriculture Ministers' Meeting, September 2017)	NSEC		GMS Working Group on Agriculture (WGA) Focal Points

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>linked to common post-farm facilities that empower the farmers and community via access to quick and reliable testing; (iv) supply chain management; (v) aquaculture value chain development; (vi) tools to ensure quality assurance; (vii) capacity building and institution building, and research and development; promotion of participatory guarantee systems; integration into SEAP wholesale markets or organic retail markets; and (x) integration into biochar and waste management.</p> <p>The cost estimates by country in terms of millions of dollars are: Cambodia: 71; PRC: 50; Lao PDR: 45; Myanmar: 30; and Viet Nam: 90.</p>									
9	Cluster and Value Chain Development for Geographical Indications related to SEAP	Cambodia, PRC, Lao PDR, Myanmar	Based on unique advantages of geography, resources, environment, and technology, the project will promote characteristic and advantageous agriculture and develop a series of agro-products with geographical indications (GI) to build industry clusters of characteristic	2022	345.0	345.0	Agence Française de Développement (AFD), ADB, Food and Agriculture Organization of the United Nations (FAO), Private sector, Ministries of	Agence Française de Développement (AFD), ADB, Food and Agriculture Organization of the United Nations (FAO), Private sector, Ministries of	Proposed (Endorsed by GMS Agriculture Ministers' Meeting, September 2017)	East-West and North-South Corridors		Myanmar: MOALI, Ministry of Education (MOE) and Ministry of Commerce (MOC)

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>and advantageous agriculture in the GMS. Main project components include (i) improvement of agricultural infrastructure construction for GI products; (ii) agricultural science and technology innovation and extension services for GI products; (iii) reform and innovation of management and operation of GI agriculture; (iv) capacity building and knowledge innovation; and (v) awareness raising and marketing.</p> <p>The cost estimates by country in terms of millions of dollars are: Cambodia: 2; the PRC: 320; Lao PDR: 3; and Myanmar: 20.</p>				agriculture and commerce of Cambodia, the PRC, Lao PDR, and Myanmar	agriculture and commerce of Cambodia, the PRC, Lao PDR, and Myanmar				
10	GMS East-West Economic Corridor Agriculture Infrastructure Sector Project (additional financing)	Lao PDR	The project will continue to support the transformation of the East-West Economic Corridor (EWEC) into an inclusive economic growth corridor, and to target areas of good agricultural potential with existing irrigation schemes. It will regenerate, replace, and upgrade underdeveloped or outdated agricultural infrastructure, including that concerned with irrigation and rural access. The project will also continue to support capacity development at	2022	67.0	67.0	ADB—42.0 Cofinancing —20.0 Government of the Lao PDR —5.0	ADB—42.0 Cofinancing —20.0 Government of the Lao PDR —5.0	Proposed	Khoueng Savannakhet, Salavan EWEC	<ol style="list-style-type: none"> 1. Improved agriculture infrastructure 2. Increased capacity of farmers to manage and use agriculture infrastructure efficiently 3. Efficient project management 	David Salter dsalter@adb.org

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			the farm level for managing and using agriculture infrastructure efficiently and effectively, so as to optimize agricultural outputs and sustain agricultural practices and trade.									
Subtotal (Agriculture Investment Projects)					1,745.6	1,830.6						
Projects proposed to be added in RIF 2022												
11	Climate Smart Horticulture Value Chain Infrastructure Project	Viet Nam		2021		TBD		ADB, Other DPs-TBD				Takeshi Ueda SERD/SEER Email: tueda@adb.org
12	GMS Economic Corridor Agribusiness Development	Myanmar		2020		150.0		ADB				Ryutaro Takaku SERD/SEER Email: rtakaku@adb.org
Subtotal (Agriculture Investment projects proposed to be added in RIF 2022)					150.0							
Subtotal (Agriculture Investment Projects)					1,745.6	1,980.6						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
1	Climate-Friendly Agribusiness Value Chains in the GMS	Cambodia, Lao PDR, Myanmar	The main outputs of the project preparatory technical assistance (PPTA) will include detailed reports on feasibility assessments, including technical, economic, and financial due diligence concerning priority agribusiness value chains in Cambodia, the Lao PDR, and Myanmar. The PPTA will produce an agreed project design in relation to the four outputs of the investment project (agribusiness value chain infrastructure, bioenergy use and sustainable biomass management, agribusiness policy and capacity-support services, and project implementation and knowledge management) with implementation arrangements suitable for each country. The PPTA will define the scope and cost of investments, subproject locations and activities, financing plan, implementation arrangements, procurement strategy, technology issues, capacity development needs, and post-project operation and project maintenance arrangements.	2015	2.5	2.5	Canadian Climate Fund for the Private Sector—1.0 Asia Clean Energy Fund (ACEF)—1.5	Canadian Climate Fund for the Private Sector—1.0 Asia Clean Energy Fund (ACEF)—1.5	Completed on 30 September 2018.		Detailed reports on feasibility assessment (technical, economic and financial due diligence) of priority agribusiness value chains in CLM countries; agreed project design in relation to the four outputs (agribusiness value chain infrastructure, bio-energy use and sustainable biomass management, agribusiness policy and capacity support services, and project implementation and knowledge management) with implementation arrangements suitable for each country.	Srinivasan Ancha, Environment, Natural Resources & Agriculture Division, Southeast Asia Department, ADB asrinivasan@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
2	Agricultural Value Chain Infrastructure Investment Project	Cambodia	The transaction technical assistance will (i) assist in the design of the Agricultural Value Chain Infrastructure Improvement Project which aims to tackle the core sector problem of low productivity, low value addition, and low resource efficiency of Cambodia's agriculture; (ii) conduct financial and integrity due diligence of the potential participating financial institutions; (iii) carry out technical, financial, economic, procurement, social, gender and environmental due diligence required by ADB and the government; (iv) propose the implementation arrangements; (v) ensure synergies and integration with other related interventions; and (vi) prepare the project documents according to ADB requirements. It will also provide support to incorporate climate change adaptation and mitigation measures in the design of value chain infrastructure and facilities.	2018	2.0	2.0	Part of ADB TRTA Facility	Part of ADB TRTA Facility	Ongoing		Value chain analyses for selected agricultural products conducted. Investment feasibility studies and due diligence prepared. Design of agricultural value chain financing mechanisms developed. Detailed engineering designs and bidding documents prepared.	Takeshi Ueda, SERD/ADB tueda@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	GMS Sustainable Agriculture and Food Security Program (formerly called "Implementing the Strategy on Agro-based Value Chain Investments in the GMS")	All GMS countries	This knowledge and support technical assistance will build on the successful pilots of the Core Agriculture Support Program Phase II, which is included in the 2018 pipeline of ADB's Environment, Natural Resources and Agriculture Division (SEER).	2019	10.0	TBD	Nordic Development Fund (NDF) Other Donors (TBC)	Nordic Development Fund (NDF) Other Donors (TBC)	Proposed.			GMS WGA Focal Points
4	Economic Corridor Agribusiness Development	Myanmar	The project will support value chain development in priority economic corridors in Myanmar, building on the Climate-Friendly Agribusiness Value Chain Project and the Irrigated Agriculture Inclusive Development Project. It will seek to promote linkages with planned and ongoing transport investments in the ADB portfolio and will adopt an area-based approach to fostering agribusiness links.	2019	0.8	TBD	TBD		Proposed			
5	Supporting Infrastructure Development of Agro-industrial Zones for SEAP	Cambodia, PRC, Myanmar	The project involves (i) facilitating and/or enabling farmer cooperatives to engage in contract farming with the private sector to promote SEAP cultivation (crops, horticulture, vegetables, industrial crops, livestock, and aquaculture); (ii) controlling and efficiently using acceptable pesticides and fertilizers to boost SEAP production;	2020	25.0	5.0	ADB, Other donors, Private sector	ADB, Other donors, Private sector	Proposed			GMS WGA Focal Points in target countries

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			(iii) strengthening institutions and building the capacity of government officials to deliver services and manage agro- industrial zones (AIZs), and building the capacity of farmers to produce SEAPs for the AIZs; (iv) promoting appropriate technologies, such as Good Agricultural Practices (GAP), Good Animal Husbandry Practices (GAHP), Good Aquaculture Practices (GAQP), and Good Handling Practices (GHP), as well as Good Manufacturing Practices (GMP); and (iv) managing supply chains.									
6	Geographic Indications (GI) Value Chain Development and Brand Building	Cambodia, PRC, Myanmar, Viet Nam	The project includes (i) the development of value chain financing; (ii) promotion of public-private partnership (PPP) schemes; (iii) development of farmer organizations; (iv) establishment of GI processes and regulations; (v) capacity and institution building, including interministerial and public-private dialogue; (vi) incubator development (R&D to increase productivity); (vii) guidelines for responsible agribusiness investments; (viii) R&D on production and processing; (ix) capacity building and cooperation	2020	18.0	18.0	AFD, ADB, FAO, Private sector, Governments of Cambodia, PRC, and Viet Nam	AFD, ADB, FAO, Private sector, Governments of Cambodia, PRC, and Viet Nam	Proposed			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			with regard to brand research and brand evaluation; (x) capacity building in brand management for government officials; (xi) knowledge sharing concerning brand development; (xii) a study of export markets; and (xiii) studies of market and consumer preferences.									
7	Agribusiness Incubator Development	Cambodia, Lao PDR, Myanmar	Strengthening small and medium-sized enterprises (SMEs), forging links between SMEs and smallholder farmers, and prioritizing farmers from agribusiness incubators and farmers dedicated to SEAPs.	2020	19.0	19.0	ADB, International Finance Corporation (IFC), Other donors, Private sector	ADB, International Finance Corporation (IFC), Other donors, Private sector	Proposed			
8	Climate Change Adaptation in Highland Agriculture (formerly Enhancing Productivity and Competitiveness of Safe and Environment Friendly Agriculture)	Thailand	The TA will focus on enhancing competitiveness of highland agriculture by piloting models such as Kok Nang Na integrated farming systems that will change slash and burn practices to sustainable highland agriculture practices.	2020	2.0	5.0	Trust Fund—2.0	Trust Fund—2.0	Proposed			
*Not applicable	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	To develop 3 criteria such as: food/agriculture supply chains, food safety and agriculture trade modernization. The digital technology system is a modality key to achieve those fundamental elements to support agriculture industry.	2020	*Count and Cost estimate listed under ICT to avoid double counting	*Count and Cost estimate listed under ICT to avoid double counting	ADB, IFAD, FAO	ADB, IFAD, FAO	Proposed by Lao PDR			Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansompheng@yahoo.com

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
9	GMS Cross-Border Livestock Health and Value Chains Improvement (formerly called Animal Disease Control Zone)	Cambodia, PRC, Lao PDR, Myanmar	The project includes (i) building an e-traceability system for tracking livestock movement along GMS borders to better control transboundary animal diseases; (ii) investigating animal movement along the borders between the PRC and the other GMS countries, and conducting research on the livestock product value chain; (iii) building capacity in related fields; (iv) establishing financing mechanisms for sustaining the zones; (v) developing surveillance and inspection systems; and (vi) fostering technical exchanges between animal disease laboratories in GMS countries.	TBD	TBD	5.0	TBD	TBD	Proposed			GMS WGA Focal Points in target countries
10	Strengthening Quarantine Facilities in Myanmar	Myanmar	Myanmar has demonstrated that market-oriented reforms and increased trade are on its national development agenda. The importation and exportation of agricultural products, as well as quarantine facilities, are important for the country's commercial development. Proposed outputs include (i) the implementation of a fully online system for applications and certifications for the importation and exportation of animals, animal products, animal feed, and veterinary	TBD	*	0.5	TBD	TBD	Proposed by Myanmar *Transferred from Transport and Trade Facilitation		See description	Dr. Ye Tun Win Director General, Livestock Breeding and Veterinary Department, Ministry of Agriculture, Livestock and Irrigation (MOALI) Myanmar 067-408056 ytwvet84@gmail.com

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			drugs; (ii) the upgrading and facilitation of animal quarantines and checkpoints; and (iii) the upgrading of the website of the Government of Myanmar's Livestock Breeding and Veterinary Department.									
11	GMS East-West Economic Corridor Agriculture Infrastructure Sector Project (additional financing)	Lao PDR	This TA project will prepare the due diligence for additional financing to support the transformation of the EWEC into an inclusive economic corridor; and it will target areas with good agricultural potential by including them in existing irrigation schemes.	TBD	1.0	1.0	ADB (Part of TA Facility)	ADB (Part of TA Facility)	Proposed	EWEC		David Salter dsalter@adb.org
Subtotal (Agriculture Technical Assistance Projects in RIF 2022)					80.3	58.0						
Project proposed to be added in RIF 2022												
12	Preparing Agriculture, Natural Resources and Rural Development projects on ASEAN (TRTA Facility)	All GMS Countries		2019 (Supplementary)		2.0		TBD	Proposed			
Subtotal (Agriculture Technical Assistance Projects proposed to be added in RIF 2022)					2.0							
Subtotal (Agriculture Technical Assistance Projects)					80.3	60.0						
Total (Agriculture Investment and Technical Assistance Projects)					1,837.9	2,040.6						

Environment

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Greater Mekong Subregion Biodiversity Conservation Corridors Project	Cambodia, Lao PDR, Viet Nam	Overall, the Project will improve natural resource management by establishing GMS Biodiversity Conservation Corridors, a transboundary, forest ecosystem-based landscape approach for maintaining sustainably critical ecosystem services that benefit local livelihoods and downstream users. In this context, beneficiaries, most of whom are living in remote, mountainous, high poverty areas, and are from ethnic minority groups, will be provided with demand driven, and stakeholder prioritized livelihood improvement and small-scale infrastructure support in 69 selected villages.	2010	93.0	93.0	ADB—69.0 Strategic Climate Fund—20.24 GEF—3.79	ADB—69.0 Strategic Climate Fund—20.24 GEF—3.79	Ongoing The project' overall implementation progress has been approximately achieved at about 75% (as of July 2019) against an elapsed time of 98%. The Memo requesting for an approval of first extension of grant closing date for an additional 12 months, from 30 September 2019 to 30 September 2020" is being internally processed.	Cambodia: The Project covers 14 communes: 7 in Koh Kong province (KKG) and Monduliri (MDK) including 9 Community Protected Areas (CPAs) and 15 Community Forests (CFs).	Institutional and Community Strengthening, Biodiversity Corridor Restoration and Protection, Livelihood Improvement and Small-scale Infrastructure support, and Project management and support services.	
2	Land-based Pollution Management for Healthy Rivers and Oceans (formerly, Rural Environmental Management, Pollution Control, and Waste Management)	All GMS countries	The project will help to improve the quality of the environment; reduce vulnerability to water, food, and health security; and subsequently boost market competitiveness (through the production of safe and environment-friendly agriculture products [SEAPs]), as well as the incomes of rural communities.	TBD	300.0	300.0	TBD	TBD	Proposed (Project is seeking cofinancing partners)	Peri-urban and nearby rural areas of select corridor towns and agri-industrial zones (1 identified town or agri-industrial zone per country)	Integrated pollution control measures in agriculture SMEs (e.g. pig and dairy farming), Development of integrated environmentally sustainable aquaculture and Improved rural	

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>The project will also target the geographic nexus between rural and peri-urban areas along the GMS economic corridors, focusing on environmental quality issues arising from the flow of agriculture goods and services. It will work to enhance the environmental performance of the agriculture sector and of the development investments in small corridor towns specified in the Regional Investment Framework 2022. A few of the targeted ongoing and planned investment projects are as follows:</p> <p>GMS Corridor Town Development Project Agro-industrial zones (AIZs) to support promotion of safe and environment-friendly agro-based value chains Corridor Town Development Project</p> <p>The cost estimates by country in terms of millions of dollars are: Cambodia: 40; PRC: 70; Lao PDR: 35; Myanmar: 35; Thailand: 70; and Viet Nam: 50.</p>							environment management regimes.		

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	Climate Smart Landscapes (formerly called Integrated Land Use Management for Sustainable Development)	All GMS countries, 4 Trans-boundary Landscapes	<p>The project will promote a better allocation and management of land resources, and develop pro-poor, green commodities and services. A multidisciplinary value-chain approach will be adopted to enhance productivity and market linkages, and to reduce both environmental (degraded air, water, and soil quality) and climate-related risks.</p> <p>In addition, the project will focus on critical agricultural landscapes in an effort to better manage vital ecosystems, and will offer provisioning and regulatory services to improve productivity and resiliency. The project will also support other planned or ongoing investment projects such as: Climate-Friendly Agribusiness Value Chains in the GMS, and Cluster and Value Chain Development for Geographic Indications. It will build on proven investment models such as that used for the GMS Biodiversity Conservation Corridor Project and will align with GMS transboundary biodiversity landscape management strategies that are currently under development.</p>	TBD	240.0	240.0	TBD	TBD	Proposed Has not been implemented / Under preparation for in-country consultation Project is seeking co-financing partners		Strengthen land management, Market development for green commodities and ecotourism, Skills development for value addition and inclusion of rural communities in green commodity value chains, and Financing for management of ecosystems services.	

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			<p>Strengthened land management: integrated spatial and land-use planning (delineation, demarcation, land management, protection, restoration, soil pollution control, and remediation); and recommendations of community-development initiatives to enhance livelihood options, provide food security, and reduce poverty; market development for green commodities and ecotourism: certification and accreditation systems, a value chain approach to developing ecotourism, and market linkages through private sector participation; skill development for value addition and for the inclusion of rural communities in green commodity value chains; financing to support the management of ecosystem services; and analysis and design of compensation mechanisms for environmental services based on an ecosystems approach (including the development of a mechanism for payment for ecosystem services [PES]).</p> <p>The estimated costs by country in terms of millions of dollars are: Cambodia: 60; PRC: 40; Lao PDR: 40; Myanmar: 20; Thailand: 40; and Viet Nam: 40.</p>									

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
4	Climate Proofing of Rural Infrastructure and Risk Financing	Cambodia, Lao PDR, Myanmar and Viet Nam	The project will be regional in nature and focus on issues that require cross-border disaster risk management (DRM) efforts; aligned with regional DRM priorities of the GMS countries; introduce innovative solutions; promote community-based, gender-focused, and socially inclusive interventions on DRM; and support stronger engagement with civil society and the private sector	TBD	TBD	TBD	TBD	TBD	Proposed by Lao PDR		Climate proof rural supply chain infrastructure, Strengthening disaster risk preparedness of vulnerable communities and SMEs, and Investing in risk financing for communities and sustainable livelihoods.	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansompheng@yahoo.com
Subtotal (Environment Investment Projects in RIF 2022)					653.0	633.0						
Project proposed to be added in RIF 2022												
5	GMS Biodiversity Conservation Corridors Project – Additional Financing	Cambodia	With the additional financing (parent Grant 0241), the climate resilience of the communities and ecosystems supported by the project will be enhanced, while the project's impact and outcome statements will remain unaffected. To accommodate the additional financing, the project scope will be changed to benefit a further 4,300 households with climate-resilient livelihoods through new investments undertaken within outputs 3 and 4.	2015		7.4		ADB	Ongoing. The project's overall implementation progress is approximately achieved at about 75% (as of 31 July 2019) against an elapsed time of 96%.	The Project covers 14 communes: 7 in Koh Kong (KKG) and Mondulkiri (MDK) province.	Institutional and Community Strengthening, Biodiversity Corridor Restoration and Protection, Livelihood Improvement and Small-scale infrastructure support, and Project management and support services.	Alvin Lopez SERD-SEER, ADB Email: alopez@adb.org

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Investment project proposed to be added in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									Extension of grant closing date for an additional 12 months, from 30 September 2019 to 30 September 2020” is being processed.			
Subtotal (Environment Investment Project proposed to be added in RIF 2022						7.4						
Subtotal (Environment Investment Projects)					653.0	640.4						

Technical Assistance Projects

(1) No.	(1) Project Title	(2) Country Coverage	(3) Description	(4) Year of Approval	(5) Cost Estimate (\$ million)		(6) Potential Funding Source and Amount (\$ million)		(7) Status Updates	(8) Key Locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
1	GMS Climate Change and Environmental Sustainability Program (CCESP) (formerly called GMS Environment Service Facility (a.k.a. GMS Core Environment Program (CEP) Phase 3)	All GMS countries	<p>The proposed knowledge and support technical assistance (TA) on CCESP will build on the key achievements of two phases of the GMS CEP and support the implementation of the GMS CEP Strategic Framework and Action Plan 2018-2022. The CCESP will focus on creating enabling conditions to leverage additional investment in priority areas such as (i) low carbon transitions, climate resilience and disaster risk management; (ii) natural resources and ecosystem services; and (iii) green technologies and sustainable infrastructure.</p> <p>CCESP's key focus is to support countries in achieving environment and climate action-related Sustainable Development Goals (SDGs) and in implementing the Nationally Determined Contributions under the Paris Agreement on Climate Change. The proposed TA will assist GMS towards becoming a more integrated, inclusive, resilient, prosperous, and sustainable subregion by contributing to development of a greater number of "green and climate-friendly" projects in the GMS Regional Investment Framework (RIF).</p>	2019	10.0	10.0	ADB—1.5 TBD—8.5	TBD	Proposed In preparation		The CCESP TA will have six themes to be implemented over a period of 5 years: (i) climate change adaptation and disaster risk management; (ii) low carbon transition of agriculture, energy and transport sectors; (iii) climate-smart ecosystem landscapes; (iv) pollution control and sustainable waste management; (v) green technologies for climate action and environmental sustainability; and (vi) financing sustainable infrastructure and low-carbon, climate-resilient technologies.	Srinivasan Ancha SERD/SEER, ADB Email: asrinivasan@adb.org

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Technical assistance projects in RIF 2022 continued

(1) No.	(1) Project Title	(2) Country Coverage	(3) Description	(4) Year of Approval	(5) Cost Estimate (\$ million)		(6) Potential Funding Source and Amount (\$ million)		(7) Status Updates	(8) Key Locations and GMS Economic Corridor Alignment	(9) Expected/ Planned Measurable Outputs	(10) Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
2	Rural Environmental Management, Pollution Control, and Waste Management (GMS CEP Strategic Framework and Action Plan)	All GMS countries	This preparatory TA will assess the technical, financial, and institutional feasibility of the Rural Environmental Quality, Pollution Control, and potential Waste Management Projects.	2022	1.5	1.5	TBD	Part of TRTA Facility	Proposed			
3	Integrated Land-use Management for Sustainable Development (GMS CEP Strategic Framework and Action Plan)	All GMS countries	This preparatory TA will assess the technical, financial, and institutional feasibility of Integrated land use management systems for sustainable development.	2022	1.5	1.5	TBD	Part of TRTA Facility	Proposed			GMS WGE Focals
Subtotal (Environment TA Projects in RIF 2022)					15.8	13.0						

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(1) No.	(1) Project Title	(2) Country Coverage	(3) Description	(4) Year of Approval	(5) Cost Estimate (\$ million)		(6) Potential Funding Source and Amount (\$ million)		(7) Status Updates	(8) Key Locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Project proposed to be added in RIF 2022												
4	Core Environment Program and Biodiversity Conservation Corridors Initiative in the GMS, Phase 2	All GMS Countries	The TA will promote sound environmental management and climate resilient interventions within the context of the GMS Economic Cooperation Program (ECP). It aims to reconcile development objectives in the GMS economic corridors with conservation and sustainable use of ecosystem services in priority transboundary landscapes and associated biodiversity corridors. The TA will accomplish this by integrating sound environmental management, biodiversity conservation and climate resilience measures in the GMS ECP.	2011		30.31	ADB-1.8 Co-financing—28.5 (Finnida grant—14.0, Swedish TA grant—8.3; Nordic-5.3; GEF—0.46; GEF Special Climate Change Fund—0.46)		Ongoing		Specifically, it will support the (i) application of environmental management, planning and monitoring approaches and tools to aid investment decision making; (ii) climate resilience through adaptation planning and low carbon and energy efficient investment strategies; and (iii) sustainable financing for conservation; and capacity development to ensure uptake of these measure by appropriate stakeholders including government, civil society and community groups.	Srinivasan Ancha SERD/SEER, ADB Email: asrinivasan@adb.org
Subtotal (Environment TA Projects proposed to be added in RIF 2022)						30.3						
Subtotal (Environment TA Projects)						15.8	43.3					
Total (Environment Investment and TA Projects)						573.3	683.7					

Health and Other Human Resource Development

Investment Projects

No.	Project Title	(2) Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	GMS Health Security Project (formerly GMS Communicable Disease Control Project Phase III)	Cambodia, Lao People's Democratic Republic (Lao PDR), Myanmar, Viet Nam	The project aims to strengthen public health security in the face of emerging diseases and other communicable diseases relevant to the Greater Mekong Subregion (GMS) by improving public-health security systems and Centers for Disease Control and Prevention (CDC) in border areas in Cambodia, the Lao PDR, Myanmar, and Viet Nam. It focuses mainly on mobile and migrant populations (MMPs), as well as on other vulnerable groups. Counterpart Funding (\$ million): Cambodia 1.8 Lao PDR 0.6 Myanmar 0.8 Viet Nam 4.0 Total 7.2	2016	132.2	132.2	Asian Development Bank (ADB)—125.0 Governments' Counterpart—7.2	Asian Development Bank (ADB)—125.0 Governments' Counterpart—7.2	Ongoing All loans and grant are effective. Inception missions were fielded in all countries. Project start-up activities were completed, e.g., PMU set-up, establishment of advance account, annual operation planning, initial procurement and recruitment activities, capacity building trainings and workshops. Midterm review scheduled on Sep–Oct 2019.	Cambodia: SEC Lao PDR: NSEC, SEC Myanmar: NSEC Viet Nam: NSEC, EWEC, SEC	Project outputs include: (i) strengthened regional, cross-border, and inter-sectoral CDC services; (ii) strengthened national disease surveillance and outbreak response; and (iii) improved laboratory services and hospital infection prevention and control.	Director, Central Epidemiological Unit, Department of Public Health, Ministry of Health of Myanmar +95 67 3431432 dophceu@gmail.com Rikard Elfving, Senior Social Sector Specialist, SEHS/SERD, ADB relfving@adb.org Raile Dusseldorf Flores, Project Analyst, SEHS/SERD, ADB rflores@adb.org
2	Guangxi Modern Technical and Vocational Education and Training (TVET) Development Program (RBL)	PRC	The program will support the establishment of a modern technical and vocational education and training (TVET) system that provides graduates with better employment opportunities in industries in Guangxi Zhang Autonomous Region (GZAR) and ASEAN countries. The program outputs include (i) enhanced industry relevance	2017	450.6	450.6	ADB loan—250.0 ADB TA—0.6 Kreditanstalt für Wiederaufbau (KfW)—200.0	ADB loan—250.0 ADB TA—0.6 Kreditanstalt für Wiederaufbau (KfW)—200.0	Ongoing Targets to promote/enhance regional cooperation and integration are being achieved. TVET institutions in GZAR have been selected as partners of ASEAN TVET	Guangxi NSEC	Number of participants in training programs between selected TVET institutions in GZAR and ASEAN TVET institutions and/or enterprises increased to at least 10% over the 2018 number by 2020.	Asako Maruyama, Education Specialist, EASS/EARD, ADB amaruyama@adb.org

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Investment projects in RIF 2022 continued

No.	Project Title	(2) Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			of TVET; (ii) improved quality of TVET; (iii) increased inclusiveness of TVET; and (iv) expanded role of TVET in regional economic development. The attached TA aims to strengthen the capacity of the TVET system for enhancing the quality and relevance of TVET, and regional cooperation between TVET institutions and enterprises in GZAR and ASEAN countries.						institutions and/or enterprises. Plans for regional cooperation and partnership agreements are being prepared.		1,600 students from ASEAN countries received vocational education certificates annually from GZAR's TVET institutions, of which 10% were female by 2020	
3	Local Health Care for Disadvantaged Areas Sector Development Program (formerly Strengthening Local Health Care Support Program)	Viet Nam	The project will enhance the delivery of primary health-care services in order to more effectively address the key challenges involved in the prevention and control of communicable and noncommunicable diseases, taking into account the overall health security of the region. The program's impact will include strengthened health systems, with the aim of achieving universal health coverage (UHC) and inclusive growth. The program's outcome will include a better quality of—and easier access to—local health services, especially for poor and vulnerable populations in disadvantaged, remote, mountainous, or border areas	2018	100.6	100.6	ADB—100.6	ADB—100.6	Ongoing	Nationwide	Output 1: Public investment management for local health care strengthened. Output 2: Service models of local health care network improved. Output 3: Local health care workforce development and management strengthened	Gerard Servais Sr., Health Specialist, SEHS/SERD, ADB gservais@adb.org

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Investment projects in RIF 2022 continued

No.	Project Title	(2) Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
4	GMS Health Security Project (additional financing)	Cambodia, Lao PDR, Myanmar, Viet Nam	The additional financing will support the current GMS Health Project, particularly the (i) regional disease control and treatment response for MMPs in border provinces; (ii) support for joint outbreak response; (iii) the piloting of a regional information and communication technology (ICT) platform for surveillance and outbreak response; (iv) monitoring and support of regional cooperation in health security; (v) regional knowledge management support; and (vi) surveillance, control, and prevention of emerging or reemerging diseases;	2021	60.0	60.0	ADB —60.0	ADB —60.0	Proposed To be discussed and confirmed/ finalized during the forthcoming WGHC3 meeting (Dec 2019)	TBD	(i) regional disease control and treatment response for MMPs in border provinces; (ii) support for joint outbreak response; (iii) the piloting of a regional information and communication technology (ICT) platform for surveillance and outbreak response; (iv) monitoring and support of regional cooperation in health security; (v) regional knowledge management support; and (vi) surveillance, control, and prevention of emerging or reemerging diseases.	Rikard Elfving, Senior Social Sector Specialist, SEHS/SERD, ADB relfving@adb.org; Raile Dusseldorf Flores, Project Analyst, SEHS/SERD, ADB rflores@adb.org

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Investment projects in RIF 2022 continued

No.	Project Title	(2) Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	GMS Universal Health Care: GMS Healthy Border Special Economic Zones	Cambodia, Lao PDR, Myanmar, Thailand	Financing health care for migrants. Includes development of financing scheme, broadening UHC coverage to include migrants, developing and implementing service provision packages for migrants	2021	52.0	72.0	ADB —52.0 PRC Technical Assistance	ADB —72.0 Mix of TA, grant and loans	Proposed Proposed loan breakdown: Cambodia – 20.0 Lao PDR – 16.0 Myanmar – 36.0 Thailand (tbc) Concept paper finalized.		Outcome: Migrant and Thai workers' health in SEZs on economic corridors improved Output 1: A coordinated ASEAN-wide hub for border zone health established Output 2: Green and inclusive social infrastructure in and around border SEZs built Output 3: Border Zones Health Fund (BZHF) established	Azusa Sato, Health Specialist, SEHS/SERD, ADB asato@adb.org Rikard Elfving, Senior Social Sector Specialist, SEHS/SERD, ADB relfvng@adb.org
Subtotal (Health and other HRD Investment Projects)					795.4	815.4						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	GMS HRD Strategic Framework and Action Plan 2013–2017, Phase 2	All GMS countries	<p>The project focuses on the three of the seven strategic thrusts of the Strategic Framework and Action Plan 2013–2017, and it is generating the following outputs:</p> <p>(i) improved cooperation regarding TVET, (ii) improved cooperation in higher education, and (iii) strengthened national implementation and monitoring of the strategic framework and action plan. The project also supports the annual meetings of the working group on human resource development (HRD), held to share knowledge and experiences concerning emerging HRD issues and to enhance regional networks and partnerships in HRD.</p>	2013	2.1	2.1	ADB—1.3 PRC Fund—0.5 Governments of the GMS countries —0.3	ADB—1.3 PRC Fund—0.5 Governments of the GMS countries —0.3	Completed			
2	Malaria and Communicable Diseases Control in the GMS	Cambodia, Lao PDR, Myanmar	<p>This regional capacity development TA is expected to fill policy gaps by (i) targeting vulnerable groups, in particular MMPs; (ii) strengthening diagnostic and treatment capacity in remote districts; (iii) improving disease surveillance and rapid response to epidemics; and (iv) involving the private sector in the delivery of health services targeting vulnerable groups.</p>	2015	4.5	4.5	Trust Fund under Health Financing Partnership Facility—4.5	Trust Fund under Health Financing Partnership Facility—4.5	Completed on 25 June 2018. TA Completion Report finalized and circulated.		<p>Output 1: malaria diagnostic capacities and training of relevant health staff in 2 regions and 5 townships in Myanmar.</p> <p>Output 2: field-based activities in selected CLM districts done</p>	Gerard Servais Sr., Health Specialist, SEHS/SERD, ADB gservais@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											to assess MMPs malaria risks and develop pilot models. Output 3: cross-border information sharing on malaria and communicable disease outbreaks. The TA also conducted regional activities to support regional health cooperation and improvement of IPC and laboratory services in the GMS (including Thailand and PRC).	
3	Strengthening Resilience to Climate Change in the Health Sector in the Greater Mekong Subregion	Cambodia, Lao PDR, Viet Nam	This regional capacity development technical assistance (TA) will work with regional academic and research institutions, as well as with public health and environmental authorities, to build the scientific knowledge needed to address the health impact of climate change and quantify the additional burden of affected health outcomes. It will support workforce development by.	2015	4.4	4.4	Nordic Development Fund —4.36 Governments of Cambodia, Lao PDR, and Viet Nam —0.05	Nordic Development Fund —4.36 Governments of Cambodia, Lao PDR, and Viet Nam —0.05	Ongoing Training materials have been finalized and submitted to ADB. Vulnerability and adaptation (V&A) assessments are currently being finalized. National health	Nationwide	Output 1: Knowledge and understanding of relationship between climate change and human health improved. Output 2: Human resource skills in coping with climate change adaptation in	Ye Xu, Health Specialist, SEHS/SERD, ADB yexu@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			training a new generation of competent and experienced public health staff to respond to the threats posed by climate change and incorporate mainstream climate concerns into health policies and programs. It will increase awareness in the public and private sectors of the significance of climate change, and identify potential public-private partnerships (PPPs) for the implementation of adaptation measures, such as climate-proof infrastructure						adaptation plans (HNAP) are also being prepared and updated.		the health sector strengthened. Output 3: Knowledge products shared and advocacy promoted.	
4	Poverty Reduction through Safe Migration, Skills Development and Enhanced Job Placement in Cambodia, Lao People's Democratic Republic and Thailand (PROMISE)	Cambodia, Lao PDR, Myanmar, Thailand	PROMISE is a regional program led by the IOM that strengthens the linkages between labor migration to Thailand and efforts to reduce poverty in the region, with a particular focus on engaging employers and training institutions in skill development, facilitating ethical recruitment and protection, and improving the safety of migration and the access of migrant workers to decent employment opportunities. PROMISE has established partnerships between employers in Thailand and skill-development partners based in Cambodia, the Lao del).	2017	8.3	8.3	Swiss Agency for Development and Cooperation (SDC), International Organization for Migration (IOM)	Swiss Agency for Development and Cooperation (SDC), International Organization for Migration (IOM)	Ongoing PROMISE completed second year of implementation in September 2019. Progress achieved includes awareness-building and mobilization of manufacturing and hospitality employers in Thailand on migrant worker skills development and rights protection; operationalizing cross-border .		Migrant workers provided training and information through Migrant Resource Centers on safe migration and soft skills; pre-departure/post-arrival/re-integration orientation; upskilling; and entrepreneurship. Migrant workers assisted on job placement, job matching; participate in job fairs, and join migrant networks. Employers and	Ms Giulia Micozzi, IOM Thailand gmicozzi@iom.int

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
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			<p>PDR, Myanmar, and Thailand to develop market-driven and migrant-centered skills training, and promote ethical recruitment models that will improve the protection and employability of migrants. PROMISE also facilitates greater cross-border exchanges, as well as bilateral and subregional collaboration on skill development and certification. In addition, the return and reintegration component broadens the opportunities for returning migrants to utilize their skills and invest their social and financial capital productively upon their return. PROMISE also builds the capacity of migrant support services in Cambodia, the Lao PDR, and Myanmar to provide reintegration services and enhance the linkages of these services with employment offices, skills certification authorities, financial institutions, and professional associations. Finally, PROMISE works to support migrant-protection frameworks at the national and subregional levels, engaging in policy development and capacity of governments building and non-state actors (including the promotion of the employer-paid ethical recruitment mo</p>						<p>skills development schemes between training providers, implementing on-the-job trainings and workplace orientation for newcomers; consultations on development of regional soft skills guidelines for migrant worker skills development; improving skills circulation and validation upon return through job-matching services, improving the capacities of Migrant Resource Centres and promoting employer awareness in the countries of origin; supporting national policy design on migration and human resource development</p>		<p>recruitment agencies understand business case and commit to ethical recruitment and skills development of migrant workers. Policy development for mainstreaming migration through national development plans; enhanced regional dialogue and bilateral cooperation on safe migration, skills recognition, ethical recruitment, and mobility; improved labor migration schemes.</p>	

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Technical assistance projects in RIF 2022 continued

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					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	Strengthening Regional Health Cooperation in the Greater Mekong Subregion	All GMS countries	The TA will strengthen health cooperation in the GMS by developing a subregional framework and strategy for health cooperation, and by establishing a working group on health cooperation to oversee the implementation of the strategy and ensure its effectiveness. The proposed TA will also promote knowledge exchange and capacity development.	2018	1.0	1.0	ADB—1.0	ADB—1.0	<p>Ongoing</p> <p>The TA supported the WGHC-2 meeting in Myanmar in December 2018. Consultations with Thailand are ongoing to prepare for WGHC-3 meeting planned on 12-13 December in Bangkok.</p> <p>The GMS Health Cooperation Strategy 2019-2023 endorsed by the WGHC-2 held in December 2018 was subsequently endorsed ad referendum by the ministries of health of the GMS countries in Q1 2019. The Strategy was published in July 2019 and copies were sent to WGHC members via courier. The document is also uploaded in the GMS Health Cooperation webpage (https://www.great-ermekong.org/)</p>		<p>Expected outcome: regional health cooperation in GMS strengthened.</p> <p>Output 1: GMS Working Group on Health Cooperation (WGHC) established.</p> <p>Output 2: GMS Health Cooperation Strategy developed and implemented.</p> <p>Output 3: Knowledge development and exchange promoted.</p>	<p>Rikard Elfving, Senior Social Sector Specialist, SEHS/SERD, ADB relfving@adb.org</p> <p>Jerry Colasito, Project Analyst, SEHS/SERD, ADB jcolasito@adb.org</p>

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
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									<p>greater-mekong-subregion-health-cooperation-strategy-2019%E2%80%932023).</p> <p>The strategy will be launched during the GMS Ministerial Conference in October 2019 in Cambodia. The Cambodia Health Minister will lead the launch during the conference.</p> <p>An M&E specialist has been engaged in July 2019 to help develop the GMS Health Cooperation Results-Based Framework (M&E framework) and the Regional Action Plan.</p> <p>The TA also supported the development of the concept paper for the proposed regional Migrant Healthcare Financing project (also known as</p>			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									<p>GMS Universal Health Care: GMS Healthy Border Special Economic Zones).</p> <p>Research on migrant health package and Report on Migrant Health-Seeking Behaviour in three Thai border zones have been undertaken. These studies are expected to inform the proposed Migrant Healthcare Financing project.</p>			
6	TA Facility: Support for Human and Social Development in Southeast Asia. Improving UHC Coverage in Border Areas for MMPs Project	Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam, Indonesia, Philippines	The proposed transaction technical assistance (TA) facility will help the Asian Development Bank (ADB) Southeast Asia (SEA) developing member countries (DMCs) in designing programs and projects in human and social development (HSD), including piloting innovations, and furthering institutional and policy reform. The initial focus will be on programs and projects included in the country operations business plans (COBPs) up to 2021. The proposed TA facility will also support demand-driven policy and technical advisory services, capacity building, and knowledge sharing.	2018	3.0	3.0	ADB TASF—3.0	ADB TASF—3.0	Ongoing ADB approved TA funding in November 2018.		<p>Output 1: Human and social development projects prepared.</p> <p>Output 2: Demand-driven policy advice and capacity building for project implementation supported.</p> <p>Output 3: Knowledge development among ASEAN countries promoted.</p>	Azusa Sato, Health Specialist, SEHS/SERD, ADB asato@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
7	High Level Technology Solutions for Communicable Disease Control in the GMS	Cambodia	The project will support: (i) dashboard of cross database systems; (ii) health facility and resource mapping; and (iii) health services hotline support to migrant mobile population.	2018	0.1	0.1	High-Level Technology Fund (HLT)/ADB—0.14	High-Level Technology Fund (HLT)/ADB—0.14	Ongoing		<p>Output 1: beta version of communicable disease information dashboard integrating 3 databases</p> <p>Output 2: health facility and resource mapping that will allow MOH and relevant agencies to search quickly where available resources are, based on the epicenter of the outbreak.</p> <p>Output 3: health service hotline for migrants. The proposed new hotline will automatically detect the migrant's location in order to filter appropriate information (e.g. health facility locations).</p>	Azusa Sato, Health Specialist SEHS/SERD, ADB asato@adb.org

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Technical assistance projects in RIF 2022 continued

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					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
8	Tuberculosis Regional Grant	Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam	The Global Fund Regional Tuberculosis Grant (2019-2021) is a multi-country grant for tuberculosis interventions among migrant and mobile populations in the Mekong region. It involves cross-border systematic screening and referral and information sharing.	2018	10.0	10.0	The Global Fund —10.0	The Global Fund —10.0	<p>Ongoing</p> <p>Key implementers and main activities in each country with set targets throughout three years (2019-2021) finalized including the implementation arrangement/ mapping of the project.</p> <p>The remaining regional activities are M-Fund (USD 149,999) and Regional Database Development (USD 300,000).</p> <p>Two meetings will be organized for 2019:</p> <ul style="list-style-type: none"> • 1st meeting in May 2019 to ensure that the project completes grant agreements between the PR-UNOPs and Co-PRs, and Co-PRs and in-country SRs; disbursements and activity implementation 			Dr. Petchsri Sirirund spetchsri@gmail.com RCM Secretariat head; CCM Secretariat office, Building 2, 3rd Floor, Office of Permanent Secretary, Ministry of Public Health, Tiwanont Rd., Nonthaburi, Thailand 11000 Tel. (66) 2590 1500, Fax. (66) 2591 5040 ccmthailand@gmail. com

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									<p>progress of the first quarter.</p> <ul style="list-style-type: none"> 2nd meeting in Mid-October 2019 to monitor project implementation results and prepare for the next year (2020) implementation. 			
9	Regional Artemisinin-resistance Initiative 2 Elimination (RAI2-E)	Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam	RAI2-E is a consolidated regional malaria grant for 2018-2020 which constitutes the second phase of the current regional artemisinin-resistance initiative with the adoption of the regional malaria elimination goal at the core of the project. It supports increased malaria service coverage for remote populations in border areas and other at-risk populations, as well as case management through health volunteers and strengthening of national surveillance systems. It involves exchange information on epidemic outbreak, follow-up treatment SOP, vector control, and partnership at national and international levels.	2018	32.0	32.0	The Global Fund—32.0	The Global Fund—32.0	<p>Ongoing</p> <p>Current grant is bringing the Region closer to malaria elimination as a result of increased coordination and dialogue between countries, and the RAI alignment with National Strategies. The increasing role and coverage of community malaria volunteers, as well as the fact that CSOs are accepted by MOHs as part of the health system.</p> <p>In addition, the expanding use of electronic HIS in surveillance and real time reporting</p>			<p>Regional Steering Committee Secretariat Ms. Séverine Calza RSC Executive Secretary</p> <p>World Health Organization Office of the WHO Representative in Cambodia PO Box 1217, Phnom Penh, Cambodia Tel: +855 23 216 610 calzas@who.int</p>

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									<p>is proving effective, together with the Regional level data sharing platform.</p> <p>Increased testing activities in countries have led to a larger number of people reached, resulting in higher ABER and declining malaria positivity rates (MPR) and annual parasite incidence rates (API).</p> <p>Data indicate that Lao PDR, Myanmar, Thailand, and Vietnam showed a steady declining trend in malaria cases over the last years. However, for Cambodia there have been challenges due to the disruption of the VMWs scheme but since last year the scheme is fully functional. With this, the total number of cases reported in 2018 is less than that of 2017.</p>			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
10	Prevention, Control and Elimination of Neglected Tropical Diseases (NTDs)	Lao PDR and Myanmar	The project will support control of schistosomiasis, rabies, and anti-microbial resistance.	2019	30.0	30.0	Government of PRC, WHO, Korea International Cooperation Agency (KOICA), Oficina Internacional de Epizootias – World Organization for Animal Health (OIE)	Government of PRC, WHO, Korea International Cooperation Agency (KOICA), Oficina Internacional de Epizootias – World Organization for Animal Health (OIE)	Proposed To be discussed and confirmed/ finalized during the forthcoming WGHC3 meeting (Dec 2019).			
11	Capacity Building in Labor Migration Management	Cambodia, Lao PDR, Myanmar, Viet Nam	The TA will train migration officials and labor attachés in Cambodia, the Lao PDR, Myanmar, and Viet Nam. The training will address vulnerabilities specific to men or women. The TA will be managed by the International Organization for Migration (IOM).	TBD	0.3	0.3	TBD	TBD	Proposed To be discussed and confirmed/ finalized during the forthcoming WGHC-3 meeting (Dec 2019).			
Subtotal (Health and other HRD TA Projects in RIF 2022)					95.8	95.8						

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No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects proposed to be added in RIF 2022												
12	High Level Technology Solutions for Communicable Disease Control in the GMS -additional financing	Cambodia, Myanmar, Lao PDR, Viet Nam	(1) Develop migrant health hotline and pilot it (2) Develop mobile app for migrants and pilot it (3) Develop HMIS model in selected countries	2020		0.2		HLTF— 0.25	Proposed	Cambodia as pilot hub; Myanmar, Lao PDR, and Viet Nam	1. Feasibility and technical analysis with all ministries/countries, reflecting different rules and regulations of each country 2. Carry out analysis of IT flows in selected facilities across GMS, building on the work carried out under e-Korea support, e.g. expand the number and types of facilities' assessment and include other countries.	Azusa Sato, Health Specialist, SEHS/SERD, ADB asato@adb.org
Subtotal (Health and other HRD TA Projects proposed to be added in RIF 2022)						0.2						
Subtotal (Health and other HRD TA Projects)					95.8	96.0						
Total (Health and other HRD Investment and TA Projects)					891.1	911.4						

Urban Development

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																									
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Projects in the RIF 2022																																					
1	Second Greater Mekong Subregion Corridor Towns Development Project	Cambodia, Lao PDR, Viet Nam	<p>The Second Greater Mekong Subregion (GMS) Corridor Towns Development Project is being implemented in seven towns in Cambodia, the Lao People's Democratic Republic (Lao PDR), and Viet Nam. The project has been in operation since 2016 and is slated to end in 2021. It includes livelihood support, development of climate resilience, and institutional capacity building in public investment management. The expected impact of the project will be the transformation of the towns into centers of activity in the GMS economic corridors. The outcome will be improved urban infrastructure that supports economic linkages, strengthens the green-growth potential of participating GMS towns and corridors, and enhances the climate resilience of those towns and corridors.</p> <p>The breakdown of the estimated costs in terms of millions of dollars is as follows:</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Total</th> <th>ADB</th> <th>Govt.</th> <th>Cofinancing</th> </tr> </thead> <tbody> <tr> <td>Cambodia</td> <td>38.1</td> <td>33.0</td> <td>5.1</td> <td>0.0</td> </tr> <tr> <td>Lao PDR</td> <td>52.0</td> <td>37.0</td> <td>5.0</td> <td>10.0</td> </tr> <tr> <td>Viet Nam</td> <td>121.7</td> <td>100.0</td> <td>21.7</td> <td>0.0</td> </tr> <tr> <td>TOTAL</td> <td>211.8</td> <td>170.0</td> <td>31.8</td> <td>10.0</td> </tr> </tbody> </table>	Country	Total	ADB	Govt.	Cofinancing	Cambodia	38.1	33.0	5.1	0.0	Lao PDR	52.0	37.0	5.0	10.0	Viet Nam	121.7	100.0	21.7	0.0	TOTAL	211.8	170.0	31.8	10.0	2015	211.8	211.8	<p>Asian Development Bank (ADB)—170.0</p> <p>Governments of Cambodia, the Lao PDR, and Viet Nam —31.8</p> <p>Association of Southeast Asian Nations (ASEAN) Infrastructure Fund —10.0</p>	<p>Asian Development Bank (ADB)—170.0</p> <p>Governments of Cambodia, the Lao PDR, and Viet Nam —31.8</p> <p>Association of Southeast Asian Nations (ASEAN) Infrastructure Fund —10.0</p>	<p>Ongoing.</p> <p>Cambodia: Comprises of four subprojects: (i) Kampt Wastewater Collection and Treatment and Urban Drainage, (ii) Kampt Solid Waste Landfill, (iii) Sihanoukville Urban Drainage and (iv) Sihanoukville Solid Waste Landfill. Contract awarded for Sihanoukville Urban Drainage. Contract award to Kampt WWTP and Urban Drainage is expected by Q4, 2019. Surveys and geotechnical investigations are underway for the preparation of the detailed designs for the Kampt and Sihanoukville landfill subprojects. It is expected that the designs will be finalized by Q1 2020,</p> <p>Lao PDR: Topographic surveys and geotechnical investigations have been completed and detailed engineering</p>	<p>Located on NSEC, SEC</p> <p>CAM: -Kampt -Sihanoukville</p> <p>LAO: -Houayxay -Luang Namtha</p> <p>VIE: -Bac Giang -Mong Cai -Sa Pa</p>	<p>Urban infrastructure improved in participating towns</p>	<p>CAM: Ministry of Public Works and Transport PSOVICHEANO@ONLINE.COM.KH</p> <p>LAO: Department of Housing and Urban Planning, Project Coordination Unit (PCU), Malychanh SANANIKHOM, Director of PCU, +856 20 55526431, malychanhs@gmail.com</p> <p>VIE: Bac Giang Provincial People's Committee</p> <p>Lao Cai Provincial People's Committee</p> <p>Quang Ninh's People's Committee</p>
Country	Total	ADB	Govt.	Cofinancing																																	
Cambodia	38.1	33.0	5.1	0.0																																	
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Investment projects in RIF 2022 continued

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									<p>design is ongoing. Contracts have been awarded for both Luang Namtha and Houayxay solid waste management packages, and Luang Namtha bridge package.</p> <p>Viet Nam: The overall project progress is about 30%. Construction of wastewater treatment plants in Mong Cai and roads in Sapa and Bac Giang are on-going. Construction of wastewater treatment plants in Sapa and bac Giang will start in 2019. Sapa and Bac Giang have adopted the Strategic Local Economic Development Plans. Trainings on project management and gender is on-going.</p>			
2	Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	The Third GMS Corridor Towns Development Project will expand the geographic scope to include Myanmar. The project is anticipated to develop the cities of Mawlamyine, in Mon State, and Hpa-An and Myawaddy, in Kayin State, as competitive economic nodes along the GMS East-West Economic Corridor (EWEC). The expected impact of the project is increased activity along the GMS EWEC. The outcome will be improved access to sustainable urban services in the project cities.	2018	86.5	116.9	ADB—80.0 Government of Myanmar—6.53	ADB—80.0 NEDA—24.3 GCF, TICA Grant—4.9 Government of Myanmar—7.7	Ongoing. No contract has been awarded. Recruitment of PIAC is ongoing. Expected contract award within September 2019.	Mawlamyine in Mon State and Hpa-An and Myawaddy in Kayin State EWEC	<ol style="list-style-type: none"> 1. Urban planning improved; 2. Basic social infrastructure upgraded; and 3. Urban management capacity strengthened 	Ms. Khaing Khaing Soe, Department of Urban Housing and Development, Ministry of Construction khaingkhaing.s@goolemail.com

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																				
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)																								
3	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia, Lao PDR	<p>The proposed project will support the governments of Cambodia and the Lao PDR in their efforts to enhance the competitiveness of towns along</p> <p>GMS economic corridors. The project will result in improved urban services in the participating towns due to investments in basic urban infrastructure such as drainage, sanitation, solid waste management facilities; urban roads; riverbank protection structures; and public gardens. The project will also enhance climate resilience and will be in line with ADB's "3 Es" of economy, environment, and equity, as outlined in its Urban Operational Plan.</p> <p>The breakdown of the estimated costs in terms of millions of dollars is as follows:</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Total</th> <th>ADB</th> <th>Govt</th> <th>Cofinancing</th> </tr> </thead> <tbody> <tr> <td>Cambodia</td> <td>88.5</td> <td>80.0</td> <td>8.0</td> <td>0.5</td> </tr> <tr> <td>Lao PDR</td> <td>54.1</td> <td>48.0</td> <td>6.1</td> <td>0.0</td> </tr> <tr> <td>TOTAL</td> <td>142.6</td> <td>128.0</td> <td>14.1</td> <td>0.5</td> </tr> </tbody> </table>	Country	Total	ADB	Govt	Cofinancing	Cambodia	88.5	80.0	8.0	0.5	Lao PDR	54.1	48.0	6.1	0.0	TOTAL	142.6	128.0	14.1	0.5	2018	142.6	142.6	ADB—128.0 Government of Cambodia—8.0 Government of Lao PDR—6.1 Cofinancing—0.5	ADB—128.0 Government of Cambodia—8.0 Government of Lao PDR—6.1 Cofinancing—0.5	<p>Ongoing.</p> <p>Cambodia: Contract for project management consultant was awarded in June 2019.</p> <p>Lao PDR: The Project Implementation Consultants have been mobilized in April 2019. Currently preparing the detailed engineering design for the first civil works package (i.e. solid waste management) to be tendered in Q4 2019.</p>	<p>Cambodia</p> <ul style="list-style-type: none"> -Kampong Cham -Kratie -Stung Treng <p>SEC</p> <p>Lao PDR</p> <ul style="list-style-type: none"> -Paksan -Thakhek <p>NSEC</p>	<p>1. Adequate essential urban infrastructure and services in the project towns.</p> <p>2. strengthened institutional capacities for urban development</p>	Department of Housing and Urban Planning, Project Coordination Unit (PCU), Malychanh SANANIKHOM, Director of PCU, +856 20 55526431, malychanhs@gmail.com
Country	Total	ADB	Govt	Cofinancing																												
Cambodia	88.5	80.0	8.0	0.5																												
Lao PDR	54.1	48.0	6.1	0.0																												
TOTAL	142.6	128.0	14.1	0.5																												
4	Yangon Urban Services Improvement Project	Myanmar	The proposed project will improve urban environment and public health conditions in Yangon City through improved urban infrastructure and strengthened urban management capacity.	2020	100.0	194.2	ADB—100.0	ADB—185.0 TBD—9.2	Proposed.	Yangon City EWEC	<p>Raw water transmission system constructed</p> <p>Sewerage system constructed</p> <p>Urban management capacity strengthened</p>	FERD, MPI ferdsection@gmail.com																				

Continued on next page

Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	Second Mandalay Urban Services Improvement Project	Myanmar	The proposed project will improve the urban environment and public health conditions in Mandalay city through the improvement of urban infrastructure and services.	2021	165.0	165.0	ADB—150.0 Cofinancing—15.0	ADB—150.0 Cofinancing—15.0	Proposed.	Mandalay NSEC	1. Urban infrastructure upgraded 2. Urban service management capacity strengthened	FERD, MPI ferdsection@gmail.com
6	Livable Cities Investment Project (Formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Cambodia	The project will concentrate supporting urban planning and infrastructure in key economic, administrative and tourism towns in Cambodia, such as Battambang, Poipet, Kampot and Bavet, which have been identified as being on the cusp of economic transformation. Investments are required to fund the infrastructure gap and provide opportunities to encourage growth in the region. A long term infrastructure master plan, which will include assessment of land use plans, urban development policies and staging mechanisms for the provision of water supply, sanitation, solid waste management and drainage infrastructure, will be included as part of the project, as well as an assessment of governance arrangements and institutional effectiveness.	2021	240.0	207.0	ADB—240.0	ADB—180.0 Government of Cambodia—27.0	Proposed.	i) Poipet; (ii) Bavet; (iii) Kampot; and (iv) Battambang SEC	Output 1: Urban infrastructure improved Output 2: Institutional effectiveness and governance improved Output 3: Improved policy and regulatory environment	Ministry of Public Works and Transport Mr. Vong Pisith, Deputy Director General, Vong_pisith@yahoo.com
7	Hekou Urban Infrastructure and Public Services Improvement Project	People's Republic of China (PRC)	The proposed project will improve urban infrastructure and public services in the border town of Hekou, in Yunnan Province, adjacent to the Vietnamese town of Lao Cai. In terms of linkages with national and/or regional strategies, the Hekou–Lao Cai Border Economic Zone is a critical node on the GMS North–South Economic Corridor (NSEC) and on the eastern branch of the Pan-Asia Railway Network; it is also one of the key border economic zones supported by the Chinese.	TBD	175.3	175.3	ADB Government of the PRC	ADB Government of the PRC	Proposed.	Hekou, Yunnan Province NSEC	The outputs will include the construction and/or rehabilitation of: (i) infrastructure for 44 kilometers (km) of urban roads,	Mr. LI Rui Office of the GMS National Coordinator, PRC liruimof@139.com

Continued on next page

Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			government. Hekou is a national land port, Yunnan's closest one to the Pacific Ocean. It is also the only land port in Yunnan Province with railway transportation								(ii) four schools (a kindergarten, elementary, middle, and high school), (iii) a cultural exchange center, and (iv) a hospital.	
Subtotal (Urban Development Investment Projects in RIF 2022)					1,121.2	1,212.7						
Projects proposed to be added in RIF 2022												
8	Livable Cities Investment Program (MFF) (Formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Lao PDR	The project will support urban planning and infrastructure in any of the recently elevated three cities: Luang Prabang, Pakse and Khaysone (Savanakhet). As part of the project, a long-term master plan which will include assessment of land use planning, urban development policies, and staging mechanisms for the provision of inclusive water supply, sanitation, solid waste management infrastructure, as well as flood risk management systems will be prepared. In addition, the project will look into planning, governance and institutional effectiveness.	2021		150.0		ADB—105.0 Cofinancing (TBD)—45.0	Proposed. Tranche 1 estimated cost is \$50.0 million.	Luang Prabang, Pakse and Khaysone (Savanakhet). NSEC SEC	Output 1: Urban infrastructure improved Output 2: Institutional effectiveness and governance improved Output 3: Improved policy and regulatory environment	Department of Housing and Urban Planning, Project Coordination Unit (PCU), Malychanh SANANIKHOM, Director of PCU, +856 20 55526431, malychanhs@gmail.com

Continued on next page

Investment projects proposed to be added in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
9	Yangon Urban Services Improvement Project – Phase 2	Myanmar	The project will enhance the water treatment plant capacity, construct clear water transmission systems, and undertake non-revenue water reduction program in select zones of Yangon city.	2022		165.0		ADB—150.0 Cofinancing (TBD —15.0)	Proposed.	Yangon City EWEC	Raw water transmission system constructed Sewerage system constructed Urban management capacity strengthened	Mr. Aung San Win, Head of Engineering Department (Water and Sanitation), Yangon City Development Committee Tel: +95 9 5053946
Subtotal (Urban Development Investment Projects proposed to be added in RIF 2022)						315.0						
Subtotal (Urban Development Investment Projects)						1,121.2	1,527.7					

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in the RIF 2022												
1	PPTA for Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	This project preparatory technical assistance (PPTA) is formulating the Third GMS Corridor Towns Development Project. The subprojects include feasibility studies, and assessment of all safeguard requirements. This project is helping the participating towns to consolidate their urban-planning and investment policies into a strategic local economic development plan. The PPTA is also preparing capacity development and training plans for the local or provincial authorities involved.	2014	1.5	1.5	ADB—1.0 Cofinancing —0.5	ADB—1.0 Cofinancing —0.5	Completed. TA closed on 3 September 2018	EWEC	Feasibility studies for Corridor Towns Development Project III subprojects	FERD, MPI ferdsection@gmail.com
2	Greater Mekong Subregion: Capacity Development for Economic Zones in Border Areas	All GMS countries	The revised outcome of the technical assistance (TA) is strengthened capacity of border institutions to prepare for future GMS corridor towns development projects. This will improve the GMS approach to corridor town development, create a pipeline for such projects in the future, and facilitate the preparation of these projects.	2015	0.9	0.9	ADB—0.5 Cofinancing —0.4	ADB—0.5 Cofinancing —0.4	Completed TA closing date on 4 Apr 2019		<p>1. Scoping study of potential border economic zone development in the GMS is completed.</p> <p>2. Comprehensive institutional development and capacity development program is developed and implemented.</p> <p>3. Flagship program for the Fifth GMS Corridor Towns development Project is defined and applied.</p>	

Continued on next page

Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia, Lao PDR	The TA formulated the Fourth GMS Corridor Towns Development Project in Lao PDR and Cambodia. The TA finalized feasibility studies, and assessment of all safeguard requirements.	2016	1.8	1.8	ADB—1.8	ADB—1.8	Completed. Complete feasibility studies. Signed MOU.	Located on SEC and NSEC	1 feasibility studies 2 assessment of all safeguard requirements	Department of Housing and Urban Planning, Project Coordination Unit (PCU), Malychanh SANANIKHOM, Director of PCU, +856 20 55526431, malychanhs@gmail.com
4	PPTA for Second Mandalay Urban Services Improvement Project	Myanmar	The TA will prepare the proposed loan and grant project scheduled for ADB approval in 2019.	2017	1.0	1.0	ADB—0.75 Cofinancing (Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility) —0.225	ADB—0.75 Cofinancing (Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility) —0.225	Ongoing. Approved on 20 Jul 2017. Implementation is on hold.	Mandalay NSEC	The TA outputs will be (i) sector and subsector analyses, (ii) MUSIP2 outputs prioritized and identified, (iii) feasibility of the proposed investments for priority infrastructure construction and improvements determined, and (iv) institutional capacity strengthening and public awareness programs prepared.	Mandalay Regional Government Ye Lwin, Mayor, Mandalay City Development Committee mayor@mandalaycity.info
Subtotal (Urban Development TA Projects in RIF 2022)					9.7	5.2						

Continued on next page

Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact	
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)					
Projects proposed to be added in RIF 2022													
5	Urban Infrastructure improvement project	Myanmar	<p>Project is proposed to implement the measures to control the flooding disaster in the Bago Region</p> <p>Justification: Support following strategic thrusts/ operational priorities/sector strategy-Regional sharing of best practices on CRV assessment and adaptation; Technical support for strengthening CRV and DRM assessments in investment project planning;Project preparation support including: (i) climate proofing rural infrastructure investments disaster risk financing options</p>	TBD		TBD		TBD	Proposed by Myanmar on 15 August 2019.	Bago, Myanmar NSEC	Bago region mostly suffers flooding in rainy season and by investing in this area, the region will become better resilient and protect the various loss of flooding	Daw Aye Aye Myint Deputy Director General Department of Urban and Housing Development ayengemmt@gmail.com 09448548951	
6	Regional Development Project	Myanmar	<p>Project is proposed to integrate the development with the development of Dawai SEZ</p> <p>Justification: Support following strategic thrusts/ operational priorities/sector strategy-Identify key urban centers along GMS corridors and urban systems; Develop multisector spatial plans for high-priority urban areas; Provide and upgrade infrastructure in GMS corridor towns and in other key urban areas</p>	TBD		TBD		TBD	Proposed by Myanmar on 15 August 2019.	Dawei, Myanmar SEC	Regional development align with the development of SEZ	Deputy Director General Department of Urban and Housing Development ayengemmt@gmail.com 09448548951	
7	Urban Infrastructure improvement project	Myanmar	<p>Project is proposed to implement the urban services improvement</p> <p>Justification: Support following strategic thrusts/ operational priorities/sector strategy- Identify key urban centers along GMS corridors and urban systems; Identify key urban centers along GMS corridors and urban systems.</p>	TBD		TBD		TBD	Proposed by Myanmar on 15 August 2019.	Kyaikhto, Myanmar EWEC		Deputy Director General Department of Urban and Housing Development ayengemmt@gmail.com 09448548951	
Subtotal (Urban Development TA Projects proposed to be added in RIF 2022)						TBD							
Total (Urban Development Investment and TA Projects)						1,130.9	1,532.9						

Other Multisector/Border Economic Zones

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																									
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)																													
Projects in RIF 2022																																					
1	Guangxi Regional Cooperation and Integration Promotion Investment Program, MFF tranches 1-3 (formerly Joint PRC-Viet Nam Cross-Border Economic Zones)	People's Republic of China (PRC)	<p>The program will help the Guangxi Zhuang Autonomous Region of the PRC implement its strategies and action plans for regional cooperation and integration with countries of the Association of the Southeast Asian Nations (ASEAN), particularly those in the Greater Mekong Subregion (GMS). This multitranche financing facility (MFF) will generate five major outputs: (i) sustainable development of small and medium-sized enterprises (SMEs); (ii) cost-competitive, safe, and efficient cross-border financial transactions and investments; (iii) e-commerce to facilitate access to markets; (iv) key infrastructure- and trade-related services; (v) improved cross-border connectivity.</p> <p>The breakdown of the cost estimates and years of approval is as follows:</p> <table border="1"> <thead> <tr> <th>Tranche</th> <th>Year</th> <th>Total</th> <th>ADB</th> <th>Govt.</th> </tr> </thead> <tbody> <tr> <td>Tranche 1</td> <td>2016</td> <td>280.0</td> <td>130.0</td> <td>150.0</td> </tr> <tr> <td>Tranche 2</td> <td>2018</td> <td>440.0</td> <td>180.0</td> <td>260.0</td> </tr> <tr> <td>Tranche 3</td> <td>2020</td> <td>460.0</td> <td>140.0</td> <td>620.0</td> </tr> <tr> <td>TOTAL</td> <td></td> <td>1,180.0</td> <td>450.0</td> <td>730.0</td> </tr> </tbody> </table>	Tranche	Year	Total	ADB	Govt.	Tranche 1	2016	280.0	130.0	150.0	Tranche 2	2018	440.0	180.0	260.0	Tranche 3	2020	460.0	140.0	620.0	TOTAL		1,180.0	450.0	730.0	2016	890.0	1,180.0	Asian Development Bank (ADB)—450.0 Government of the PRC—440.0	Asian Development Bank (ADB)—450.0 Government of the PRC—730.0	Ongoing Tranche 1 is under implementation since August 2017. Under the investment loan, the bidding documents for all civil works packages were advertised in 2019; key goods and consultancy services packages are also under preparation. Tranche 2 was approved on 4 April 2018, Tranche 3 is planned for approval in 2021 (Firm) under the COBP, 2019-2021.	Nanning, Qinzhou, Fangchenggang, Chongzuo, Baise, NSEC	<p>1. sustainable development of small and medium-sized enterprises (SMEs) enhanced;</p> <p>2. Cross-border financial trade and investment improved;</p> <p>3. cross-border e-commerce platform developed;</p> <p>4. cross-border economic cooperation, key infrastructure and commerce service for BEZs improved;</p> <p>5. cross-border transportation, information connectivity and policy coordination enhanced.</p>	Su Xuanyun Mr. Wu Tiancheng, Division Director, Foreign Capital Utilization and Overseas Investment, Guangxi DRC. His email contact information is wzc4415@163.com
Tranche	Year	Total	ADB	Govt.																																	
Tranche 1	2016	280.0	130.0	150.0																																	
Tranche 2	2018	440.0	180.0	260.0																																	
Tranche 3	2020	460.0	140.0	620.0																																	
TOTAL		1,180.0	450.0	730.0																																	

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
2	Support to Border Areas Development Project	Viet Nam	The project is supporting the Cambodia–Laos– Viet Nam (CLV) Development Triangle Area objectives of facilitating the flow of goods, people, and investment capital; and of exploring agricultural, forestry, and tourism potential by accelerating economic growth within Viet Nam’s Development Triangle Area (VDTA). Outputs will include (i) rehabilitated road infrastructure in five VDTA provinces; (ii) developed VDTA plans and facilities for transport and trade facilitation, with a focus on inclusive growth; and (iii) strengthened institutional capacity for VDTA planning, project design, and implementation, and for resource management.	2016	122.1	122.1	ADB—106.5 Government of Viet Nam—15.6	ADB—106.5 Government of Viet Nam—15.6	Ongoing Due to delayed allocation of ODA budget by central government, contract awards of civil works packages will be delayed by nearly 2 years, i.e. the first contract award is expected only in Q4 2019.	Binh Phuoc, Dak Nong, Gia Lai, Kon Tum, Dak Lak	1. Road infrastructure in five VDTA provinces rehabilitated 2. VDTA plans and facilities to facilitate transport and trade with a focus on inclusive growth developed 3. Institutional capacity for VDTA investment planning, project design and implementation, and resource management strengthened	Binh Phuoc Provincial People’s Committee WEB@BINHPHUOC.GOVVN Dak Lak Provincial People’s Committee UBND@DAKLAK.GOVVN Dak Nong Provincial People’s Committee VPUBND@DAKNONG.GOV.VN Gia Lai Provincial People’s Committee VPUBNDTINH@GIALAI.VN Kon Tum Provincial People’s Committee VPUBND@KONTUM.GOVVN
3	Yunnan–Lincang Border Economic Cooperation Zone Development Project	PRC	The project will address cross-border trade capacity, border connectivity, and urban and social development issues in the Cangyuan Wa, Gengma Dai and Wa, and Zhenkang counties in Lincang Prefecture; and support Yunnan Province in enhancing regional cooperation and integration (RCI) under the Greater Mekong Subregion (GMS) program, focusing on economic corridor development. It is expected to enhance RCI in the Shan border province of Myanmar by providing benefits to Myanmar nationals who trade, work, and use social services in the project counties.	2018	402.8	402.8	ADB—250.0 Government of the PRC—152.8	ADB—250.0 Government of the PRC—152.8	Ongoing ADB loan financing was approved on 10 Dec 2018, signed on 14 April 2019	Lincang, Yunnan Province NSEC	1. Cross border trade capacity improved 2. Integrated urban environment infra in Mengding and Qingshuihem National port areas improved	Lincang Municipal Government No. 350, Shiji Road, Fengxiang Sub-district, Linxiang District, Lincang City, Yunnan Province

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											3. Social Infra and services improved 4. Institutional capacity of involved agencies improved.	
4	Construction of a Phnom Penh New Port Special Economic Zone	Cambodia	The project will comprise the first phase of development of the Phnom Penh New Port Special Economic Zone (SEZ). It will involve an area of 143 hectares (ha), of which 106.0 ha will be allocated to long-term leases to manufacturers, 3.0 ha to apartments and shops, 2.7 ha to a logistics center, and the remainder to service facilities. The pilot phase is also intended to induce further SEZ development (more than 600 ha) as a means of attracting private sector investment.	TBD	60.0	60.0	To be determined (TBD)	TBD	Proposed	Phnom Penh SEC	Phnom Penh New Port Special Economic Zone constructed and developed	Mr. Suon Sophal Office of the GMS National Coordinator, Cambodia sophalsuon@gmail.com
5	Border Trade Zone in Muse, Kampitee, Shinshwehaw	Myanmar, PRC	To improve the competitiveness of the border area cities with following proposed components: (1) Provide and upgrade infrastructure in GMS corridor towns and in other key urban areas; (2) Identify or update key border areas and priority border points based on reconfigured GMS economic corridors; and (3) Develop border zones.	TBD	TBD	TBD	TBD	TBD	Proposed by Myanmar.	Muse, Kampitee, Shinshwehaw NSEC	(1) Provide and upgrade infrastructure in GMS corridor towns and in other key urban areas; (2) Identify or update key border areas and priority border points based on reconfigured GMS economic corridors; and (3) Develop border zones	FERD, MPI ferdsection@gmail.com
Subtotal (Other Multisector/Border Economic Zones Investment Projects in RIF 2022)					2,102.7	1,764.9						

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No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Project proposed to be added RIF 2022												
6	Vientiane Saysettha Development Zone Project (Phase II Infrastructure and Supporting Construction Project)	Lao PDR	Project covers an area of 6.14 square kilometers. Infrastructure construction include land leveling, main road paving, integrated pipe network, lighting facility, and transformer substation. Supporting construction include standardized plant, dormitory, enterprise service center, living and service facilities and recreation and sports center.	2019		300.0		PRC—300.0	Ongoing. Submitted by PRC on 16 Oct 2019 as a supplementary project.	Lao PDR NSEC		Yunnan Provincial Overseas Investment Co., Ltd. of YCIH.Gu Feng, Tel:856205 8491283
Subtotal (Other Multisector/Border Economic Zones Investment Projects proposed to be added in RIF 2022)						300.0						
Subtotal (Other Multisector/Border Economic Zones Investment Projects)					2,102.7	2,064.9						

Technical Assistance Projects

Projects in RIF 2022												
1	Strengthening the Coordination of the GMS Program	All GMS countries	The regional policy and advisory technical assistance (TA) will build on earlier regional TA providing coordination support to the GMS program to help member countries strengthen their regional cooperation and integration. The TA has been developed in consultation with GMS national secretariats in all countries, which coordinate public and private sector as well as civil society participation in the GMS program in their respective countries.	2010	6.0	6.0	ADB—5.95	ADB—5.95	Completed in 2018.	NSEC EWEC SEC	The TA's expected outputs were: (i) preparation of a new GMS 10-year Strategic Framework (2012-2022); (ii) GMS working groups, corridor development forums, and other high-level meetings to promote the planned and prepared multi-sector approach;	GMS Secretariat Southeast Asia Department, ADB gms@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											(iii) increased capacity of GMS national secretariats; (iv) new and emerging information and knowledge products for GMS prepared and disseminated; and (v) structured information exchange and dialogue between ADB and development partners.	
2	Preparatory TA for Guangxi Regional Cooperation and Integration Promotion Investment Program	PRC	The PPTA has been (i) conducting sector reviews to identify the key issues to be addressed by the investment program; (ii) identifying subprojects covered by the first tranche of the MFF, and helped the executing agency prepare preliminary feasibility studies; (iii) doing pre-implementation work for the investment program; (iv) assisting the executing agency and implementing agencies in assessing preliminary engineering designs and specifications, verifying detailed cost estimates, etc.; (v) suggesting key features for the contractual agreements and/or other necessary legal or institutional arrangements; and (vi) helping prepare the facility's administration manual.	2016	1.2	1.2	ADB-1.0 Government of PRC- 0.2	ADB- 1.0 Government of PRC- 0.2	Completed TA 9120 closed on 30 November 2017.	Fangchenggang, Chongzuo, Baise, Qinzhou NSEC	(i) sector reviews conducted (ii) subprojects in the first tranche of the MFF identified and preliminary feasibility studies prepared (iii) pre-implementation work for the investment program conducted,	Bo An Public Management Specialist Public Mgt., Financial Sector and Regional Cooperation Division ADB East Asia Department boan@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											(iv) assisted the executing agency and implementing agencies in assessing preliminary engineering (v) suggested key features in contractual agreements or other necessary legal or institutional arrangements, and (vi) contributed to the preparation of the facility administration manual.	
3	Policy Coordination and Planning of Border Economic Zones of the People's Republic of China and Viet Nam (formerly Joint Feasibility Study on	PRC, Viet Nam	This policy and advisory technical assistance (TA) is enhancing the capacity of the governments of the PRC and Viet Nam to develop, manage, negotiate, and promote border economic zones (BEZs) in their border areas. Outputs will include (i) policy recommendations for coordinated BEZs; (ii) strengthened development and management of the BEZs, along with public-private coordination; and (iii) capacity building of government stakeholders.	2017	0.4	0.4	PRC Regional Cooperation and Poverty Reduction Fund- 0.4	PRC Regional Cooperation and Poverty Reduction Fund- 0.4	Completed. TA 9293 terminated on 29 March 2019, the final closing date is 19 June 2019. The TA inception workshop in Hanoi was held jointly with Viet Nam National University, where experts presented ongoing academic research on the subject area in Viet Nam.	PRC Nationwide and Viet Nam Nationwide	1. Policy recommendations for coordinated development and economic integration for BEZs; 2. support on cooperative mechanism, cooperation in public and	Bo An Public Management Specialist Public Mgt., Financial Sector and Regional Cooperation Division ADB East Asia Department boan@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
	Cross-Border Economic Zones in the PRC and Viet Nam)										private-invested area of BEZs; 3. capacity connection in key area.	
4	PPTA for Yunnan–Lincang Cross-Border Economic Cooperation and Integration Promotion Investment Program	PRC	This project preparatory technical assistance (PPTA) will arrange the proposed loan for a project focused on the PRC–Myanmar border, with a scope that will include: (i) cross-border economic cooperation infrastructure (water supply, wastewater, solid waste, roads), (ii) border facilities, (iii) hospitals, (iv) schools (primary and vocational); and (v) capacity development.	2018	0.5	0.5	ADB	ADB	Completed.	Lincang, Yunnan NSEC	Proposed loan investment project prepared	Lincang Municipal Government No. 350, Shiji Road, Fengxiang Sub-district, Linxiang District, Lincang City, Yunnan Province
5	Sustaining the Gains of Regional Cooperation in the Greater Mekong Subregion	All GMS Countries	The knowledge and support technical assistance (TA) will support countries in the Greater Mekong Subregion (GMS) in transforming the GMS Program into a more effective regional cooperation platform that adds value to member countries' national development strategies and benefits the local populations of member countries. ¹ The TA is aligned with the GMS Economic Cooperation Program Strategic Framework, 2012–2022; and ADB's Operational Plan for Regional Cooperation and Integration, 2016–2020. ² GMS countries strongly support the proposed outputs and activities.	2017	2.0	2.0	ADB—2.0	ADB—2.0	Ongoing since October 2017 and revised closing date is 31 March 2020 The TA supported the organization and conduct of the 10th Economic Corridors' Forum and GMS Senior Official's Meeting (SOM) in Nay Pyi Taw, Myanmar on 12–13 December 2018.		(i) GMS coordination and decision-making mechanisms strengthened. (ii) Project identification, resource mobilization, and results monitoring mechanism improved. (iii) Knowledge-based strategic planning enhanced.	GMS Secretariat Southeast Asia Department, ADB gms@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									Provided secretariat support to (or supported organizing) various GMS Working Group (WG) meetings that are venues to discuss and firm up GMS sector strategies, plans and, projects. The TA supported/ currently supporting the production of various GMS knowledge products.			
6	Research on China- Indochina Peninsula Economic Corridor Transportation and Business Planning	GMS countries	Beginning in Nanning, the China-Indochina Peninsula Economic Corridor passes through seven countries (PRC, Viet Nam, Lao PDR, Cambodia, Thailand, Malaysia, and Singapore). The corridor could impact Myanmar via its connection to the GMS East-West Economic Corridor (EWEC). Although the corridor has transportation capacity, the associated infrastructure is not good enough, and economic development there is still insufficient. The proposed project aims to study the status of the corridor's transportation infrastructure and to propose key projects to address any challenges. The research will also generate suggestions regarding the planning of the business environment and the change from a transportation corridor into an economic corridor.	TBD	4.2	4.2	TBD	TBD	Proposed	EWEC		

Continued on next page

Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
7	Feasibility Study for Thakhek Special Economic Zone	Lao PDR, Thailand	The Thakhek Special Economic Zone (SEZ) is located near the Third Mekong-Lao–Thai Friendship Bridge, and thus could possibly serve as a logistics center. The TA would support studies conducted by the governments of the Lao PDR and Thailand to determine the zone’s potential for facilitating flows of goods and services between the two countries and among the other GMS countries, and to come up with a strategy for realizing that potential.	TBD	1.5	1.5	TBD	TBD	Proposed	EWEC	Strategy for Thakhek SEZ to be developed to guide investment in trade and logistics.	Special Economic Zone promotion and management Office (SEZO), MPI. Ms. Phanchinda LENGSAVAD, DDG, phanchinda.sez@gmail.com Mr. Phonpaseuth HAO-ONECHANH, phonepaseuth81@gmail.com
8	Training and Technical Assistance for Implementing Cross-Border Economic Zone between Myanmar and the PRC	Myanmar, PRC	The ministries of commerce of Myanmar and the PRC signed a memorandum of understanding (MOU) on the establishment of the Myanmar–PRC Border Economic Cooperation Zone. To carry out the responsibilities mentioned in the MOU, Myanmar needs to set up a joint working group composed of competent government officials. Myanmar should recruit these officials from line ministries, and train them to be able to formulate a master development plan, design a structure for cross-border administration, create an investor-friendly business environment, and enhance private-public partnerships (PPPs). To accomplish this, Myanmar needs to design a 3-month training course that would include course work and field trips to SEZs in Cambodia; Hong Kong, China; Japan; and the Lao PDR. It is proposed that 20 officials undergo this training.	TBD	0.2	0.2	ADB	ADB	Proposed by Myanmar Expected year of commencement: Jan 2020 Expected year of completion: Dec 2020	NSEC	Myanmar officials trained in setting up and implementing cross border economic zone between Myanmar and PRC	Daw Than Than Naing, Assistant Director Department of Trade Ministry of Commerce Ph: +95 67 408171 mobile: +95 9 250803363 Fax: +95 67 408417 email: thghan2naing2014@gmail.com

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
9	Training and Technical Assistance for Implementing Cross- Border Economic Zone framework plan between Lao PDR and the PRC	Lao PDR, PRC	The Government of Lao PDR and the PRC signed a Joint Framework Plan for the Boten – Mohan Economic Cooperation Zone between Lao PDR – PRC in 2015, and Brief Master Plan for Border Economic Cooperation Zone in 2016. To achieve the objectives of connected infrastructure, facilitating cross border movement of goods, services and peoples while ensuring effective and efficient administration and monitoring system, the Lao PDR needs technical assistance and financial support to map out different procedures and regulations as well as training for relevant staff members at central and local levels to accomplish the objectives. The training could be a combination of course work and field trips to other cross border SEZs such as China-Kazakhstan cross border zone and other SEZs that have played significant roles in terms of facilitating border trade and cooperation.	2018	2.0	2.0	TBD	TBD	Proposed	Boten Lao PDR-Mohan PRC Border Economic Zone NSEC	Model of Cross border cooperation zone established, Facilitation on the flow of goods, services and people	Special Economic Zone promotion and management Office (SEZO), MPI. Ms. Phanchinda LENGSAVAD, DDG phanchinda.sez@gmail.com
Subtotal (Other Multisector/ Border Economic Zones TA Projects)						18.0	18.0					
Subtotal (Other Multisector/ Border Economic Zones Investment and TA Projects proposed to be added in RIF 2022)												0.0
Total (Other Multisector/ Border Economic Zones Investment and TA Projects)						2,120.7	2,082.9					

Tourism

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																				
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)																								
Project in RIF 2022																																
1	GMS Tourism Infrastructure for Inclusive Growth	Cambodia, Lao People's Democratic Republic (Lao PDR), Viet Nam	<p>The project accelerates inclusive economic growth along targeted segments of the Greater Mekong Subregion (GMS) economic corridors by improving tourism-related access infrastructure and environmental conditions at cross-border tourism centers, and by strengthening the capacity of public-private destination management organizations.</p> <p>The project supports (i) improvements in the last-mile tourism access infrastructure, (ii) enhanced environmental services at cross-border tourism centers, (iii) strengthened institutional capacity for promoting and managing inclusive tourism growth, and (iv) effective project implementation and knowledge management. Project areas include contiguous segments of the Southern Coastal Corridor in Cambodia and Viet Nam, the Southern Corridor in Viet Nam, the Central Corridor in the Lao PDR, and the Eastern Corridor in northern Viet Nam.</p> <p>The estimated costs in millions of dollars is as follows:</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Total</th> <th>ADB</th> <th>Government</th> </tr> </thead> <tbody> <tr> <td>Cambodia</td> <td>18.77</td> <td>18.0</td> <td>0.77</td> </tr> <tr> <td>Lao PDR</td> <td>43.57</td> <td>40.0</td> <td>3.57</td> </tr> <tr> <td>Viet Nam</td> <td>55.08</td> <td>50.0</td> <td>5.08</td> </tr> <tr> <td>TOTAL</td> <td>117.42</td> <td>108.0</td> <td>9.42</td> </tr> </tbody> </table>	Country	Total	ADB	Government	Cambodia	18.77	18.0	0.77	Lao PDR	43.57	40.0	3.57	Viet Nam	55.08	50.0	5.08	TOTAL	117.42	108.0	9.42	2014	117.4	117.4	Asian Development Bank (ADB)—108.0 Governments of Cambodia, the Lao PDR, and Viet Nam—9.4	Asian Development Bank (ADB)—108.0 Governments of Cambodia, the Lao PDR, and Viet Nam—9.4	<p>Ongoing Cambodia: as of 30 June 2019, overall progress is 72%. Kampot International Ferry Port being constructed; Kep Crab Market Environment Improvements completed. Tourism planning and capacity building activities on-track.</p> <p>Lao PDR: as of 30 June 2019, overall progress is 86.3%. 3 of 4 civil works contracts awarded; road and port improvements in Luang Prabang and Khammouane substantially completed; road improvements in Oudomxay ongoing. Tourism planning and capacity building activities on-track</p> <p>Viet Nam: 7 of 8 civil works contracts (road improvements, wastewater treatment, market facilities) awarded and ongoing. Tourism planning and capacity building activities generally on-track, with some delays.</p>	<p>Cambodia: Koh Kong, Kampot and Kep GMS Southern Coastal Corridor</p> <p>Lao PDR: Luang Prabang, Oudomxay, Khammouane and Champasak GMS Central Corridor</p> <p>Viet Nam: Dien Bien, Lao Cai, Ha Tinh, Tay Ninh and Kien Giang provinces NSEC</p>	(i) 127 km of provincial and district access roads to tourist sites and two ferry ports improved/constructed, (ii) 4,000 m ³ /day wastewater treatment capacity installed at tourist sites, (iii) about 30 hectares of land in tourist areas protected from flooding; (iv) about 1,400 entrepreneurs receive business support services; and (v) 12 destination management organizations strengthened.	Mr. Steven Schipani, SERD/ADB sschipani@adb.org
Country	Total	ADB	Government																													
Cambodia	18.77	18.0	0.77																													
Lao PDR	43.57	40.0	3.57																													
Viet Nam	55.08	50.0	5.08																													
TOTAL	117.42	108.0	9.42																													

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
2	Construction of the Sino-Vietnamese Detian-Ban Gioc Waterfalls International Tourism Cooperation Zone	PRC, Viet Nam	<p>The project aims to develop tourism infrastructure and support service facilities in the Sino-Vietnamese Detian-Ban Gioc Waterfalls International Tourism Cooperation Zone, which is located in the GMS Northern Economic Corridor. The project includes the construction or renovation of river ports, frontier trading facilities, highways, water supply systems, electricity supply systems, and sewage and garbage-disposal systems, as well as support for village-based development within the Detian Tourism Area.</p> <p>The PRC has suggested including improvements in the local rural environment and ecosystem, and the construction of a tourist center, parking lots, sightseeing walkways, green bicycle paths, a Sino-Vietnamese museum, and a center for Sino-Vietnamese intercultural communication.</p>	2016	200.0	200.0	Governments of the PRC and Viet Nam	Governments of the PRC and Viet Nam	<p>Ongoing</p> <p>Highway network to Detian in Guangxi Province under construction.</p> <p>Govt of Viet Nam has approved the general development plan/construction project of Ban Gioc waterfall tourism site and detailed plan for the site's central area, currently seeking financing to develop the area.</p>	Guangxi Zhuang, PRC, Cao Bang, Viet Nam (Detian PRC-Ban Gioc Viet Nam) NSEC	See description.	<p>Mr. LI Rui Office of the GMS National Coordinator, PRC liruimof@139.com</p> <p>Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmpi@gmail.com</p>
3	Strengthening Tourism Vocational Training Institutions Program (*Skills Development in the Tourism and Hospitality Sector in Lao PDR-Skills for Tourism)	Cambodia, PRC, Lao PDR, Thailand, Viet Nam Lao PDR	<p>The program is establishing vocational training institutions, strengthening teaching capacity, and developing curriculum and training materials that harmonize with ASEAN and PRC standards. It is also promoting exchanges and cooperation among GMS tourism schools and university programs to promote better tourism management and hospitality services.</p> <p>*The project is a sub-component of Strengthening Tourism Vocational Training Institutions Program that supports improvement in tourism/hospitality vocational education and training through enhanced quality, increased scale of provision, financing, and good governance. A particular emphasis of the project is to support people from disadvantaged backgrounds to acquire the skills needed to work directly or indirectly in</p>	2016	70.0	70.0		<p>Luxembourg—8.6 (7.5 million EUR) Switzerland—8.6 (7.5 million EUR) In-kind contribution from Lao PDR</p>	<p>Ongoing</p> <p>Implementation of 5-year project began in September 2016. Project is generally on track. Disbursement is expected to be at approx. 9m EUR by end of 2019 (60% disbursement against 62.5% time elapsed)..</p>	All provinces and Vientiane Capital, with a higher concentration of support/activities in key tourism locations.	5,000 people participate in a tourism/hospitality vocational education and training program. 75% of graduates are employed	<p>Tony Donovan Chief Technical Adviser Skills for Tourism Project tony.donovan@luxdev.lu</p>

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			the greater tourism economy. The overall objective is promotion of sustainable and inclusive growth of the Lao PDR tourism/hospitality sector thereby contributing to poverty reduction.								within 3 months of graduation. 80% of employed have income above minimum wage.	
4	Improve Tourism Infrastructure and Facilities in the Konglor Cave-Phong Nha Ke Bang-Nakhon Phanom Corridor	Lao PDR, Thailand, Viet Nam	The project is helping improve small infrastructure and public amenities to provide better visitor services and tourist information. The New Zealand – Lao PDR Ministry of Information, Culture and Tourism Lao Tourism Support Activity is enhancing visitor experience and service quality and promoting travel around The Loop, a touring circuit through Khammouane and Bolikhamxay provinces of Lao PDR, with Konglor Cave as one its key attractions. In addition to support for Konglor Cave, the project is developing additional sites and products around The Loop, including construction of tourist facilities, improving site access, interpretation and management, SME support targeting handicraft producers, and transportation and food and accommodation service providers, enhancing tourist safety etc. Marketing activities include promotion of the Loop as to existing and potential cross-border tourism flows between Thailand, Lao PDR and Viet Nam.	2017	1.6	1.6	Governments of the Lao PDR, Thailand, and Viet Nam, ODA (New Zealand)	Governments of the Lao PDR, Thailand, and Viet Nam, ODA (New Zealand)	Ongoing Small infrastructure support and capacity building programs all on-track. Several hundred small enterprises and destination managers receiving training and tourism-related business-support services. Thailand Hosted the 2018 Mekong Tourism forum in Nakhon Phanom Following the Forum, several cross-border media and travel industry familiarization tours organized.	Lao PDR: NSEC Thailand: NSEC Viet Nam: NSEC	Lao PDR: In project areas - overnight visits: \$2.1 million, day visits: \$1.0 million. Overnight visits: daily expenditure international: \$55, regional: \$45, domestic: \$18. Average length of stay: 2.5 days. Employment: 160 additional women and 125 additional men employed in the tourism sector.	Thaviphret Oula: Deputy Director General, Tourism Development Department Ministry of Information, Culture, and Tourism thaviphret@yahoo.com

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact																				
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)																								
5	Tourism Information Center and Roadside Rest Area Development	All GMS countries	The project is developing or improving tourism information centers at primary and secondary tourist attractions and will professionalize facilities management.	2017	30.0	30.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Ongoing Activities integrated in transport, trade, SME-development, and other tourism projects.			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org																				
6	Second GMS Tourism Infrastructure for Inclusive Growth	Cambodia, Lao PDR, Viet Nam	<p>The project improves urban-rural connectivity; environmental services; and the capacity to manage tourism growth in secondary destinations along the GMS economic corridors. It also supports implementation of Association of Southeast Asian Nations (ASEAN) Tourism Standards.</p> <p>The estimated costs in millions of dollars is as follows:</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Total</th> <th>ADB</th> <th>Government</th> </tr> </thead> <tbody> <tr> <td>Cambodia</td> <td>30.89</td> <td>30.0</td> <td>0.89</td> </tr> <tr> <td>Lao PDR</td> <td>48.8</td> <td>47.0</td> <td>1.8</td> </tr> <tr> <td>Viet Nam</td> <td>56.67</td> <td>45.0</td> <td>11.67</td> </tr> <tr> <td>TOTAL</td> <td>136.36</td> <td>122.0</td> <td>14.36</td> </tr> </tbody> </table>	Country	Total	ADB	Government	Cambodia	30.89	30.0	0.89	Lao PDR	48.8	47.0	1.8	Viet Nam	56.67	45.0	11.67	TOTAL	136.36	122.0	14.36	2018	136.2	136.4	ADB—122.0 Governments of the Lao PDR, and Viet Nam—14.2	ADB—122.0 Governments of the Lao PDR, and Viet Nam—14.4	<p>Ongoing ADB approved the Cambodia and Lao PDR components on 31 August 2018, while the Viet Nam component was approved on 7 December 2018.</p> <p>Cambodia: Project successfully launched in Q1 2019, implementation progress is about 10%.</p> <p>Lao PDR: Project successfully launched in Q1 2019, implementation progress is about 10%.</p> <p>Cambodia and Lao PDR have started to prepare detailed engineering designs for 2 landfills and 1 road subproject. First works contracts expected to be awarded in Q4 2019.</p>	<p>Cambodia: Kep, Preah Sihanouk, Kampot and Koh Kong provinces SEC</p> <p>Lao PDR: Champasak, Luang Prabang, Vientiane provinces NSEC, SEC</p> <p>Viet Nam: Hoa Binh, Nghe An, Quang Binh, Quang Tri, Thua Thien Hue provinces NSEC, EWEC</p>	<p>Cambodia-Lao PDR: (i) 73 km provincial and district access roads to tourist sites and 4 ferry ports improved, (ii) 2 landfills constructed and solid waste management improved for 5,300 households/businesses; (iii) 25 ha of land in tourist areas protected from flooding; (iv) 6 towns achieve ASEAN Clean Tourist City standard, 107 hotels achieve green hotel standard and 148 homestays achieve homestay standard; (v) 500 entrepreneurs and hotels/homestays receive business support services; and</p>	Mr. Steven Schipani, SERD/ADB sschipani@adb.org
Country	Total	ADB	Government																													
Cambodia	30.89	30.0	0.89																													
Lao PDR	48.8	47.0	1.8																													
Viet Nam	56.67	45.0	11.67																													
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Investment projects in RIF 2022 continued

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					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									<p>Viet Nam: ADB and participating provinces finalizing project agreements, expected to be signed and loan effective in Q3/4 2019.</p>		<p>(vi) 5000 residents join destination management/ tourism awareness activities.</p> <p>Viet Nam: (i) 31 km of provincial and district access roads to tourist sites and 13 ferry piers improved / constructed, (ii) 228 ha of beach-front improved and protected from storms/flooding; (iv) 4 towns achieve ASEAN Clean Tourist City and 44 hotels achieve green hotel standard; (v) five public-private partnerships (management contract/ lease) established to operate and maintain project-supported tourism facilities.</p>	
7	Community-Based Tourism Enterprise Support Program	All GMS countries	The project will provide business support services to facilitate community-based tourism development and local access to tourism-related value chains.	2021	30.0	30.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
8	Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia, Lao PDR, Viet Nam	The project will develop tourism-related infrastructure within the framework of the Green Triangle Development Plan. In northeastern Cambodia, for instance, the project will develop tourism-related infrastructure (including the airport in Ratanakiri Province), vocational training, and small-scale community-based tourism.	2022	75.0	75.0	TBD	TBD	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org
9	Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia, Lao PDR, Thailand	The project will develop tourism-related infrastructure within the framework of the Emerald Triangle Development Plan.	2022	75.0	75.0	ADB—50.0 Government of Thailand—25.0	TBD—50.0 Government of Thailand—25.0	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org
10	River and Coastal Port Improvements	All GMS countries	The project will develop and/or improve water transport terminals to facilitate access to tourist attractions and secondary destinations.	2022	250.0	250.0	Governments of the GMS countries, ADB, Official Development Assistance (ODA)	Governments of the GMS countries, ADB, Official Development Assistance (ODA)	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org
11	Improve Environmental Services in World Heritage Sites	All GMS countries	The project will improve the infrastructure and services relating to solid waste and wastewater management at United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Sites.	2022	250.0	250.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
12	Border Facilities Improvement Program	All GMS countries	The project will upgrade border infrastructure, information technology, and management systems to improve passenger and vehicle clearance efficiency, safety, and security.	2022	200.0	200.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org
Subtotal (Tourism Investment Projects)					1,435.2	1,435.4						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
1	Preparing Second GMS Tourism Infrastructure for Inclusive Growth Project	Cambodia, Lao PDR, Viet Nam	The technical assistance (TA) supported the preparation of investment projects (including detailed engineering designs for 3 infrastructure subprojects) to improve urban-rural connectivity, environmental services and the capacity to boost tourism revenues, jobs, and environmental performance in secondary destinations along the GMS economic corridors. The project is also supporting the implementation of ASEAN regional tourism standards.	2016	2.5	2.2	ADB—1.5 Nordic Development Fund (NDF)-financed Project Readiness Improvement Trust Fund —1.0	ADB—1.5 NDF—0.7	Completed Project preparation completed, ensuing loans (\$122 million) approved in 2018. NDF supported climate risk and vulnerability assessment for 12 infrastructure subprojects and detailed engineering design for 3 subprojects.	NSEC, SEC	GMS Tourism Sector Strategy 2016-2025 updated and endorsed at 22 nd GMS Ministerial Conference. Feasibility studies for priority infrastructure and other project outputs including market analysis;	Mr. Steven Schipani, SERD/ADB sshipani@adb.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
											stakeholder consultations; climate risk assessment; preliminary engineering designs; social, economic and financial analysis; safeguards documents; cost estimates; and analysis of risks and mitigation measures – all completed following government and ADB requirements.	
2	Small Scale Knowledge and Support Technical Assistance for 2018 Mekong Innovative Startup Tourism (MIST) Accelerator Program (aka Mekong Tourism Innovation) *2019 MIST Program to be Organized in Bangkok (October 2019)	Cambodia Lao PDR Myanmar Viet Nam	MIST identifies, pilots, and helps entrepreneurs and government scale innovative tourism solutions, both traditional and technology-based, that contribute to sustainable and inclusive tourism. The first MIST accelerator program launched in January 2017 successfully incubated 12 tourism startups from Cambodia, Lao PDR, Myanmar, and Viet Nam. The 2018 MIST identified 5 additional scalable business models and technologies to address priority GMS visitor market needs. It deepened industry engagement by setting up a tourism industry advisory group that included corporates, technology companies, mature startups, research agencies, media, and academia.	2018	0.2	0.2	DFAT Australia —0.225	DFAT Australia —0.225	Completed October 2018. The TA was evaluated highly successful as all TA outputs were achieved and the outcome target to grow at least 5 MIST tourism business models through new investment/new commercial partnerships by 2020 was exceeded in early 2019. Completion report available at: www.adb.org/projects/documents/reg-52108-001-tcr		2018 MIST accelerator program designed and implemented. Output targets included (i) MIST 2018 receives at least 100 applications; (ii) at least 5 tourism start ups in the startup track and at least 3 in the market access track graduate from the MIST accelerator program; and (iii) MIST 2018 generates at least 1 million social shares.	Mr. Dominic Mellor, SERD/ADB dmellor@adb.org Mr. Jens Thraenhart, MTCO jens@tourismmekong.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
3	Explore Mekong Digital Marketing Initiative	All GMS countries	<p>(1) Improve the functionality and usability of the www.mekongtourism.org website, e-library, Mekong Tourism Contributor Program, e-newsletter, and social media. Dedicated MekongTourismForum.org website, customized yearly for respective annual forums.</p> <p>(2) Public-private tourism marketing programs, executed by Destination Mekong, including "Mekong Moments", Mekong Mini Movies campaign, "Experience Mekong Collection & Showcases," and Mekong Trends snapshot reports.</p>	2015	3.0	3.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	<p>Ongoing. GMS counterpart contribution: \$0.09 million/year)</p> <p>MekongTourism.org website has seen increased traffic, number of articles posted and documents uploaded to e-library, and Tourism Storytellers in Contributor program.</p> <p>Mekong Moments features experience websites by businesses and shared photos and videos tagged with #mekongmoments. Mini movies shared for Mekong Mini Movies campaign with total reach of over 6 million. Total video views: over 1,000,000. (May-June 2019).</p> <p>Small responsible travel businesses in Experience Mekong Collection (www.ExperienceMekong.com). Mekong Trends Snapshot Report on GMS Aviation published end of 2017, and Snapshot Report on Responsible Tourism due to be published end of 2019.</p>		<p>(1) Engagement with the travel and tourism industry active in the GMS.</p> <p>(2) Increased promotion of the GMS as an experiential tourism destination.</p> <p>(3) Drive public-private partnership models to execute programs and initiatives.</p>	Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
4	Strengthening Coordination of GMS Tourism Product Development and Promotion	All GMS countries	The TA will strengthen the capacity of the Mekong Tourism Coordinating Office to coordinate multi-country experience development, marketing, and delivery of knowledge services.	2017	0.5	0.5	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	<p>Ongoing—with GMS counterpart contributions (\$0.09 million/yr). Meetings organized to discuss key thematic multi-country routes.</p> <p>MekongTourism.org features multi-country routes and plots the 11 multi-country routes as defined in GMS Tourism Sector Strategy on Google Map.</p> <p>Sponsored by Thailand (TAT), MekongMoments promotes eight (8) multi-country routes including Thailand, powered by social commerce technology, featuring experiences in these geo-fenced areas, plus Thai Royal Projects.</p> <p>Mekong Mini Movie Festival campaign (MekongMinis.com) generated over 1 million video views and a media reach of over 22 million via 300 eligible shared videos, inspiring travelers all over the world. Now in</p>	SEC, EWEC	<p>Continuous communication between public and private sectors of the member countries to develop and promote routes as tourism products. Provide awareness to tourism industry of multi-country and thematic routes.</p> <p>Support promotion and private sector engagement, as well as sharing of experiences on social media on these multi-country routes, aggregated to MekongMoments.com via hashtags.</p> <p>Development of country specific food platforms, starting with Taste Thailand (sponsored by the Tourism Authority of Thailand) and Taste Cambodia (sponsored by the Ministry of Tourism Cambodia), integrated in a</p>	Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@tourismmekong.org

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Technical assistance projects in RIF 2022 continued

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					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									<p>its second year, results are expected to be even higher in terms of quantity and quality.</p> <p>Experience Mekong Collection (ExperienceMekong.org) curated over 300 small responsible travel businesses and social enterprises, promoting inclusive growth, secondary destinations, and sustainable tourism. Now in its 3rd year, in 2020 the Experience Mekong Collection Showcases will feature six responsible travel businesses, in partnership with Mahidol University (Thailand).</p>	<p>new regional food tourism portal (Taste Mekong), integrating food experiences from street vendors, cooking classes, to celebrity chefs.</p> <p>The Mekong Trends Report on Sustainable Tourism in the GMS is scheduled to be published by the end of 2019, in partnership with the Tourism Authority of Thailand.</p> <p>First phase of collaborative destination campaign platform Inspiring Laos.com launched.</p> <p>The portal integrates travel businesses regardless of size and type, syndicated into other relevant destination portals to drive exposure and for experiences and destinations.</p> <p>Further training and workshops are planned to increase engagement with private sector.</p>		

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
5	Mekong Inclusive Growth and Innovation Program	Cambodia, Lao PDR	The project is strengthening responsible tourism development and management capacity, as well as business support services, to increase income and job opportunities in southern Lao PDR and southern Cambodia.	2017	3.0	3.0	ODA, Swiss contact	ODA, Swiss contact	<p>Ongoing</p> <p>Lao PDR: technical assistance to local marketing task force to promote Southern Laos tourism (www.southern-laos.com); experiential tourism products strengthened/developed, Southern Laos Destination Management Network (DMN) supported; 27 private sector managed refill stations under 'Refill not Landfill' plastic reduction initiative.</p> <p>Cambodia: in-service training program supports hospitality SMEs; experiential tourism products developed in culture and cuisine, and heritage visitor flows; Tourism Industry Marketing Working Group (TIMWG) (in process of renaming it to Tourism Working Group) established to support destination management and marketing. Sub-committees formed with private sector participation. Skills training has expanded to Sihanoukville City</p>	SEC	<p>Lao PDR: tourism SMEs improve performance in Champasak Province; tour guides trained; visitor flows strengthened in coffee tourism, cycling, river experiences, and nature-based tourism; improved destination management and marketing.</p> <p>Cambodia: staff of hospitality SMEs training in improved service; SMEs improve performance in Kampong Speu province; improved destination marketing and management. Two new products are being developed under TIMWG.</p>	<p>Mr. Richard Rose, Country Director, Swisscontact Lao PDR Richard.rose@swisscontact.org</p> <p>Mr. Rajiv Pradhan, Country Director, Swisscontact Cambodia Rajiv.pradhan@swisscontact.org</p>

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
6	Improve Subregional Tourism Data Collection and Analysis	All GMS countries	The project will harmonize methodologies for collecting tourism statistics and produce an annual GMS tourism statistics report. It will also include the establishment of a GMS tourism big data center in the PRC.	2017	6.0	6.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Ongoing Regular workshops are held to discuss issues and approaches towards facilitating harmonization of data collection and reporting aligned with ASEAN's tourism statistics standardized methodology for data collection, reporting and monitoring.			Mr. Sok Sokun, Ministry of Tourism, Cambodia ssokun@gmail.com Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
7	Tourism Product Development for Lao–Thai Heritage Quadrangle	Lao PDR, Thailand	The project will develop experiences linked to Lanexang and Lanna heritage resources.	2018	0.5	0.5	Governments of the Lao PDR and Thailand, ODA—TBD	Governments of the Lao PDR and Thailand, ODA—TBD	Ongoing. The Lane Xang Cultural Quadrangle initiative is promoting cross-border travel and tourism by developing experiences linked to shared heritage resources. It is partially financed by ADB loan proceeds, and Thailand's Designated Areas for Sustainable Tourism Administration (DASTA). Joint activities include promotion of public-private sector cooperation through workshops and meetings, joint surveys of heritage resources and potential.	NSEC	Joint activities to develop and promote the Lao–Thai Heritage Quadrangle (10 activities) Lane Xang Culture Routes map published (20,000 copies) Familiarization trips for tour operators and media organized (2 trips)	Lao PDR: Ministry of Information, Culture and Tourism (MICT). Thailand: Designated Areas for Sustainable Tourism Administration (DASTA).

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									travel routes and circuits, publication of a Lane Xang Culture Routes map, promotional events and familiarization trips for tour operators and media from Lao PDR, Thailand and Myanmar			
8	Third GMS Tourism Infrastructure for Inclusive Growth Project	Select GMS countries	The project will improve transport infrastructure and environmental services in secondary GMS corridor towns to boost tourism growth and service-sector investment.	2020	1.0	1.0	ADB—1.0	ADB—1.0	Proposed			Mr. Steven Schipani, SERD/ADB sschipani@adb.org
9	Preparing the Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia, Lao PDR, Viet Nam	The TA will support the preparation of a project to develop tourism-related infrastructure within the framework of the Green Triangle Development Plan. In northeastern Cambodia, for instance, the project will cover tourism-related infrastructure (including the airport in Ratanakiri Province), vocational training school, and small-scale community-based tourism.	To be determined (TBD)	1.0	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
10	Preparing the Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia, Lao PDR, Thailand	The TA will support the preparation of a project to develop tourism-related infrastructure within the framework of the Emerald Triangle Development Plan.	TBD	1.0	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
11	Capacity Building for Sustainable Destination Management	All GMS countries	The project will strengthen the capacity of public officials to develop and manage tourism destinations sustainably. Initiatives will include regional planning, policy development, service delivery, ecotourism management, and thematic interpretation.	TBD	12.0	12.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
12	Cambodia, Lao PDR, Viet Nam Development Triangle Tourism Development Plan	Cambodia, Lao PDR, Viet Nam	The project will prepare a plan to promote the natural and cultural values of the area, enhance visitor experiences and services, and support local communities.	TBD	1.0	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA—TBD	Governments of Cambodia, Lao PDR, and Viet Nam, ODA—TBD	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
13	Integrated Destination Planning and Management Support Program	All GMS countries	The project will develop integrated destination- management plans to boost local economic development and strengthen cultural, natural, and urban heritage management.	TBD	20.0	20.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
14	Formulation of Travel Guidelines along the Main GMS Corridors	All GMS countries	The project will gather inventory data on travel formalities and border gates along the main GMS corridors to develop tourist travel guidelines that will help enhance visitors' experiences and improve service quality.	TBD	0.2	0.2	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
15	Common Tourism Standards Implementation Program	All GMS countries	The project will strengthen and expand the implementation of common ASEAN tourism standards and the PRC's scenic area rating system.	TBD	12.0	12.0	Governments of the GMS countries, ODA—TBD	Governments of the GMS countries, ODA—TBD	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
16	Child-Safe Tourism Program and GMS Conference on Preventing Child Sex Tourism	All GMS countries	The project will strengthen information, education, and communication activities to equip governments, tourism enterprises, and communities with the knowledge and skills needed to make tourism safe for children.	TBD	3.0	3.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
17	Climate Resilience and Green Growth Planning Program	All GMS countries	The project will develop green growth strategies to promote climate-resilient, lower-carbon, and socially inclusive tourism.	TBD	12.0	12.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
18	Monitoring GMS Visitor Satisfaction	All GMS countries	The project will develop and implement a GMS visitor satisfaction index to track multiple dimensions of the visitor experience, including attractions, hotels, immigration procedures, restaurants, retail shops, and transportation services.	TBD	1.0	1.0	Governments of the GMS countries, ODA	Governments of the GMS countries, ODA	Proposed			Mr. Jens Thraenhart, Mekong Tourism Coordinating Office (MTCO) jens@
Subtotal (Tourism TA Projects)					79.9	79.6						
Subtotal (Tourism Investment & TA Projects proposed to be added in RIF 2022)							0.0					
Total (Tourism Investment and TA Projects)					1,515.1	1,515.0						

Transport and Trade Facilitation

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Improved SPS Handling in GMS Trade Project (additional financing) (formerly Modernization of Sanitary and Phytosanitary [SPS] Agencies for Trade Facilitation Project in GMS [Phase 2])	Lao PDR	The project is a follow-up to the first phase of the Greater Mekong Subregion (GMS) Sanitary and Phytosanitary (SPS) Project for Cambodia and the Lao People's Democratic Republic (Lao PDR). It will aim to continue building an effective SPS system by introducing information technology to SPS management for risk identification, risk sharing, procedural streamlining, and food safety development at the provincial level to facilitate trade and protect health. There were ongoing complementary efforts in Viet Nam	2017	10.3	10.3	Asian Development Bank (ADB—10.0 Government of the Lao PDR—0.3	Asian Development Bank (ADB—10.0 Government of the Lao PDR—0.3	Ongoing Effectivity Date: 5 January 2018. As of 30 June 2019, physical progress was 45%; project performance rating was on-track. Consultants' mobilization completed. (i) Plant Health: Plant protection center continues conducting survey to update pest lists, collecting plant product samples tested for pesticide residues, conducted surveillance for pest interception to establish of regulated pest/quarantine pest in 24 locations of 12 provinces (at border checkpoints and production sites; (ii) Animal health: training on TAD surveillance conducted for staff from 3 target provinces and action plan for collection of samples developed; (iii) Food safety: Food safety activities are being rolled out in 3 new target provinces.	Nationwide in Lao PDR NSEC	Scale up activities in 3 main outputs: (i) surveillance and inspection for plant health, animal health, and food safety; (ii) enhanced education levels and university training of SPS specialists; and (iii) regional cooperation and harmonization for SPS measures and practices.	Lao PDR Ministry of Agriculture and Forestry, Department of Livestock and Fisheries

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
2	Establishment of Logistics Hub and Truck/Trailer Terminal in Wartayar Industrial Zone (north-west part of Yangon)	Myanmar	<p>The project aims to establish a truck/trailer terminal and a logistics hub for training transporters. The terminal and hub will facilitate smoother trade flows and enable better logistics between the main trading cities, Yangon and Mandalay, with both inland and off-land transportation. The proposed location is near Wartayar Industrial Zone, in the northwestern outskirts of Yangon. This will be a multimodal transport facility that could include bonded transports, cool chain transports, bonded warehouse services, third-party logistics services, inland water services, and rail transports.</p> <p>1st Phase: <i>1st year:</i> Feasibility Study and Land acquisition</p> <p><i>2nd year:</i> Obtain approval from the authority to build permit and invite (Expression of Interest – EOI) to companies</p> <p><i>3rd year:</i> start Truck terminal</p> <p>2nd Phase: <i>4th year:</i> Logistics hub & bonded warehouse 5th year: obtain license to operate The problem or opportunity that the project is addressing The project is to provide better logistics network and operative infrastructure for traders. Currently, logistics and transports sector needs enough land space for new logistics hub, truck/trailer terminal, offices, 3PL warehouses and distribution centres or wholesaler warehouses outside of Yangon.</p>	TBD	20.0	20.0	TBD	TBD	<p>Proposed</p> <p>Expected year of commencement: 1st Jan 2020</p> <p>Expected year of completion: 31st Dec 2025</p>	Hlegu Township, Yangon, Myanmar EWEC	<p>Expected Output</p> <ul style="list-style-type: none"> Buildings and infrastructure for logistics hub built One stop servicing for control area provided and ease of doing business increased More access to the hub linked More truck/trailer terminals built and load/unload time consuming reduced 	Daw Naw Mutakapaw Deputy Director General Myanmar Trade Promotion Organization Ministry of Commerce Ph: +95 67 430475 Fax: +95 67 408424 Email: mutakapaw@gmail.com Office No.3, Ministry of Commerce, Nay Pyi Taw

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Investment projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			The proposed location is near the Yangon-Mandalay express way between 3 miles and 5.5 miles, Hlegu Township in the north-east part of the outskirts of Yangon. This is a very good location because it can easily access to all industrial zones around Yangon. Moreover, the intended place is located not very far from Yangon Sea Port and it is located on the North-South Economic Corridor.									
3	Enhancing Capacity of Sanitary and Phytosanitary (SPS) Arrangement to Facilitate Trade in Myanmar	Myanmar	<p>The project is proposed to support relevant SPS agencies, trade regulatory and promoting bodies, as well as relevant private sector stakeholders to enhance their full spectrum of SPS capabilities, and thus promoting increased trade in Myanmar. It will cover the following preliminary scope:</p> <p>Strengthening SPS governance and trade capacity: The project will facilitate a coordination platform among relevant SPS agencies and the trade bodies with the private sector to ensure effective coordination and efficient delivery of required SPS services.</p> <p>Enhancing SPS capability: The project will support upgrading of (a) SPS testing labs and capabilities; (b) relevant IT-based systems to facilitate SPS processing (including improved procedures); and (c) improved surveillance capability to manage market access requirements and outbreak control.</p> <p>Improving SPS trade-enabling functions: The project will enhance the government's capacity in managing SPS market access requirements in concluded and negotiating trade agreements and engage with private sector stakeholders to build their compliance capability to ensure positive impact on trade flows from the improved SPS capability.</p>	2020	25.0	76.0	ADB—24.0 Government of Myanmar—1.0 (in kind, TBC) Cofinancing—TBC	ADB—75.0 Government of Myanmar—1.0 (in kind, TBC) Cofinancing—TBC	Proposed			Nguyen Ba Hung, Trade Specialist, Public Management, Financial Sector and Trade Division. Southeast Asia Department, ADB
Subtotal (TTF Investment Projects in RIF 2022)					55.3	106.3						
Subtotal (TTF projects proposed to be added in RIF 2022)									0.0			
Subtotal (Transport and Trade Facilitation Investment Projects)					55.3	106.3						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Trade Facilitation through Partnership with the Private Sector	Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam	The outcome of this regional policy and advisory technical assistance (TA) will be improved trade facilitation through the simplification, standardization, and harmonization of customs procedures and operations in the participating countries.	2014	1.5	1.5	ADB Japan Fund for Poverty Reduction (JFPR)—1.5	ADB Japan Fund for Poverty Reduction (JFPR)—1.5	Completed closed on 31 Aug 2017		The TA had two outputs: (i) trade facilitation constraints and solutions identified via surveys of the trade-related private sector; and (ii) capacities and procedures of customs administrations improved to enable more effective partnership and engagement with the trade-related private sector.	Nguyen Ba Hung, Trade Specialist, Public Management, Financial Sector and Trade Division, Southeast Asia Department, ADB
2	Support for Implementing the Action Plan on Transport and Trade Facilitation in the GMS (Subproject 2)	All GMS countries	<p>The cluster regional policy advisory TA supports the implementation of the GMS Trade and Transport Facilitation Action Plan, which was endorsed by the 16th GMS Ministerial Conference, in August 2010 in Ha Noi.</p> <p>The TA is being implemented through a cluster approach, with Subproject 1 (\$2 million) implemented from 2011 to 2013, and Subproject 2 (\$3.7 million) from 2014 to 2017. The cluster approach was adopted to (i) acquire the flexibility needed for successful TTF outcomes, and (ii) allow a fine-tuning of activities based on the outcomes of previous efforts and the evolving context of TTF initiatives, as the GMS countries implement the ASEAN Economic Community Blueprint.</p>	2014	3.7	3.7	Department of Foreign Affairs and Trade (Australia)—3.7	Department of Foreign Affairs and Trade (Australia)—3.7	Completed closed on 30 June 2019		The TA has the following expected outputs under three components: (i) under transport facilitation, an exchange of traffic rights; (ii) under trade facilitation, (a) coordinated border management, (b) an enhanced SPS regime, (c) strengthened national and subregional transport and trade facilitation (TTF) institutions,	Kanya Sasradipoera ADB

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Technical assistance projects in RIF 2022 continued

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											and (d) a regional trade logistics strategy; (iii) under capacity building and regulatory reform: (a) capacity development, and (b) legal and regulatory improvements and harmonization.	
3	Commodity Fairs in GMS Countries	Selected GMS countries	The annual commodity fairs in GMS countries are important platforms for strengthening GMS trade cooperation. The fairs are held in GMS countries on an alternate basis. The project aims to support the booth rentals for the exhibitors. Commodity trade fairs are supported by the Yunnan provincial government and the Japan International Cooperation Agency (JICA).	2014	5.0	5.0	PRC (Yunnan), JICA	PRC (Yunnan), JICA	Ongoing			
4	ASEAN Economic Community Support Program, Technical Assistance	8 of 10 ASEAN countries covered: CAM, LAO, INO, MAL, MYA, PHI, THA, VIE	The AEC Support Program Facility will assist countries in formulating and implementing national reform programs designed to meet their AEC commitments. This TA will help prepare the AEC Support Program for Cambodia and Lao PDR, among others.	2016	5.0	5.0	ADB—5.0	ADB—5.0	Ongoing Country coverage was expanded to 8 ASEAN Countries which includes Cambodia and Lao PDR Components of this TA were also expanded to cover: (i) Support for the PHI Competition Commission and other regional activities; (ii) Support for the PHI PPP Center, (iii) Support for the PHI Enterprise-Led Learning Network;	Cambodia Lao PDR Myanmar Thailand Viet Nam	1. Action plans and/or roadmaps to participate in the AEC prepared 2. Capacity to implement the AEC Commitments in priority areas developed 3. Monitoring and Evaluation of AEC implementation at the country level strengthened	Maria Cristina Lozano Astray, Asian Development Bank

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
									(iv) Support for INO SDGs, and (v) Innovative Financing			
5	Advancing Time Release Study in Southeast Asia (formerly Advancing Time Release Study in the Greater Mekong Subregion)	Cambodia, Lao PDR, Myanmar, BIMP-EAGA and IMT-GT subregions	The TA will assist the participating countries in undertaking specific customs reforms and modernization steps (based on data from a time release study) to support substantive trade-facilitation measures based on the associated investment project's action plan and will conduct a study of their checkpoints to improve their handling of bottlenecks.	2017	1.0	1.0	ADB—1.0	ADB—1.0	<p>Ongoing Time Release Studies (TRS) are being supported in CLM, BIMP-EAGA and IMT-GT regions</p> <p>CAM: TRS Workshop tentatively set for Sept 2019</p> <p>MYA: ongoing discussion on the TRS and AEO. The TRS Report is being finalized.</p> <p>PHI: Customs Order to initiate the AEO will be released soon. A technical workshop is tentatively planned this year.</p> <p>BIMP-EAGA: Regional TRS Implementation workshop held in Makassar, INO</p> <p>IMT-GT: As requested by the Centre for IMT-GT Subregional Cooperation, TRS workshops will be planned for the Working Group on Trade and Investment</p>		1. TRS recommendations implemented; 2. New TRSs conducted; 3. TRS implementation strategy strengthened	Taro Sekiguchi ADB

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
6	Strengthening Capacity Building for Logistics for Small and Medium Enterprises along GMS Corridors	PRC, Viet Nam	As a driving force of economic corridor development, the SMEs, especially logistics SMEs, face many constraints and bottlenecks. Before transforming a transport corridor into a logistics corridor, the capacity of logistics SMEs should be addressed. As a starting point, training the logistics SMEs that are operated by minority ethnics could be a good way to support the inclusive growth agenda of the GMS. The train-the-trainers approach would be desirable for this TA, and logistics associations could play an important role.	TBD	TBD	TBD	TBD	TBD	Proposed			
7	Strengthening the Cooperation among Cambodia, Lao PDR, and Viet Nam in the Development Triangle Area	Cambodia, Lao PDR, Viet Nam	The TA will involve (i) an assessment of the potential of the Cambodia–Lao PDR–Viet Nam (CLV) Development Triangle; (ii) the facilitation of structured dialogues among the CLV countries, and between these countries and other stakeholders in the development triangle area, including potential investors and donors; (iii) an improvement of the capacity of joint coordination committees by providing selected sector and/or thematic studies with policy recommendations to the central and provincial governments.	TBD	1.0	1.0	TBD	TBD	Proposed			
8	GMS Trade and Investment Information Service Platform	All GMS countries	Using the official GMS website as a model, this project will establish the only official internet portal for all GMS members. The portal will have circular sectors, with the trade and economic sectors focusing on the economic corridors. Independent and interconnected websites on politics, economics, culture, tourism, customs clearance, investment, e-commerce, and logistics will be developed gradually. In the next step, the project will address technology issues and questions regarding the operation mode and business system, as the information	TBD	2.5	2.5	TBD	TBD	Proposed			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
			and industrial sectors for each GMS member develop. The project will also strengthen market information sharing among the GMS countries by (i) building and improving a database on the cross-border trade of key goods, and (ii) initiating and institutionalizing information-sharing mechanisms among the entities concerned.									
*	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	To develop 3 criteria such as: food/agriculture supply chains, food safety and agriculture trade modernization. The digital technology system is a modality key to achieve those fundamental elements to support agriculture industry.	2020	*Count and Cost estimate listed under ICT to avoid double counting	*Count and Cost estimate listed under ICT to avoid double counting	ADB, IFAD, FAO	ADB, IFAD, FAO	Proposed by Lao PDR			Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
Subtotal (Transport and Trade Facilitation TA Projects in RIF 2022)					20.2	19.7						
Subtotal (Transport and Trade Facilitation TA Projects proposed to be added in RIF 2022)							0.0					
Subtotal (Transport and Trade Facilitation TA projects)					20.2	19.7						
Total (Transport and Trade Facilitation Investment and TA Projects)					20.2	126.0						

Information and Communication Technology

Investment Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1.	Broadband Development Strategies and Implementation Programs of the GMS	All GMS countries	The GMS member countries have many people living in remote rural areas (for example, 70% of the population in the Lao PDR), where there is typically no broadband internet access. But the government policies to meet rural demand are hindered by low returns on infrastructure investments. The project aims to survey and analyze the status of broadband development in the GMS member countries, identify problems and development needs, implement pilot spectrum frequencies (LTE 700MHz, TV White Space [TVWS], or other types of frequency bands), and develop broadband strategies for the GMS countries. An example of linkage between national and subregional plans: the ASEAN ICT Master Plan (AIM) 2015 and AIM 2020 (which will soon start implementation) and the Lao PDR country analysis report prepared under the Lao PDR–United Nations Partnership Framework (2017–2021).	TBD	8.0	8.0	Official Development Assistance (ODA)	Official Development Assistance (ODA)	Proposed			
2.	Digital Connectivity	All GMS countries	GMS members have to adapt to the ever-changing economic landscape and explore new ways of cooperating to promote growth. A new scientific and industrial revolution is currently underway, featuring the emergence of new technologies, new industries, and new business models. Digital technologies in particular, have spread rapidly, connecting and deeply transforming the world to an unprecedented degree. By creating new business opportunities and significantly reducing the costs of transactions and transplantation, digital connectivity will prove to be a key driver of growth, creating jobs and promoting innovations.	TBD	15.0	15.0	ODA	ODA	Proposed			
Subtotal (ICT Investment Projects in RIF 2022)					23.0	23.0						
Subtotal (ICT Investment projects proposed to be added in RIF 2022)					0.0							
Subtotal (ICT Investment)					23.0	23.0						

Technical Assistance Projects

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates ⁽⁷⁾	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
Projects in RIF 2022												
1	Broadband Development Strategies and Implementation Programs of the GMS	All GMS countries	Broadband is the cornerstone of national development. The United Nations defines its new broadband objective as “20 megabits per second (Mbps) access at \$20 per person by 2020.” The technical assistance (TA) project will make recommendations to GMS governments and enterprises concerning their participation in broadband development. To this end, the project will analyze each country’s national broadband development status, identify problems and development needs, establish GMS broadband development goals, and set major tasks and key construction projects.	TBD	0.1	0.1	TBD	TBD	Proposed			
2	Workshops on E-Commerce Cooperation and Exchanges in GMS	All GMS countries	The project involves a joint effort with related Chinese internet value-added enterprises (such as Alibaba) to conduct exchanges on e-commerce solutions and typical cases, with a view to implementing the MOU on the Joint Cooperation in Further Accelerating the Construction of the Information Superhighway and its Application in the GMS, promoting pilot programs involving electronic applications in cross-border and domestic projects of member countries, boosting e-commerce development in the GMS, and providing favorable conditions for those value-added enterprises to expand their presence in the GMS markets.	TBD	0.1	0.1	TBD	TBD	Proposed			
3	Cross-border International Interconnected Bandwidth Expansion Project	PRC, Lao PDR, Viet Nam	China Unicom signed a cooperation contract with Viettel, Vietnam Posts and Telecommunications Group (VNPT), FPT, HTC, and CMC, in Viet Nam; and Lao Telecom (LTC), Unitel, and ETL, in the Lao PDR, to extend the communication bandwidth across the border. The project will build a cable network encompassing Hong Kong, China, and the United States. An over 300-gigabyte bandwidth is expected to be available through 2018.	TBD	2.1	2.1	State-owned telecom operators (China Unicom, Viettel, and LTC)—2.1	State-owned telecom operators (China Unicom, Viettel, and LTC)—2.1	Proposed			

Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		(7) Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
4	Workshop on international roaming for all operator/regulator in GMS countries	Lao PDR, Cambodia, Myanmar, Thailand, Viet Nam	International roaming has become a global service of interest not only to tourists, but to investors and businesses, as well. Therefore, the techniques of negotiating interconnections and international roaming charges will be discussed by experts in the proposed workshop, which would be open to operators and regulators from the GMS countries.	TBD	0.1	0.1	ODA	ODA	Proposed			
			The project's outputs will include technical skill training given to operators and regulators at telecom companies and internet service providers in MOK countries, exchanges of ideas and experiences about international roaming, linkages between national and subregional strategies, and improved technical knowledge in the public and private sectors.									
5	Training in Quality of Experience (QoE) in Voice/Data Services over Communication Network Monitoring	Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam	The quality of experience (QoE) associated with voice and data services is very important for measuring the efficiency of networks and the users' level of satisfaction. For this reason, it is important to have the capacity to monitor network performance and understand user perspectives. The project's outputs will include: training in technical skills given to relevant personnel in MOK countries, exchanges of ideas and experiences regarding the QoE with voice and data services, linkages between national and subregional strategies, and improved technical knowledge in the government and private sectors.	TBD	0.1	0.1	ODA	ODA	Proposed			

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Technical assistance projects in RIF 2022 continued

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		⑦ Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					First Progress Report (2018)	2019 Updates (if any)	First Progress Report (2018)	2019 Updates (if any)				
6	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	To develop 3 criteria such as: food/agriculture supply chains, food safety and agriculture trade modernization. The digital technology system is a modality key to achieve those fundamental elements to support agriculture industry.	2020	1.0	1.0	ADB, IFAD, FAO	ADB, IFAD, FAO	Proposed by Lao PDR			Mr. Chanthaly Chansom-pheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
7	Science and Technology Strategy for Enhancing Organic Food Industry	Lao PDR	Lao PDR is a landlocked country namely as the highest percentage of forest area, which is 92.1% of the total area including abundant environment resources that has potential in producing clean, safe, secure and sustainable agriculture products. However, Lao agriculture performance has lagged far behind potential due to limited productivity and increasing importance reliance.	2020	0.4	0.4	ADB	ADB	Proposed by Lao PDR			Mr. Chanthaly Chansom-pheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
8	Feasibility Study on Science and Technology Park	Lao PDR	Technology transfer and innovation is new drivers which the GMS Strategy framework 2012-2022 focus on the next half period to strengthen the competitive of SME in the GMS region, because of the STI is the key of Social-Economic development plan. The STI Park aims to increase the wealth of communities by promoting the culture of innovation and the competitiveness of SMEs	2020	0.35	0.37	ADB	ADB	Proposed by Lao PDR			Mr. Chanthaly Chansom-pheng Office of the GMS National Coordinator, Lao PDR chansom-pheng@yahoo.com
Subtotal (ICT TA Projects in RIF 2022)					4.3	4.3						
Subtotal (ICT TA projects proposed to be added in RIF 2022)						0.0						
Subtotal (ICT TA Projects)					4.3	4.3						
Total (ICT Investment and TA Projects)					27.3	27.3						

Regional Investment Framework 2022: Second Progress Report and Update

The Regional Investment Framework 2022 (RIF 2022) is the medium-term pipeline of priority investment and technical assistance projects in the Greater Mekong Subregion (GMS) and operationalizes the strategic thrusts and priorities of the GMS Program under the GMS Strategic Framework (2012–2022) and the Ha Noi Action Plan 2018–2022. The RIF 2022 was endorsed at the 22nd GMS Ministerial Conference in Ha Noi, Viet Nam on 20 September 2017 and then adopted by the GMS Leaders during the 6th GMS Summit of Leaders on 31 March 2018 in Ha Noi including the direction to ensure that the RIF is reviewed and updated regularly to adapt to changing conditions and priorities.

This RIF 2022 Second Progress Report and Update represents updates to the RIF 2022 during the 2019 cycle (from June to November 2019). It includes a revision to the RIF 2022 to a new total of 255 investment and technical assistance projects requiring a total of \$92.7 billion in financing.

About the Greater Mekong Subregion Economic Cooperation Program

The Greater Mekong Subregion (GMS) is made up of Cambodia, the Lao People’s Democratic Republic, Myanmar, the People’s Republic of China (specifically Yunnan Province and Guangxi Zhuang Autonomous Region), Thailand, and Viet Nam. In 1992, with assistance from the Asian Development Bank and building on their shared histories and cultures, the six countries of the GMS launched a program of subregional economic cooperation—the GMS Program—to enhance their economic relations. The GMS Program covers the following sectors: agriculture; energy; environment; health and other human resource development; information and communication technology; tourism; transport; transport and trade facilitation; urban development; and border economic zones.

About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 members—49 from the region. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.

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