



November 2016

Quarterly Summary Report on Approved (A) Project Preparatory Technical Assistance Not Exceeding \$5,000,000; (B) Technical Assistance Projects Not Exceeding \$225,000; and (C) Technical Assistance Cluster Subprojects
(July–September 2016)

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LIST OF TECHNICAL ASSISTANCE PROJECTS				
Seq. No.	TA No.	TA Name	Amount (\$'000)	Date Approved
(A) PROJECT PREPARATORY TECHNICAL ASSISTANCE NOT EXCEEDING \$5,000,000				
1	9154-AZE	Railway Sector Development Program	1,000.0	4-Jul-16
2	9146-BAN	Market and Value Chain Infrastructure Development	225.0	28-Jul-16
3	9152-BAN	Urban Primary Health Care Services Delivery - Additional Financing	850.0	5-Aug-16
4	9160-BAN	Information Technology Parks for Employment and Innovation	225.0	24-Aug-16
5	9164-BAN	Khulna 800 MW LNG Based Power Plant	225.0	1-Sep-16
6	9140-BHU	Amochhu Land Development and Township	500.0	22-Jul-16
7	9167-CAM	Tonle Sap Poverty Reduction and Smallholder Development - Additional Financing	425.0	14-Sep-16
8	9189-INO	Pilot Carbon Capture and Storage Activity in the Natural Gas Processing Sector	500.0	29-Sep-16
9	9134-KAZ	Road Maintenance Sustainability	1,220.0	14-Jul-16
10	9169-KGZ	Second Issyk-kul Sustainable Development	650.0	14-Sep-16
11	9179-MYA	Power Network Development	1,500.0	26-Sep-16
12	9184-MYA	Rural Roads and Access	1,000.0	29-Sep-16
13	9144-NEP	Power Transmission and Distribution Efficiency Enhancement	1,500.0	22-Jul-16
14	9171-NEP	Second Kathmandu Valley Water Supply Improvement	1,000.0	15-Sep-16
15	9153-PAK	Central Asia Regional Economic Cooperation Railway Connectivity Investment Program	1,000.0	10-Aug-16
16	9185-PAK	Hydropower Development Investment Program	1,750.0	29-Sep-16
17	9194-PAK	Khyber Pakhtunkhwa Provincial Roads Improvement	1,000.0	30-Sep-16
18	9141-PRC	Xinjiang Hetian Comprehensive Urban Development and Environmental Improvement	750.0	25-Jul-16
19	9142-PRC	Green Financing Platform for Accelerated Air Quality Improvement in the Greater Beijing-Tianjin-Hebei Region	500.0	25-Jul-16
20	9186-PRC	Qingdao Rural Waste-to-Energy	500.0	29-Sep-16
21	9192-REG	Fourth Greater Mekong Subregion Corridor Towns Development	1,800.0	30-Sep-16
22	9175-TKM	Power Sector Development	225.0	22-Sep-16
23	9148-UZB	Electronic Healthcare Development	800.0	5-Aug-16
24	9176-UZB	Horticulture Value Chain Development	225.0	26-Sep-16
25	9139-VIE	Distribution Grid Development Sector for Viet Nam Power Corporations	1,000.0	15-Jul-16
26	9147-VIE	Water Efficiency Improvement in Drought Affected Provinces	1,050.0	1-Aug-16

Seq. No.	TA No.	TA Name	Amount (\$'000)	Date Approved
(B) TECHNICAL ASSISTANCE PROJECTS NOT EXCEEDING \$225,000				
27	9136-REG	Developing Capacity of Public Sector Internal Audit Institutions	225.0	15-Jul-16
28	9159-REG	Legal Readiness for Climate Finance and Climate Investments	225.0	16-Aug-16
29	9174-REG	Strengthening the Pacific Islands Forum Secretariat Regional Economic Policy Mandate in the Pacific	225.0	21-Sep-16
(C) TECHNICAL ASSISTANCE CLUSTER SUBPROJECTS				
30	9129-IND	Strengthening Climate Change Resilience in Urban India - Strengthening Smart Water Management and Urban Climate Change Resilience in Tamil Nadu (Subproject 1)	1,500.0	4-Jul-16
31	9149-REG	Asian Development Outlook 2016–2018 - Asian Development Outlook 2017 (Subproject 2)	1,200.0	5-Aug-16
32	9172-REG	Selected Evaluation Studies and Outreach for 2017–2018 (Subproject 1)	2,500.0	15-Sep-16

(A) PROJECT PREPARATORY TECHNICAL ASSISTANCE

TA 9154-AZE: Railway Sector Development Program

Executing Agency	:	Azerbaijan Railways Ltd.
TA Amount (\$'000)	:	1,000.0
Business Opportunities Listing	:	12 August 2016
Date Approved	:	4 July 2016

The TA will prepare: (i) a comprehensive policy matrix for the railways sector development program (SDP) covering institutional changes (including financial restructuring) at Azerbaijan Railways Ltd. (Azerbaijan Demir Yollari or ADY); (ii) a feasibility study for track renewal and a computerized freight operation system; and (iii) ADB loan processing documents, including a sector assessment; technical, economic, and financial appraisals; environmental, social, and poverty impact assessments; procurement preparation and project implementation arrangements. The SDP will comprise a policy-based loan and a project loan, the former in several tranches or subprograms. The outputs for the program cover: (i) enhanced management autonomy of ADY and transport sector governance; (ii) financial restructuring of ADY's liabilities; (iii) enhanced financial and management control, efficiency, and reporting at ADY; (iv) business development and corporate restructuring of ADY; and (v) upgraded and modernized infrastructure for the Baku–Yalama rail line) which connects the capital to the Russian border).

Status of Consulting Services : Some individual consultants have been fielded; recruitment of a consulting firm is being processed.

TA 9146-BAN: Market and Value Chain Infrastructure Development

Executing Agency	:	Bangladesh Economic Zones Authority
TA Amount (\$'000)	:	225.0
Business Opportunities Listing	:	29 July 2016
Date Approved	:	28 July 2016

The TA will provide key information required for defining the project concept, and thus, influence the nature of a project design advance (PDA) to design the ensuing project. It will finance consultation with stakeholders including officials of relevant ministries, the private sector, and local communities to gather information and insights on the issues affecting value chain development. The proposed project will meet an increasing consumer demand for safe high value food crops by establishing a modern value chain by: (i) constructing value chain infrastructure for a safe food chain, particularly collection centers linked to a distribution center; (ii) improving the capacity of farmers and agro-enterprises involved in the value chain through accreditation of value chain actors in good agricultural practices and hazard analysis and critical control point; and (iii) facilitating adoption of new technologies by farmers and agro-enterprises by providing to finance. The impact will be consumers and producers benefit from improved production, handling and processing of safe high value crops to Dhaka markets is enhanced. The outcome will be a project concept paper prepared. The output will be due diligence reviews of components for ensuing project completed.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9152-BAN: Urban Primary Health Care Services Delivery - Additional Financing

Executing Agency	:	Local Government Division, Ministry of Local Government, Rural Development & Cooperatives
TA Amount (\$'000)	:	850.0
Business Opportunities Listing	:	10 August 2016
Date Approved	:	5 August 2016

The additional financing will strengthen and expand the ongoing third phase Urban Primary Health Care Services Delivery Project. It will build on the existing partnership with the Local Government Division, Ministry of Local Government, Rural Development and Cooperatives to strengthen and scale up provision of primary health services in urban areas, especially the poor and vulnerable, and address gaps in institutional capacity for sustainable delivery of primary health services. The impact will be improved health, nutrition and family planning status of the urban population, particularly the poor, women, and children. The outcome will be sustainable good quality urban primary health care services in the project areas and target beneficiaries are made available. The TA will: (i) assist the Government of Bangladesh to design the additional financing project; (ii) undertake thorough due diligence; and (iii) ensure project readiness.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9160-BAN: Information Technology Parks for Employment and Innovation

Executing Agency	:	Ministry of Post, Telecommunications and Information Technology
TA Amount (\$'000)	:	225.0
Business Opportunities Listing	:	29 August 2016
Date Approved	:	24 August 2016

The IT/IT enabled-service (ITES) industry faces several challenges for accelerated industry development. These include: (i) adequate physical infrastructure to create synergy among firms and attract investment; (ii) well-trained human resources and innovation capacity; and (iii) strategic interventions to support Bangladesh IT/ITES' integration with the global value chain. The government has already taken initiatives including developing a number of IT parks to address the constraints in physical infrastructure. Currently, two parks, Kaliakoir Hi-Tech Park and Jessore Software Technology Park, are being developed with public-private partnership, partly supported by the World Bank. ADB's support will augment the ongoing development in the two IT parks by providing research and development facilities and business incubation centers, strengthening IT education and training, and supporting the government to develop and implement IT/ITES industry-enabling strategies. Different models will be explored and developed for replication in the other IT parks planned by the government. The TA will: (i) review and analyze past and existing studies relevant to all subprojects including the current master plans of Kaliakoir Hi-Tech Park and Jessore Software Technology Park; (ii) develop master plans; (iii) prepare feasibility studies for each candidate subproject; (iv) identify issues in environment, climate changes, and social safeguards for project development; and (v) conduct stakeholder and local community consultations and participatory planning exercises to be incorporated into the design of the subprojects.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9164-BAN: Khulna 800 MW LNG Based Power Plant

Executing Agency : Asian Development Bank
TA Amount (\$'000) : 225.0
Business Opportunities Listing : 5 September 2016
Date Approved : 1 September 2016

North-West Power Generation Company Limited (NWPGCL), an enterprise of Bangladesh Power Development Board, aims to develop a power plant at Khulna, in the south-western part of Bangladesh. The power plant will be of a nominal capacity of 800 megawatts (MW), and will use combined cycle gas turbine technology. It will be designed to operate on natural gas as the primary fuel, and with high speed diesel as the secondary fuel. As the current gas throughput in the national gas grid is not sufficient to supply the daily natural gas required to operate the proposed power plant, NWPGCL will not source natural gas from production facilities in Bangladesh, but will be importing regasified liquefied natural gas (LNG) from India through a cross-border pipeline. The in-feed to the cross-border pipeline on the India-side, would be regasified LNG sourced from the Floating Storage Regasification Unit to be located offshore in Digha, West Bengal. The TA will support the ongoing due diligence and preparatory work for the ensuing project. Its impact will be improved readiness in implementing clean energy projects. The outcome will be a well-designed investment project developed.

Status of Consulting Services : Consultants have been fielded.

TA 9140-BHU: Amochhu Land Development and Township

Executing Agency : Druk Holding and Investments Limited
TA Amount (\$'000) : 500.0
Business Opportunities Listing : 27 July 2015
Date Approved : 22 July 2016

The project will develop 460 hectares (ha) of riparian land near the city of Phuentsholing that is located adjacent to the Amochhu River on Bhutan's southwestern border with India. It will provide protection from floods and erosion, and construct smart urban infrastructure to allow phased urban expansion. A modern township will be designed on modern sustainable principles of equity, livability, and competitiveness, and will be integrated into the fabric of the existing municipality preserving Bhutan's unique architectural heritage. The project will also protect new and old towns from floods and riverbank erosion which currently threatens lives and livelihoods, and disrupts connectivity with nearby communities. The TA will: (i) review the project's technical, economic and financial viability; (ii) review and update safeguard measures; (iii) review civil works contract documents to ensure adherence to ADB's criteria; (iv) prepare the consulting package for the project implementation consultant and support the recruitment process; (v) undertake financial and procurement capacity assessments of the implementing agency; (vi) prepare all requirements to meet the processing criteria for a loan project; and (vii) support loan start-up activities.

Status of Consulting Services : Consultants have been fielded.

TA 9167-CAM: Tonle Sap Poverty Reduction and Smallholder Development - Additional Financing

Executing Agency	:	Ministry of Agriculture, Forestry & Fisheries
TA Amount (\$'000)	:	425.0
Business Opportunities Listing	:	21 September 2015
Date Approved	:	14 September 2015

The additional financing (AF) will enhance agricultural productivity and improve access to markets in 270 target communes through investments in climate-resilient productive infrastructure, capacity building in disaster risk management of the communities and commune councils, and creation of an enabling environment for agricultural productivity, diversification and climate resilience. It will also strengthen ADB's basin-scale strategic approach in the Tonle Sap basin by creating synergies with other projects, such as the Climate-Resilient Rice Commercialization Sector Development Program. The TA will carry out due diligence and produce full documentation of the AF. It will determine the geographical scope of the AF, guide the selection and design of infrastructure subprojects including criteria for climate resilience and disaster risk reduction, complete feasibility studies of two representative subprojects; update financial management assessment of the executing agencies, conduct financial sustainability assessment and economic analysis; and recommend best practices for climate-resilient agriculture and disaster risk management.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9189-INO: Pilot Carbon Capture and Storage Activity in the Natural Gas Processing Sector

Executing Agency	:	Directorate General of Oil and Gas of the Ministry of Energy and Mineral Resources
TA Amount (\$'000)	:	500.0
Business Opportunities Listing	:	5 October 2015
Date Approved	:	29 September 2015

The project will establish and operate facilities to capture and sequester carbon dioxide (CO₂) from a natural gas processing plant in Gundih, Central Java, Republic of Indonesia. It will also develop carbon capture and storage (CCS) regulation for deploying CCS technology in Indonesia. During the 2-year pilot, the project will capture and store 20,000 tons of CO₂ and increase awareness of and experience with CCS technology in the country. The pilot is essential to increase domestic awareness of CCS, test CCS technology in the Indonesian context, and to demonstrate CCS storage and monitoring performance. The project will strengthen institutional capacity for reducing greenhouse gas emissions in Indonesia which is aligned with Indonesia's Intended Nationally Determined Contribution to the United Nations Framework Convention on Climate Change. Its outcome will be the successful transfer of CCS technology. Project outputs will include: (i) CCS facilities at Gundih and Jepon-1; and (ii) published CCS regulatory framework. The TA is required to finalize due diligence on technical and safeguard aspects of the project and to provide procurement-related support to the executing agency. Its outputs are a fully prepared grant and a successfully completed bidding process for the carbon capture and storage plant. This will include final technical assessments of the proposed carbon capture and storage plant, completed safeguards due diligence, industry outreach on the planned project, invitation for bidding, bid evaluation reports, and successful contract negotiations.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9134-KAZ: Road Maintenance Sustainability

Executing Agency : JSC "NC "KazAvtoZhol"
TA Amount (\$'000) : 1,220.0
Business Opportunities Listing : 18 July 2016
Date Approved : 14 July 2016

The existing road maintenance management system in Kazakhstan does not provide for systematic process of measurement of the conditions of the road infrastructure, its diagnosis and forecasting future expenditures associated with its maintenance on the long-term basis. The executing agency (EA) has no previous experience in the preparation and implementation of performance-based road maintenance contracts. The project will improve the road maintenance system in the country through changes in the institutions and the allocation of funds. It aims to introduce performance-based maintenance of roads, which will ensure the sustainability of road infrastructure by improving the efficiency of the maintenance activities. This will result to better connectivity and local employment growth. The project will provide a sustainable efficient movement of people and goods to domestic and international markets. The outcome is improved performance of the republican road network in Kazakhstan. The TA will prepare the project and assist the EA with the bidding process up to the award of the contract.

Status of Consulting Services : Individual consultants have been fielded; recruitment of the remaining consultants is being processed.

TA 9169-KGZ: Second Issyk-kul Sustainable Development

Executing Agency : Ministry of Finance
TA Amount (\$'000) : 650.0
Business Opportunities Listing : 26 September 2016
Date Approved : 14 September 2016

The project will improve public health and environmental conditions within the area of the Issyk-Kul Lake by expanding and improving wastewater systems in selected urban centers around its shoreline. The government has sought ADB assistance to improve environmental management and urban services in the region through the Issyk-Kul Sustainable Development Project (ISDP), which is being implemented in the lakeshore towns of Cholpon-Ata, Balykchy and Karakol. Building on the ISDP that developed sewage collection systems, the project will complete the sewerage systems in these towns by developing a collection system in Cholpon-Ata and wastewater treatment systems in all three towns. It will also improve environmental monitoring procedures, and further strengthen the institutional capacity of implementing and regulatory institutions. The project will improve health, hygiene and sanitation conditions of the residents in the selected towns of the Issyk-Kul region. The outcome is improved wastewater services in the selected towns of Issyk-Kul oblast. The TA will assist the government to conduct feasibility study, due diligence, and safeguard assessment for the proposed ISDP II project, particularly to ensure that the bank's safeguard standard should be strictly implemented in the Issyk-Kul area. Moreover, to ensure long term financial and environmental sustainability, initial cost recovery actions and tourism development activities will be identified.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9179-MYA: Power Network Development

Executing Agency	:	Ministry of Electricity and Energy
TA Amount (\$'000)	:	1,500.0
Business Opportunities Listing	:	28 September 2016
Date Approved	:	26 September 2016

The future loan project will construct three new 230 kilovolt (kV) transmission lines (approximately 480 km) with five 230 kV substations, 60 medium voltage substations, and 900 km distribution lines in five regions in Myanmar. It will install computerized systems to improve operational efficiency and reduce losses in the transmission and distribution systems. It will also contribute to increasing electricity supply to support inclusive and sustainable development, and in achieving the country's plan of universal electricity access by 2030. The outputs of the project will be: (i) additional three new 230 kV transmission lines and five new substations with capacity of 700 megavolt-amperes; (ii) new distribution facilities added to the distribution systems in Ayeyarwady, Bago, Mon, Kayin, and Rakhine regions; and (iii) a new computerized asset management system and computerized customer billing system. The TA will: (i) confirm the rationale and priority of the transmission and distribution components respectively; (ii) prepare technical design and cost estimates for subprojects and propose appropriate contract packaging and procurement plans; (iii) conduct economic and financial due diligence; (iv) undertake social impact assessment, capacity, and governance assessment; (v) carry out social, resettlement, and environment safeguard due diligence and stakeholders consultation in accordance with 2009 ADB Safeguard Policy; and (vi) prepare engineering design and bidding documents, and assist in preparing request for proposal for project implementation consultants.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9184-MYA: Rural Roads and Access

Executing Agency	:	Ministry of Agriculture, Livestock and Irrigation
TA Amount (\$'000)	:	1,000.0
Business Opportunities Listing	:	3 October 2016
Date Approved	:	26 September 2016

It was estimated that 20 million people in Myanmar live in villages without access to an all-season road, which is over half of Myanmar's rural population. The project will improve about 350 km of rural roads in two pilot regions, Ayeyarwaddy and Sagaing, and develop the technical bases and capacity for the nationwide rural roads and access program, part of which will be financed by ADB. Its outcome is improved accessibility of rural people. The TA will: (i) help select target roads; (ii) prepare basic engineering designs; (iii) conduct ADB's due diligence in financial, social and environmental areas; (iv) prepare required due diligence documents; and (iv) support early procurement. It will cover engineering, economic, financial, social and environmental aspects, as well as procurement preparation and support. Engineering will be carried out in sufficient detail to carry out the procurement of the works.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9144-NEP: Power Transmission and Distribution Efficiency Enhancement

Executing Agency	:	Nepal Electricity Authority
TA Amount (\$'000)	:	1,500.0
Business Opportunities Listing	:	28 July 2016

Date Approved : 22 July 2016

The project will be ADB's first investment in Nepal that will specifically target energy efficiency through distribution system enhancement to meet the immediate needs of electricity distribution network in Kathmandu Valley and strengthening of associated transmission lines by the Nepal Electricity Authority (NEA). Major sections of the existing distribution network in the valley were constructed decades ago and despite significant increase in electricity demand and the number of consumers, minimal reinforcement of the distribution network has been carried out. The project will enhance the distribution capacity and improve reliability and quality of electric supply in the Kathmandu Valley by reducing distribution system overloads and technical and commercial losses, which currently is about 20%. It will also support the implementation of other system efficiency upgrades and energy efficiency measures such as advanced grid operations software, distribution system automation, and smart metering. System efficiency improvements and loss reductions will improve NEA's financial health, while customers will benefit from a reliable and improved quality of electricity supply and reduced dependence on diesel generators to meet their daily electricity needs. Operational upgrades will also facilitate integration of new generation capacity scheduled to come on-line during the next three to four years. The TA will conduct project due diligence covering technical, economic, financial, procurement, and social and environmental safeguards, as well as preparing medium to long term planning for the electricity distribution enhancement in Kathmandu Valley. It will include some capacity development support essential to prepare for and expedite implementation.

Status of Consulting Services : Consultant has been fielded.

TA 9171-NEP: Second Kathmandu Valley Water Supply Improvement

Executing Agency : Asian Development Bank
TA Amount (\$'000) : 1,000.0
Business Opportunities Listing : 16 September 2016
Date Approved : 15 September 2016

The project will build on the ongoing efforts of the Government of Nepal and ADB to further improve water supply services and planning in the Kathmandu Valley. It will improve the access and quality of water supply services by: (i) financing the remaining investment gaps for Melamchi water source development; (ii) rehabilitating and expanding the water supply distribution system; and (iii) further strengthening the Kathmandu Valley's water supply and sanitation institutions. The loan will finance: (i) priority water source development works, including supply of additional 340 million liters per day of treated water; (ii) critical rehabilitation works; and (iii) distribution network improvements to address the remaining supply gap and provide 24-hour drinking water supply to 70% of the households in the Kathmandu Upatyaka Khanepani Limited service area. It will also support the planning for sustainable development of smaller and more localized sources to supplement the larger scheme and meet the remaining supply gap. The TA will: (i) review technical, economic, institutional, and financial viability; (ii) review and update safeguard measures; (iii) review civil works contract documents and prepare consulting packages under the loan; (iv) prepare all requirements to meet the processing criteria for a loan project; and (v) support loan start-up activities.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9153-PAK: Central Asia Regional Economic Cooperation Railway Connectivity Investment Program

Executing Agency	:	The Ministry of Railways
TA Amount (\$'000)	:	1,000.0
Business Opportunities Listing	:	15 August 2016
Date Approved	:	10 August 2016

The multitranche financing facility (MFF) will improve the railway sector in Pakistan by making the railway transport system more efficient and competitive. The outcome will be improved railway corridor of Lahore–Peshawar and improved Pakistan Railways (PR)' institutional efficiency. The Lahore–Peshawar railway line connects major cities in Punjab, Pakistan's wealthiest and most populous province. Peshawar is a key point in transit trade with Afghanistan and beyond to Central Asia. The entire line is part of the Central Asia Regional Economic Cooperation Corridor 6c. The project outputs include: (i) approximately 411 km of upgraded and dualized railway track for the Lahore–Peshawar section of ML-1 together with new signaling and telecommunications system (including power supply for these systems) and upgraded passenger facilities at Lahore, Rawalpindi, and Peshawar stations; (ii) 52 km of newly constructed double-track rail line linking Kaluwal and Pindora; and (iii) PR's modernized accounting system with the accounting data and information migrated into the new accounting system. The TA will: (i) develop an MFF and tranche projects suitable for ADB financing; (ii) conduct due diligence for technical, economic, financial, social, and environmental viability of the 1st tranche project and prepare required due diligence documents. It will also conduct a feasibility assessment for the 1st tranche project including preliminary engineering designs; cost estimates; technical, financial, economic, and socioeconomic analysis; environmental analysis; social impact assessment; a study for initial benchmark performance indicators; and preparation of project evaluation and monitoring framework.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9185-PAK: Hydropower Development Investment Program

Executing Agency	:	Pakhtunkhwa Energy Development Organization
TA Amount (\$'000)	:	1,750.0
Business Opportunities Listing	:	21 October 2016
Date Approved	:	29 September 2016

The investment program aims to: (i) improve energy security by increasing the clean energy share in the energy mix currently dominated by thermal energy; (ii) promote private sector investments in hydropower development in the province of Khyber Pakhtunkhwa (KPK) which has the most hydro potential in the country; and (iii) build capacity and understanding on climate change impacts, adaptation and mitigation measures. It is structured to facilitate investments in the development of hydropower plants by utilizing both public and private sector investments and leveraging ADB funds through syndication and other financial structures. ADB catalytic financing in the long-term will support and create a business-friendly environment making hydropower plant (HPP) projects bankable for the private sector to mobilize and invest through debt or equity. The program's objectives will be achieved by: (i) developing run-of-the-river HPPs with individual plant capacity not exceeding 400 megawatts in KPK; (ii) promoting private sector investments by providing access to different ADB credit enhancement products; (iii) mitigate greenhouse gases to meet the Intended Nationally Determined Contributions of Pakistan; and (iv) enhancing capacity for climate change risk management in hydropower production. The program will be implemented in four tranches to cover multiple sub-projects in

keeping pace with the maturity of the private sector investment. The TA will: (i) review the technical, economic and financial viability of the sub-projects and finalize the project rationale, scope, cost, schedule, implementation arrangements, risks and mitigation measures; (ii) ensure the compliance with ADB's Safeguard Policy Statement (2009) and identify mitigation measures; and (iii) assist the executing agency in the independent power producer solicitation and selection process, approval and procurement of contractor and project implementation consultant.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9194-PAK: Khyber Pakhtunkhwa Provincial Roads Improvement

Executing Agency : Communication and Works Department, KP
TA Amount (\$'000) : 1,000.0
Business Opportunities Listing : 27 September 2016
Date Approved : 30 September 2016

The project will improve key sections of the provincial highway network in the Khyber Pakhtunkhwa (KP) located in the northwestern region of the country. It will assist the Pakhtunkhwa Highways Authority (PKHA) in: (i) rehabilitating about 350 km of provincial highways in KP; (ii) carrying out routine and periodic maintenance of about 200 km provincial highways combined with connecting district roads using performance-based maintenance contracts; and (iii) enhancing the functionality of road asset management system (RAMS). By 2020, the project proposes that about 16% of the provincial highways shall be rehabilitated to 3.5 International Roughness Index (IRI), thus bringing them to acceptable levels. The scope of works shall include resurfacing dual lanes, improving drainage, structures, safety aspects of the road and making the highways climate resilient. This will reduce the operating costs borne by road users, and reduce future road maintenance costs. The TA will carry out the required due diligence and will complete the technical, economic, financial, social, and environmental due diligence in accordance with ADB's requirements for the project. It will also assist the executing agency in developing the required documentation for country resource allocation.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9141-PRC: Xinjiang Hetian Comprehensive Urban Development and Environmental Improvement

Executing Agency : Xinjiang Uygur Autonomous Region Government
TA Amount (\$'000) : 750.0
Business Opportunities Listing : 26 July 2016
Date Approved : 25 July 2016

The project will continue ADB's support of the sustainable urban development of cities in Xinjiang Uygur Autonomous Region. Hetian, located in the southernmost part of the region is a historic, ethnic, and growing city, whose urban infrastructure and services are struggling to keep up with population growth. The Hetian City Government has completed an urban development master plan (UDMP) which focuses on development and rehabilitation across the city, and specifically on two neighborhoods, Dabazar and Kunlun Lake District. While the UDMP has been completed, the project will provide recommendations for improving it while identifying key infrastructure investments to ensure that development meets the needs of current and future residents. The project's impact is aligned with the national objective of improving the environment and social conditions in the western provinces of People's Republic of China and the local

objective of developing a well-off, harmonious society in Hetian city which is both environmentally and economically sustainable. The outcome will be the improvement of living conditions in line with a revised and inclusive UDMP. The project will deliver five outputs: (i) renovated and expanded water supply, wastewater, and water reclamation infrastructure; (ii) improved environmental solid waste infrastructure and equipment; (iii) constructed urban transport infrastructure; (iv) improved public transportation system and equipment; and (v) improved capacity and skills developed. The TA will: (i) design a project suitable for ADB financing, identifying appropriate project components to achieve the desired results; (ii) review proposed components based on detailed due diligence assessment of technical, resettlement, social, economic, financial, environmental, public finance, procurement, and other institutional aspects and risks; and (iii) improve capacity on project development and implementation and increase involvement of affected persons.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9142-PRC: Green Financing Platform for Accelerated Air Quality Improvement in the Greater Beijing-Tianjin-Hebei Region

Executing Agency : State Development & Investment Corporation
TA Amount (\$'000) : 500.0
Business Opportunities Listing : 26 July 2016
Date Approved : 25 July 2016

The project will strengthen the implementation of policy actions throughout the greater Beijing-Tianjin-Hebei (BTH) region through targeted investment in subprojects aligned with key policy actions. It will reinforce and scale up action on such policies not only in Hebei but across the greater BTH region. It will also establish a greater BTH region dedicated green financing platform (GFP) for green investments with a clear focus on small and medium-sized enterprises (SMEs) and, where necessary to achieve the project's goals, in large enterprises. The proposed GFP will introduce innovative financial instruments such as: (i) debt financing; (ii) credit enhancement and loss guarantee support; and (iii) mezzanine financing or preference share investments in promising SMEs to enable access to commercial financing. It will also introduce international experiences and bring advanced technologies to the greater BTH region to help industries become low-carbon, low-emission and highly efficient, thereby improving the air quality. The GFP will be an open platform such that commercial banks, other development partners, and agencies can participate in the platform. It will also assist in establishing a project development facility to provide upstream support to help prepare a healthy pipeline of potential projects in traditionally difficult areas, such as, SMEs, and agriculture waste utilization to improve such projects' readiness and build capacity of entities to develop investment ready projects. The TA will establish the institutional, legal, and financial arrangements for the proposed financing platform. It will be implemented in two phases. The first phase will be conducted by a team of individual experts to work on the project design and due diligence of the financial intermediation loan. The second phase will be implemented by another team of experts to prepare the subsequent projects and conduct due diligence assessment on financial, economic, environment, land acquisition and resettlement, social and gender development, governance, and procurement.

Status of Consulting Services : Consultants have been fielded.

TA 9186-PRC: Qingdao Rural Waste-to-Energy

Executing Agency : Qingdao Municipal Government

TA Amount (\$'000) : 500.0
Business Opportunities Listing : 27 September 2016
Date Approved : 29 September 2016

The project will demonstrate a comprehensive utilization of agricultural and livestock waste-to-energy for heating and cooking in 60 new rural communities in rural Qingdao to be implemented and operated by the Qingdao Energy Group (QEG), the largest local state-owned energy company in Qingdao. During the project preparation, ADB will establish a knowledge and technical exchange platform between the QEG and advanced countries in using biogas and biomass such as Germany, Japan, Sweden, and the United States. This will help Qingdao gain further knowledge and experience in: (i) related policies, institutional laws and regulations; (ii) biogas and biomass technologies; and (iii) related project experiences. The impacts will be: (i) narrowed rural-urban living standard gap; and (ii) improved air quality and rural natural environment. The outcome will be reduced carbon and pollutants emission from heating and cooking in rural areas in Qingdao. The output will be waste-to-energy system in rural areas in Qingdao. The TA will: (i) conduct the due diligence on several aspects of the proposed loan; and (ii) facilitate learning opportunities in emerging biogas and biomass technologies and business practices.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9192-REG: Fourth Greater Mekong Subregion Corridor Towns Development

Executing Agency : Ministry of Public Works and Transport
TA Amount (\$'000) : 1,800.0
Business Opportunities Listing : 5 October 2016
Date Approved : 30 September 2016

The project will support the governments of Cambodia and the Lao People's Democratic Republic (PDR) in enhancing the competitiveness of towns located along economic corridors in the Greater Mekong Subregion (GMS). It will result in improved urban services in the participating towns through the preparation of strategic local economic development plans (SLEDP) and investment in basic urban infrastructure including drainage, sanitation, solid waste management, urban roads, river bank protection, and public gardens. The project will support the first four strategic thrusts of the GMS Strategic Framework 2012–2022: (i) strengthening infrastructure links; (ii) facilitating cross-border trade, investment, and tourism; (iii) enhancing private sector participation and competitiveness; and (iv) developing human resources. It will represent the fourth phase of the GMS Corridor Towns Development Initiative, which supports urban development along economic corridors connecting some of the GMS' largest cities. Participating towns in Cambodia, located along the Southern Economic Corridor, include: (i) Kampong Cham; (ii) Krong Kep; and (iii) Stung Treng. In Lao PDR, the towns located along the North-South Economic Corridor include: (i) Paksan; (ii) Thakhek; and (iii) Xay. The strategic location of the corridor towns provides the stimulus for increased trade and investment in the region and will create incentives for local economies in the town's hinterlands. Given these development opportunities, and with the rapid growth of the urban population and expansion of these areas, the six towns included in the project are facing demands for urban infrastructure and essential urban services to strengthen their competitiveness and support wider economic growth in the region. The development of environmental infrastructure will promote green growth and climate resilience of these towns in the future. The TA will assist the governments of Cambodia and the Lao PDR to prepare feasibility studies, engage in capacity building programs and prepare other documentation required by ADB and the governments. The major outputs of the TA will be: (i) SLEDPs for each town; (ii) feasibility studies confirming that the

selected investment programs are technically, financially, economically, socially, and environmentally feasible, gender responsive and addressing climate change resilience and integrated disaster risk management.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9175-TKM: Power Sector Development

Executing Agency : Asian Development Bank
TA Amount (\$'000) : 225.0
Business Opportunities Listing : 3 October 2016
Date Approved : 22 September 2016

The government plans to increase electricity export to about 6,000 gigawatt hours by 2025, meeting an increasing demand from its existing clients, Iran and Afghanistan, and new client Pakistan (through Afghanistan). The central planners designed the Turkmenistan power system with an export orientation because of its unique setting—a sparsely populated country surrounded by Afghanistan, Iran, Uzbekistan and the Caspian Sea. One of the largest potential energy export market, Pakistan with its 190 million population, is accessible through Afghanistan for both gas and electricity export. Turkmenistan's economic prosperity hinges on energy export, which contributed to about 55% of the national gross domestic product. The export income allowed the government to build profitable power utilities and improve the livelihood of its population by providing electricity to all customers including more than half of the population that lives in rural areas with agriculture as their livelihood. The project will support the end use energy and efficient transmission infrastructure for electricity export. The impact of the project will be improved economic growth and sector profitability and a diversified economic structure and export base. The outcome will be a maximized regional cooperation and power export opportunities. The TA will support the project executing and implementing agencies to prepare the detailed technical specifications, prepare bidding documents, undertake governance assessment, train on contract management and document readiness of the project from the safeguards compliance's viewpoint.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9148-UZB: Electronic Healthcare Development

Executing Agency : Ministry of Health
TA Amount (\$'000) : 800.0
Business Opportunities Listing : 9 August 2016
Date Approved : 5 August 2016

The Project will support the Ministry of Health (MOH) to strengthen its health system by improving health information and governance by establishing a national digital health management information system (HMIS), which will be embedded into the government's broader e-government platform. It will create: (i) an integration platform to ensure interoperability between different operating systems within the health system (e.g., allow a laboratory to share results with the disease surveillance system); (ii) an information security system to ensure information is protected from unauthorized access, use disclosure, disruption, modification or destruction; (iii) the enterprise resource planning system to help health facilities integrate functions like supply chain and human resource management; (iv) a unified authentication system for data exchange, in a secure unified way, with the broader e-government system; (v) specialized information systems which will transcribe medical diagnoses and procedures from health written paper record into code to create individual digital patient records; (vi) a regional

data processing facility to coordinate service delivery, allowing clinicians providing care at one facility to obtain information on medical interventions provided at another facility; (vii) a customer relationship management system, where a health facility can stay in contact with patients to receive reminders about immunization or health checks; and (viii) a geocoding system to provide geographical population analysis and research to enable better planning, targeting of services and analysis of their utilization. The project's impact is aligned with improved quality of and access to health services in Uzbekistan. The outcome will be the improvement of the reliability of health data. The TA will: (i) review the technical, economic and financial viability of the project and ascertain its rationale, scope, cost, schedule, implementation arrangements, risks and mitigation measures; (ii) ensure compliance with ADB Safeguard Policy Statement and identify institutional strengthening; and (iii) assist the project executing and implementing agencies in advance contracting for the ensuing loan project.

Status of Consulting Services : Individual consultant has been fielded; recruitment of a consulting firm is being processed.

TA 9176-UZB: Horticulture Value Chain Development

Executing Agency : Rural Restructuring Agency
TA Amount (\$'000) : 225.0
Business Opportunities Listing : 30 September 2016
Date Approved : 26 September 2016

The project will provide a loan to the Republic of Uzbekistan to channel through qualified participating financial institutions (PFIs) who will on-lend to horticulture-related farmers and businesses for fixed asset investments such as intensive orchards, cold storages, processing and packaging equipment. It will address the critical constraint which is the lack of long term resources in the Uzbekistan banking system. Since horticulture sector has high value produce, the project will contribute significantly to creating sustainable enterprises, increasing employment, and improving household income. The project's impact will be aligned with contribution of the horticulture sector to inclusive economic growth and rural employment. The outcome will be increased production and marketing of horticultural products. The TA will help prepare: (i) the national feasibility study (NFS) report in form and substance required by the prevailing regulations of the government; and (ii) the project processing assistance and implementation startup support for the financial intermediary loan to the government.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9139-VIE: Distribution Grid Development Sector for Viet Nam Power Corporations

Executing Agency : Asian Development Bank
TA Amount (\$'000) : 1,000.0
Business Opportunities Listing : 22 August 2016
Date Approved : 15 July 2016

The project will support the Socialist Republic of Viet Nam in the implementation of its seventh Power Development Plan 2011–2020 (PDP VII) to provide adequate and reliable power supply that will sustain economic growth, and expand employment and income-generating opportunities in Viet Nam. It will assist part of the government's investment program in strengthening the power distribution system, managed by the five distribution power corporations (PCs) of state-owned Vietnam Electricity (EVN). The impact will be increased economic activities, jobs, and income in Viet Nam from improved power supply by 2030. The

outcome will be power supply with adequate capacity, increased reliability and quality, and improved efficiency. The outputs are: (i) upgraded and expanded 220 kilovolt (kV) and 110 kV distribution networks; (ii) upgraded and expanded medium voltage distribution networks of different voltage levels ranging from 6 kV to 35 kV; and (iii) strengthened capacity of the PCs in distribution network planning, advanced technologies, project design, and project management. The TA will assess all aspects of the project and provide sufficient data, information and inputs to prepare project appraisal documents for loan approval by ADB and project documents required by the PCs for obtaining approval from EVN and the government.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9147-VIE: Water Efficiency Improvement in Drought Affected Provinces

Executing Agency	:	Ministry of Agriculture and Rural Development
TA Amount (\$'000)	:	1,050.0
Business Opportunities Listing	:	3 August 2016
Date Approved	:	1 August 2016

The project aims to improve agriculture water productivity (crop per drop) by increasing water use efficiency in irrigated agriculture in five drought affected provinces in the Central Highland and South Central Coastal Regions: Binh Thuan, Dak Lak, Dak Nong, Khanh Hoa, and Ninh Thuan. The impacts of the project are enhanced productivity and competitiveness, climate resilience and disaster preparedness in the agriculture sector. The outcome is improved water productivity of irrigated agriculture in the five drought affected provinces. The outputs are: (i) improved delivery of irrigation management services; (ii) modernized climate resilient irrigation systems; and (iii) improved on-farm water management practices. The TA will prepare the feasibility studies of individual subprojects and the overall project, incorporating climate change responsive measures in the design of the project. It will prepare the project documents required to support the processing and approval of the project by ADB, and provide start-up support to the government to mobilize the implementation consultants and advance implementation actions.

Status of Consulting Services : Consultants have been fielded.

(B) TECHNICAL ASSISTANCE PROJECTS NOT EXCEEDING \$225,000

TA 9136-REG: Developing Capacity of Public Sector Internal Audit Institutions

Type of Technical Assistance	:	Capacity Development
Executing Agency	:	Asian Development Bank
TA Amount (\$'000)	:	225.0
Business Opportunities Listing	:	21 October 2016
Date Approved	:	15 July 2016

The TA will provide advisory services to selected public sector internal audit offices in selected developing member countries (DMCs) by helping them improve internal audit capability and effectiveness. Selection criteria and process will be set up in consultation with the internal audit functions, concerned government institutions and relevant ADB divisions and offices. Preliminary selection criteria for participating DMCs include: (i) government-mandated internal audit function in the public sector; (ii) weak internal audit capacity/function based on the assessment done by regional departments; and (iii) no ongoing ADB capacity development assistance of similar scope. The expected impact of the TA will be improved governance, accountability and transparency in the internal audit function of public sector organizations. The expected outcome will be enhanced internal auditing practices and processes in the public sector of the selected DMCs.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9159-REG: Legal Readiness for Climate Finance and Climate Investments

Type of Technical Assistance	:	Capacity Development
Executing Agency	:	Asian Development Bank
TA Amount (\$'000)	:	225.0
Business Opportunities Listing	:	1 September 2016
Date Approved	:	16 August 2016

At the 21st Conference of Parties to the United Nations Framework Convention on Climate Change (UNFCCC) held in December 2015 in Paris, 195 nations agreed to reduce carbon emissions to limit the rise in the global average temperature. The key building block of the Paris Agreement is the bottom-up process of having parties to the UNFCCC submit their Nationally Determined Contributions (NDCs), setting out high-level policy plans to achieve emission reduction within their countries to contribute towards the “well below 2 degrees centigrade” target. Understanding the legal readiness to access climate finance is critical because the ability to attract investment, whether public or private, necessary to implement the NDCs is directly linked to the strength of the enabling environment based on predictable, transparent and enforceable legal and regulatory framework of the DMCs. The TA seeks to strengthen the legal and regulatory capacities of DMCs to meet their mitigation commitments and adaptation needs under the Paris Agreement. It will help deliver on ADB’s commitment to double the annual climate financing to six billion dollars by 2020 and is part of ADB’s program in support of NDCs. The diagnostic studies will identify various legal and regulatory barriers to accessing international climate finance and to implementing NDCs, which is an essential step to ensuring that DMCs have adequate financing means to achieve their climate targets.

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9174-REG: Strengthening the Pacific Islands Forum Secretariat Regional Economic Policy Mandate in the Pacific

Type of Technical Assistance	:	Capacity Development
Executing Agency	:	Asian Development Bank
TA Amount (\$'000)	:	225.0
Business Opportunities Listing	:	25 October 2016
Date Approved	:	21 September 2016

The Pacific Island Forum Secretariat's Economic Governance Group (EGT) provides economic policy advice to Forum Economic Minister's Meeting (FEMM) on a number of regional economic issues including macroeconomic policies, private sector development (in conjunction with the Private Sector Unit and Pacific Trade and Investment network), development financing, and public financial management. Technical support to supplement the resources and capacity of the EGT is required because the FEMM agenda is dense and cross-cutting, and decisions made require prioritization and follow through. Also, there are often competing demands on the EGT, which could affect their ability to deliver high quality and timely economic policy advice to members. The TA will provide a short-term consultant to the EGT to improve the effectiveness and the efficiency of the FEMM. This includes assisting in the prioritization of the FEMM agenda and assisting the EGT with the delivery of key FEMM mandates, as well as other relevant regional economic issues in consultation with the Economic Adviser and Director Economic Governance of the Forum Secretariat. The impact of the TA will be sound regional and national economic decision making based on high quality economic policy advice and assistance to the Pacific Island Forum members. The outcome will be strengthened regional economic policy mandate in the Pacific through improved effectiveness and the efficiency of the FEMM.

Status of Consulting Services : Recruitment of consultants is being processed.

(C) TECHNICAL ASSISTANCE CLUSTER SUBPROJECTS

TA 9129-IND: Strengthening Climate Change Resilience in Urban India - Strengthening Smart Water Management and Urban Climate Change Resilience in Tamil Nadu (Subproject 1)

Type of Technical Assistance	:	Capacity Development
Executing Agency	:	Tamil Nadu Urban Infrastructure Financial Services Ltd.
TA Amount (\$'000)	:	1,500.00
Business Opportunities Listing	:	13 July 2016
Date Approved	:	4 July 2016

The subproject will support the Government of Tamil Nadu in two key areas: (i) conduct of advanced basin-wide study of water-related disaster risks considering climate change in Greater Chennai City Corporation and other selected towns in Tamil Nadu, resulting in strategic and actionable recommendations to strengthen urban water management (drinking water supply, sewage collection, wastewater treatment, drainage, and water security) and flood early warning systems; and (ii) technical support to the Government of Tamil Nadu in the implementation of its recently launched Sustainable Water Security Mission, including identification of smart, innovative and sustainable water management projects, and support for institutional and capacity strengthening measures, some of which can be considered under an ADB investment program. The main objective of the TA is to improve the understanding of water-related disaster risks (both floods and droughts) considering climate change, and to strengthen the capacity of the state and local governments to more effectively manage and respond to water-related risks. The outcome will be a technical study with clear and actionable recommendations to support improved water management in Chennai and other selected urban areas of Tamil Nadu, and related capacity building activities (workshops, trainings, exposure visits).

Status of Consulting Services : Recruitment of consultants is being processed.

TA 9149-REG: Asian Development Outlook 2016–2018 - Asian Development Outlook 2017 (Subproject 2)

Type of Technical Assistance	:	Research and Development
Executing Agency	:	Asia Development Bank
TA Amount (\$'000)	:	1,200.0
Business Opportunities Listing	:	4 August 2016
Date Approved	:	5 August 2016

The subproject is part of the Cluster TA that will support the preparation of the flagship publication, the Asian Development Outlook (ADO), for 3 years. This publication includes staff analyses of the macroeconomic prospects for all of ADB'S 45 developing member countries (DMCs), collectively referred to as developing Asia, and provides insights into the current economic issues the region faces. Its content provides vital intelligence to policy makers in DMCs, ADB Management and shareholders, and researchers globally, and underpins ADB operational decisions. The ADO showcases ADB's knowledge and expertise about the region. Its theme chapters can contribute to the discussion of such important development challenges for a transforming Asia and the Pacific. Recent themes have included confronting rising inequality in Asia, improving weak governance and institutional capacity, safeguarding financial stability, addressing persistent gender disparities, invigorating Asia's potential growth, and climate change in Asia. ADO 2017 will tackle the challenges that confront middle-income

economies in Asia, while ADO 2017 Update will shed light on public-private partnerships.

Status of Consulting Services : Consultants have been fielded.

TA 9172-REG: Selected Evaluation Studies and Outreach for 2017–2018 (Subproject 1)

Type of Technical Assistance : Research and Development
Executing Agency : Asia Development Bank
TA Amount (\$'000) : 2,500.0
Business Opportunities Listing : 25 August 2016
Date Approved : 15 September 2016

The subproject is the first of three subprojects under the Cluster TA approved on 27 July 2016. High- and mid-level evaluations and outreach activities for funding under the subproject seeks to improve ADB strategies, policies, processes, and operations subsequently benefiting its DMCs in Asia and the Pacific. Subproject 1 will draw from the Board approved 2016-2018 work program of the Independent Evaluation Department (IED) and, where appropriate, its next rolling program for approval in December 2016. High- and mid-level evaluations complement project evaluations and give a view to assessing the operations and directions of the ADB. IED's knowledge and country programs give feedback on the development results and effectiveness of ADB. This advice is needed for accountability to stakeholders (including Management and Board of Directors) and to strengthen ADB as a learning organization. To keep its strategic relevance and operational utility, IED's evaluation focus is continuously refined to align with the development landscape and to recent or upcoming changes in ADB. With the merger of the Asian Development Fund and ordinary capital resources in 2017, it will be critical to have an evaluative perspective of the experience in ADB's various business like energy, urban and private sector operations. Likewise, evaluations on possible areas of expansion like support to micro-, small- and medium-sized enterprises and engagement with state-owned enterprises will provide insights on new business opportunities for ADB. Further, with the enhanced financial capacity, a review of the financing modalities, like policy-based lending, needs to be undertaken. The selection and design of evaluations should also take into account recent global developments like the Sustainable Development Goals and the 2015 Paris Climate Conference. Evaluations should consider how ADB will engage with middle income countries (MIC) as most of its DMCs will be MICs in the near future. High-level thematic and sector evaluation work will need to build on evaluations of country and project performance.

Status of Consulting Services : Consultant has been fielded.