



Board of Directors

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Country Operations Business Plan: India, 2020–2022

Attached for information is a paper on the above subject.

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Country Operations Business Plan

September 2019

India
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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 26 July 2019)

Currency unit	–	Indian rupee/s (₹)
₹1.00	=	\$0.01448
\$1.00	=	₹69.0611

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
CPS	–	country partnership strategy
PSM	–	public sector management
RBL	–	results-based lending
TA	–	technical assistance

NOTE

In this report, “\$” refers to United States dollars.

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I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. The country operations business plan (COBP) for India, 2020–2022 is the third under the Asian Development Bank (ADB) country partnership strategy (CPS) for India, 2018–2022. The COBP is well aligned with the CPS, which aims to support India in accelerating its inclusive economic transformation. It operationalizes the CPS’ three pillars: 1. boosting competitiveness to create jobs, 2. providing inclusive access to infrastructure networks and services, and 3. addressing climate change and increasing climate resilience. About 66% of the program will contribute to pillar 1, 65% to pillar 2, and 82% to pillar 3. Likewise, the COBP is oriented towards the CPS focus areas of enhancing economic corridors and engaging more with low-income states, with 23% of the program allocated for the development of the East Coast Economic Corridor, and 35% for supporting low-income states.

2. The six sectors of ADB operations in India—transport; energy; water and other urban infrastructure and services; agriculture, natural resources, and rural development; education and health; and finance and public sector management (PSM)—are the foundation for the COBP. The indicative program will also extend to social sectors such as education and health, as it attends to the seven operational priorities of ADB’s Strategy 2030: addressing remaining poverty and reducing inequalities, accelerating gender equality, tackling climate change, making cities more livable, developing rural areas, strengthening governance, and fostering regional cooperation.¹

3. The program also incorporates recent discussions and formulation of support, including through robust upstream analytical studies, to new focus areas of the Government of India, including road safety; micro, small, and medium-sized enterprises (MSMEs); drinking water supply; and corridor and logistics development.

II. INDICATIVE RESOURCE PARAMETERS

4. India, a group B developing member country, is eligible for regular ordinary capital resources lending. The indicative resources available for commitment during 2020–2022 for sovereign operations total \$8.33 billion. Against this, the firm lending pipeline proposed in the COBP totals \$12.39 billion (Appendix 3, Table A3.1), representing an over-programming of 49%, in response to the government’s request for an annual sovereign lending of at least \$3 billion and further scaling up, while ensuring high project readiness at entry and effective implementation.² Cofinancing and funding from other sources will be explored. In terms of sectoral allocation, transport accounts for 42%; water and other urban infrastructure and services 24%; energy 12%; agriculture, natural resources, and rural development 9%; PSM 7%; and education and health 6%.³

5. The program endeavors to strike a balance between supporting relatively undeveloped states’ needs for infrastructure, crucial economic and social services, and capacity building, and supporting the more advanced states’ requirements for inclusive investments. It also seeks to help India to better cooperate and integrate with countries in the region, both as an ADB operational priority and a policy priority for India. Accordingly, the indicative lending pipeline covers a wide spectrum of regions, subsectors, and interventions. This presents a good opportunity to introduce more diversified lending instruments, leverage cofinancing resources, and phase assistance to balance resource commitment with resource availability. The program will (i) be complemented by ADB’s private sector operations in India; and (ii) deliver integrated solutions that combine expertise across a range of sectors and themes, and through a mix of public and private sector operations in the spirit of the “One ADB” approach.

¹ ADB. 2018. *Strategy 2030: Achieving a Prosperous, Inclusive, Resilient, and Sustainable Asia and the Pacific*. Manila.

² Final amount of commitment is subject to resource availability and project readiness.

³ The Country Assistance Results Areas for each sector is detailed in Appendix 1.

6. ADB's nonsovereign operations will focus on innovative and inclusive infrastructure, and catalyze the development of the finance sector. Key areas of support will be transport, power, urban infrastructure, agribusiness, health, education, small and medium-sized enterprises, affordable housing, and financial inclusion. In addition to direct financing, private equity funds that operate in ADB's strategic priority areas will be supported. Where possible, synergy with sovereign operations will be maintained, and priority will be given to collaborating with other ADB departments for undertaking high-impact "One ADB" projects.

7. The technical assistance (TA) program is designed to facilitate the effective delivery of ADB financial assistance via project preparation, capacity building, and knowledge support. Further, the nonlending pipeline has been streamlined to the extent possible, clubbing together transaction TA projects for priority sectors to enable quick and flexible deployment of resources for preparation of multiple projects within the sector. The indicative assistance pipeline for lending and nonlending products and services for 2020-2022 are listed in Appendix 3, Table A3.3.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

8. The transport sector program is augmented and diversified beyond traditional transport projects, by including a results-based lending (RBL) project on road safety and a multimodal transport project in Maharashtra. Further additions to the program are metro-rail projects in Bangalore and Chennai, a sequel state highway project in Bihar, and a road sector project in Assam. A state highway project in Uttarakhand and the Tuticorin port project have been dropped.

9. Significant additions to the water and urban services program are the National Drinking Water Supply Improvement Program, and two projects in Tamil Nadu: inclusive urban housing, and stormwater drainage in Chennai. Previously proposed urban projects in Gujarat, a surface water project in Patiala City, and a water supply project in Bihar were dropped.

10. The energy sector program has four significant additions. Among these is a rural high voltage distribution system project in Maharashtra, and the Bangalore Smart Energy-Efficient Power Distribution Project, a "One ADB" project to be taken forward jointly by ADB's South Asia Department and Private Sector Operations Department. The two other projects are the Power Distribution Sector Improvement Project in Meghalaya and the Power Generation Upgradation and Distribution Reliability Improvement Project in Tripura.

11. The agriculture, natural resources, and rural development program is expanded by including a horticulture development project in Himachal Pradesh, which will be preceded by a project readiness financing facility, and follow-on loans including coastal protection and agribusiness projects in Maharashtra and water resources projects in Karnataka and Tamil Nadu. The Meghalaya rainwater harvesting project and Gujarat irrigation project have been withdrawn.

12. The human development program is also being expanded and diversified, following ADB's Strategy 2030, building on the experience of state-level skill projects and the national urban primary health project, to include a new school education program (RBL) and phase 2 of the Kerala Skills Development Program (RBL).

13. The PSM sector pipeline includes a state-level public finance management program in West Bengal, a major RBL for the development of MSMEs, and a PBL to support industrial corridor development.

14. The TA pipeline is aligned with the lending program, provides analytical and knowledge underpinning, and is streamlined by bringing in sectoral umbrella TA projects to enable a nimble response for assessing new investment financing possibilities.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2020–2022	Changes from Last COBP
1. Transport			
<p>Better connectivity between domestic and international markets</p> <p>Better connectivity in rural and urban areas</p> <p>Environmentally sustainable transport system</p> <p>Job creation and income-earning opportunities improved</p>	<p>Railway infrastructure, including signaling, and systems; expressways; national highways; provincial, district, and rural roads; ports; urban transport; urban transport planning and reforms; PPPs; and multimodal transport facilities</p>	<p>Amount: \$5.198 billion (regular OCR) and \$1.250 billion (cofinancing)</p> <p>Share of COBP envelope: 42%</p>	<p>"signaling and systems" have been added as key areas of assistance, and "rolling stock" has been removed</p>
2. Water and Other Urban Infrastructure and Services			
<p>Improved supply of drinking water, sanitation, and waste management services</p> <p>Healthier population</p> <p>Improved job creation and income-earning opportunities</p>	<p>Drinking water system, sanitation systems, industrial wastewater, wastewater management, tariff policy and sector development, urban governance, urban planning, urban environmental policies, smart cities, and PPPs</p>	<p>Amount: \$3.014 billion (regular OCR)</p> <p>Share of COBP envelope: 24%</p>	<p>No change</p>
3. Energy			
<p>Greater availability and reliability of energy supply</p> <p>Higher efficiency and carbon mitigation through power generation from renewable sources</p> <p>Improved job creation and income-earning opportunities</p>	<p>Strengthening and loss reduction of electric power transmission and distribution network, capacity development of state utilities, renewable energy, energy efficiency, cross-border power transmission lines and gas pipelines, and an enabling environment for private sector participation</p>	<p>Amount: \$1.433 billion (regular OCR) and \$46 million (cofinancing)</p> <p>Share of COBP envelope: 12%</p>	<p>No change</p>
4. Agriculture, Natural Resources, and Rural Development			
<p>Improved agriculture productivity and rural incomes</p>	<p>Farm production enhancement, agribusiness, crop and non-crop value chain infrastructure and investments, surface and groundwater irrigation,</p>	<p>Amount: \$1.141 billion (regular OCR)</p>	<p>No change</p>

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2020–2022	Changes from Last COBP
Improved water management efficiency	irrigation systems management, flood protection, flood risk management, ecosystem management, marine ecosystem and coastal resources, PPPs, improved basin water management, and improved water use efficiency in irrigation	Share of COBP envelope: 9%	
5. Public-Sector Management			
Efficient use of public finances	Public expenditure and fiscal management, revenue mobilization, reforms, and restructuring	Amount: \$806 million (OCR) Share of COBP envelope: 7%	No change
6. Education			
Improved employability and productivity of growing workforce	Enhanced technical and vocational education and training; support to education; PPPs; industry engagement; and strengthening of assessment, certification, and monitoring of results	Amount: \$600 million (regular OCR) Share of COBP envelope: 4%	“support to education” has been added as a key area of assistance and “introduction of vocational education in high schools and colleges” has been dropped
7. Health			
Healthier population	Health system development to improve urban health care	Amount: \$200 million (regular OCR) Share of COBP envelope: 2%	No change

ADB = Asian Development Bank, COBP = country operations business plan, OCR = ordinary capital resources, PPP = public–private partnership.

Source: Asian Development Bank estimates.

LIST OF LINKED DOCUMENTS

<http://www.adb.org/Documents/COBP/?id=IND-2020>

1. Portfolio at a Glance: India

INDICATIVE ASSISTANCE PIPELINE

Table A3.1: Indicative Lending Products, 2020–2022

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB		Gov't	Co-finance		
							Regular OCR	COL			ADF Grants	Total
2020 Firm												
1. Himachal Pradesh Horticulture Development Project (PRF)	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		10.0	10.0	0.0	0.0	10.0	0.0	0.0
2. Scaling Up Demand Side Energy Efficiency Sector Project	ENE	GI	OP3, OP6	SAEN	2020	592.0	250.0	0.0	0.0	250.0	296.0	46.0 (CTF)
3. Uttar Pradesh Power Distribution Network Rehabilitation Project	ENE	GI	OP1, OP2, OP3, OP5, OP6	SAEN	2017	670.0	430.0	0.0	0.0	430.0	240.0	0.0
4. West Bengal Public Finance Management Reforms Program (PBL)	PSM	GI	OP6	SAPF	2020	79.3	55.5	0.0	0.0	55.5	23.8	0.0
5. Bangaluru Metro Rail Project	TRA	GI	OP2, OP3, OP4, OP6	SATC	2019	714.3	500.0	0.0	0.0	500.0	214.3	0.0
6. Chennai Metro Rail Project – Line 3	TRA	GI	OP2, OP3, OP4, OP6	SATC	2020	714.3	500.0	0.0	0.0	500.0	214.3	0.0
7. Delhi–Meerut Regional Rapid Transit System Investment Program (tranche 1)	TRA	GI	OP2, OP3, OP4, OP6	SATC	2018	1,700.0	350.0	0.0	0.0	350.0	350.0	1,000.0 (K-EXIM, AIIB)
8. Maharashtra State Road Improvement Project	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC	2019	280.0	195.0	0.0	0.0	195.0	85.0	0.0
9. State Road Safety Incentive Program (RBL)	TRA	GI	OP2, OP4, OP6	SATC	2020	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
10. South Asia Subregional Economic Cooperation Road Connectivity	TRA	GI	OP1, OP3, OP5, OP7	SATC		100.0	50.0	0.0	0.0	50.0	50.0	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	Regular OCR	ADB		Gov't	Co-finance	
								COL	ADF Grants			Total
Investment Program (tranche 3)												
11. Sikkim Major District Roads Project (PRF)	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC		10.0	10.0	0.0	0.0	10.0	0.0	0.0
12. Jharkhand Urban Resilience and Livability Improvement Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	250.0	175.0	0.0	0.0	175.0	75.0	0.0
13. Madhya Pradesh Urban Services Improvement Investment Project, Phase 2	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2017	430.0	300.0	0.0	0.0	300.0	130.0	0.0
14. Rajasthan Secondary Town Development Investment Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2017	714.3	500.0	0.0	0.0	500.0	214.3	0.0
15. Visakhapatnam–Chennai Industrial Corridor Development Program (tranche 2)	WUS, TRA	GI	OP2, OP3, OP4, OP6, OP7	SAUW	2016	364.3	255.0	0.0	0.0	255.0	109.3	0.0
Total (2020 firm)						7,628.5	4,080.5	0.0	0.0	4,080.5	2,502.0	1,046.0
2020 Standby												
1. Ara Canal Water Productivity Improvement Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2018	492.0	341.0	0.0	0.0	341.0	151.0	0.0
2. Maharashtra Agribusiness Network Project	ANR	GI	OP1, OP2, OP5, OP6	SAER	2019	142.9	100.0	0.0	0.0	100.0	42.9	0.0
3. Supporting School Education Program (RBL)	EDU	GI	OP1, OP2, OP6	SAHS	2019	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
4. Meghalaya Power Distribution Sector Improvement Project	ENE	GI	OP1, OP2, OP3, OP4, OP5, OP6	SAEN	2019	165.7	132.5	0.0	0.0	132.5	33.2	0.0
5. Tripura Power Generation Upgradation and	ENE	GI	OP1, OP2, OP3, OP5, OP6	SAEN	2019	275.0	220.0	0.0	0.0	220.0	55.0	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
6. Uttarakhand Distribution Reliability Improvement Project	ENE	GI	OP1, OP2, OP3, OP4, OP5	SAEN	2019	250.0	200.0	0.0	0.0	200.0	50.0	0.0
7. Comprehensive Transmission Strengthening and Distribution Improvement Project	HLT	GI	OP1, OP2, OP4, OP6	SAHS	2015	400.0	200.0	0.0	0.0	200.0	200.0	0.0
8. Primary Health Care Program in Urban Areas (RBL)	PSM	GI	OP1, OP4, OP5, OP6	SAPF	2020	500.0	250.0	0.0	0.0	250.0	250.0	0.0
9. Micro, Small, and Medium-Sized Enterprises Development Project (RBL)	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC	2019	470.0	329.0	0.0	0.0	329.0	141.0	0.0
10. Bihar State Highways III Project, Phase 2	TRA	GI	OP1, OP3, OP4, OP5, OP7	SATC	2019	691.5	484.0	0.0	0.0	484.0	207.5	0.0
11. Tamil Nadu Industrial Connectivity Project	WUS	GI	OP2, OP3, OP5, OP6	SAUW	2019	214.3	150.0	0.0	0.0	150.0	64.3	0.0
12. Andhra Pradesh Rural Water Supply Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	214.3	150.0	0.0	0.0	150.0	64.3	0.0
13. Inclusive, Resilient, and Sustainable Housing for Urban Poor in Tamil Nadu	WUS	GI	OP1, OP3, OP4, OP7	SAUW	2019	76.9	61.5	0.0	0.0	61.5	15.4	0.0
13. Smart City Projects in Agartala City						4,892.6	3,118.0	0.0	0.0	3,118.0	1,774.6	0.0
Total (2020 standby)												
2021 Firm												
1. Ara Canal Water Productivity Improvement Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2018	492.0	341.0	0.0	0.0	341.0	151.0	0.0
2. Maharashtra Agribusiness Network Project	ANR	GI	OP1, OP2, OP5, OP6	SAER	2019	142.9	100.0	0.0	0.0	100.0	42.9	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
3. Maharashtra Sustainable Coastal Protection and Management Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	71.5	50.0	0.0	0.0	50.0	21.5	0.0
4. Kerala Skills Development Project, Phase 2 (RBL)	EDU	GI	OP1, OP2, OP6	SAHS	2019	142.9	100.0	0.0	0.0	100.0	42.9	0.0
5. Supporting School Education Program (RBL)	EDU	GI	OP1, OP2, OP6	SAHS	2019	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
6. Meghalaya Power Distribution Sector Improvement Project	ENE	GI	OP1, OP2, OP3, OP4, OP5, OP6	SAEN	2019	165.7	132.5	0.0	0.0	132.5	33.2	0.0
7. Tripura Power Generation Upgradation and Distribution Reliability Improvement Project	ENE	GI	OP1, OP2, OP3, OP5, OP6	SAEN	2019	275.0	220.0	0.0	0.0	220.0	55.0	0.0
8. Uttarakhand Transmission Strengthening and Distribution Improvement Project	ENE	GI	OP1, OP2, OP3, OP4, OP5	SAEN	2019	250.0	200.0	0.0	0.0	200.0	50.0	0.0
9. Comprehensive Primary Health Care Program in Urban Areas (RBL)	HLT	GI	OP1, OP2, OP4, OP6	SAHS	2015	400.0	200.0	0.0	0.0	200.0	200.0	0.0
10. Micro, Small, and Medium-Sized Enterprises Development Project (RBL)	PSM	GI	OP1, OP4, OP5, OP6	SAPF	2020	500.0	250.0	0.0	0.0	250.0	250.0	0.0
11. Bihar State Highways III Project, Phase 2	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC	2019	470.0	329.0	0.0	0.0	329.0	141.0	0.0
12. Chennai Metro Rail Project, Phase 2, Corridor 4	TRA	GI	OP2, OP3, OP4	SATC	2019	667.2	467.0	0.0	0.0	467.0	200.2	0.0
13. Indore Metro Rail Project, Phase 1	TRA	GI	OP2, OP3, OP4	SATC	2019	607.2	250.0	0.0	0.0	250.0	107.2	250.0 (NDB)

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
14. Public–Private Partnership in Madhya Pradesh Road Sector Project (additional financing)	TRA	GI	OP1, OP2, OP3, OP5	SATC	2019	250.0	175.0	0.0	0.0	175.0	75.0	0.0
15. Tamil Nadu Industrial Connectivity Project	TRA	GI	OP1, OP3, OP4, OP5, OP7	SATC	2019	691.5	484.0	0.0	0.0	484.0	207.5	0.0
16. Andhra Pradesh Rural Water Supply Project	WUS	GI	OP2, OP3, OP5, OP6	SAUW	2019	214.3	150.0	0.0	0.0	150.0	64.3	0.0
17. Inclusive, Resilient, and Sustainable Housing for Urban Poor in Tamil Nadu	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	214.3	150.0	0.0	0.0	150.0	64.3	0.0
18. Smart City Projects in Agartala City	WUS	GI	OP1, OP3, OP4, OP7	SAUW	2021	76.9	61.5	0.0	0.0	61.5	15.4	0.0
Total (2021 firm)						6,631.4	4,160.0	0.0	0.0	4,160.0	2,221.4	250.0
2021 Standby												
1. Cauvery Delta Sustainable Irrigation and Flood Management Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	285.8	200.0	0.0	0.0	200.0	85.8	0.0
2. Scaling Up Demand Side Energy Efficiency Sector Project (additional financing)	ENE	GI	OP3, OP6	SAEN		400.0	200.0	0.0	0.0	200.0	200.0	0.0
3. Industrial Corridor Development Project (PBL)	PSM	GI	OP1, OP3, OP4, OP5, OP6	SATC	2019	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
4. Second Rural Connectivity Investment Program, (tranche 3)	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC		280.0	140.0	0.0	0.0	140.0	140.0	0.0
5. Delhi Water Supply Improvement Investment Program (tranche 1)	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2013	225.8	158.0	0.0	0.0	158.0	67.8	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB						Co-finance
						Total	Regular OCR	COL	ADF Grants	Total	Gov't	
6. Integrated Stormwater Drain Network in the Kosasthalaiyar Basin in Greater Chennai Corporation	WUS	GI	OP1, OP3, OP4, OP6	SAUW	2019	358.9	251.2	0.0	0.0	251.2	107.7	0.0
7. Kerala Urban Water Services Improvement Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	215.0	150.0	0.0	0.0	150.0	65.0	0.0
8. Kolkata Urban Resilience Improvement Sector Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	714.3	500.0	0.0	0.0	500.0	214.3	0.0
9. Remodeling/ Renovation of Old Rural Water Supply Schemes of Himachal Pradesh	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	120.4	96.3	0.0	0.0	96.3	24.1	0.0
10. State-Level Urban Development Investment Project	WUS	GI	OP1, OP2, OP3, OP5, OP6	SAUW		187.5	150.0	0.0	0.0	150.0	37.5	0.0
Total (2021 standby)						3,787.7	2,345.5	0.0	0.0	2,345.5	1,442.2	0.0
2022 Firm												
1. Cauvery Delta Sustainable Irrigation and Flood Management Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	285.8	200.0	0.0	0.0	200.0	85.8	0.0
2. Himachal Pradesh Subtropical Horticulture, Irrigation, and Value Addition Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	112.5	90.0	0.0	0.0	90.0	22.5	0.0
3. Karnataka Integrated and Sustainable Water Resources Management Investment Program, Phase 2	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	285.8	200.0	0.0	0.0	200.0	85.8	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB						Co-finance
						Total	Regular OCR	COL	ADF Grants	Total	Gov't	
4. Maharashtra Rural Connectivity Improvement Project (additional financing)	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	214.3	150.0	0.0	0.0	150.0	64.3	0.0
5. Scaling Up Demand Side Energy Efficiency Sector Project (additional financing)	ENE	GI	OP3, OP6	SAEN		400.0	200.0	0.0	0.0	200.0	200.0	0.0
6. Industrial Corridor Development Project (PBL)	PSM	GI	OP1, OP3, OP4, OP5, OP6	SATC	2019	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
7. Assam Road Network Improvement Project	TRA	GI	OP1, OP2, OP3, OP4, OP5, OP6	SATC	2019	375.0	300.0	0.0	0.0	300.0	75.0	0.0
8. Delhi–Meerut Regional Rapid Transit System Investment Program (tranche 2)	TRA	GI	OP2, OP3, OP4, OP6	SATC	2018	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0
9. Multimodal Transport Project in Maharashtra	TRA	GI	OP1, OP2, OP3 OP4, OP6	SATC	2020	554.3	388.0	0.0	0.0	388.0	166.3	0.0
10. South Asia Subregional Economic Cooperation Road Transport Corridor Project- Phase 2	TRA	GI	OP1, OP2, OP3, OP5, OP6, OP7	SATC	2019	250.0	200.0	0.0	0.0	200.0	50.0	0.0
11. Integrated Stormwater Drain Network in the Kosasthalaiyar Basin in Greater Chennai Corporation	WUS	GI	OP1, OP3, OP4, OP6	SAUW	2019	358.9	251.2	0.0	0.0	251.2	107.7	0.0
12. Kerala Urban Water Services Improvement Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	215.0	150.0	0.0	0.0	150.0	65.0	0.0
13. National Drinking Water Supply	WUS	GI	OP1, OP2, OP5, OP6	SAUW	2020	1,000.0	500.0	0.0	0.0	500.0	500.0	0.0

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	Regular OCR	ADB		Gov't	Co-finance	
								COL	ADF Grants			Total
Improvement Program (RBL/PBL)												
14. Remodeling/ Renovation of Old Rural Water Supply Schemes of Himachal Pradesh	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	120.4	96.3	0.0	0.0	96.3	24.1	0.0
15. Uttarakhand Urban Development Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2022	187.5	150.0	0.0	0.0	150.0	37.5	0.0
16. West Bengal Drinking Water Improvement Sector Project, Phase 2	WUS	GI	OP1, OP2, OP3, OP5, OP6	SAUW	2019	428.6	300.0	0.0	0.0	300.0	128.6	0.0
Total (2022 firm)						6,788.1	4,175.5	0.0	0.0	4,175.5	2,612.6	0.0
2022 Standby												
1. Solar Rooftop Investment Program (tranche 2)	ENE	GI	OP3, OP6	SAEN		160.0	80.0	0.0	0.0	80.0	80.0	0.0
2. Micro, Small, and Medium-Sized Enterprises Development Project, Phase 2 (RBL)	PSM	GI	OP1, OP4, OP5, OP6	SAPF	2020	500.0	250.0	0.0	0.0	250.0	250.0	0.0
3. Sikkim Major District Roads Project	TRA	GI	OP1, OP2, OP3, OP5, OP6	SATC	2021	93.8	75.0	0.0	0.0	75.0	18.8	0.0
4. Himachal Pradesh Tourism Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2019	150.0	120.0	0.0	0.0	120.0	30.0	0.0
5. Jharkhand Urban Resilience and Livability Improvement Project, Phase 2	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW		214.3	150.0	0.0	0.0	150.0	64.3	0.0
6. Punjab Urban Infrastructure Investment Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2022	140.0	98.0	0.0	0.0	98.0	42.0	0.0
Total (2022 standby)						1,258.1	773.0	0.0	0.0	773.0	485.1	0.0

ADB = Asian Development Bank; ADF = Asian Development Fund; AIIB = Asian Infrastructure Investment Bank; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; CTF = clean technology fund; EDU = education; ENE = energy; FIN = finance; GI = general intervention; Gov't = government; HLT = health; K-EXIM = Export–Import Bank of Korea; NDB = New Development Bank; OCR = ordinary capital resources; PBL = policy-based lending; PRF = project readiness financing facility; PSM = public-sector management; RBL = results-based lending; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Note: Given the provisional nature of the indicative lending program, the composition of lending instruments may change in the actual loan delivery.

^a OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; OP7 = fostering regional cooperation and integration.

Source: Asian Development Bank estimates.

Table A3.2: Indicative Multitranche Financing Facilities, 2020–2022

Project/Program Name	Sector	Poverty Targeting	Operational Priority ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB		Gov't	Co-finance		
							Regular OCR	COL			ADF Grants	Total
2020 Firm												
1. Delhi–Meerut Regional Rapid Transit System Investment Program	TRA	GI	OP2, OP3, OP4, OP6	SATC		3,800.0	1,400.0	0.0	0.0	1,400.0	1,400.0	1,000.0 (K-EXIM, AIIB)
Total (2020 firm)						3,800.0	1,400.0	0.0	0.0	1,400.0	1,400.0	1,000.0
2021 Standby												
1. Delhi Water Supply Improvement Investment Program	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW		414.3	290.0	0.0	0.0	290.0	124.3	0.0
Total (2021 standby)						414.3	290.0	0.0	0.0	290.0	124.3	0.0

ADB = Asian Development Bank, ADF = Asian Development Fund, AIIB = Asian Infrastructure Investment Bank, COL = concessional OCR lending, GI = general intervention, Gov't = government, K-EXIM = Export–Import Bank of Korea, OCR = ordinary capital resources, PRF = project readiness financing facility, SATC = South Asia Transport and Communications Division, SAUW = South Asia Urban Development and Water Division, TRA = transport, TRTA = transaction technical assistance, WUS = water and other urban infrastructure and services.

^a OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP6 = strengthening governance and institutional capacity.

Source: Asian Development Bank estimates.

Table A3.3: Indicative Nonlending Products and Services, 2020–2022

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2020								
1. AgTech Application in Agriculture in Andhra Pradesh	ANR	SAER	KSTA	TASF	0.0	JFPR	2,500.0	2,500.0
2. Support for Agriculture Development	ANR	SAER	KSTA		0.0	TBD	1,000.0	1,000.0
3. Skills Development Project in Kerala	EDU	SAHS	TRTA	TASF	1,000.0		0.0	1,000.0
4. Demand Side Energy Efficiency Investment Project II	ENE	SAEN	TRTA	TASF	225.0		0.0	225.0
5. Promoting the Efficient Use of Electricity in Rural Areas and Institutional Capacity Building of Uttar Pradesh Power Corporation Ltd.	ENE	SAEN	TRTA		0.0	JFPR	1,500.0	1,500.0
6. Scaling Up Demand Side Energy Efficiency Sector Project	ENE	SAEN	TRTA		0.0	CTF	2,000.0	2,000.0
7. Strengthening the Capacity to Design and Implement Energy Projects (TA Facility) (supplementary)	ENE	SAEN	TRTA	TASF	1,000.0		0.0	1,000.0
8. Strengthening the Capacity for Comprehensive Primary Health Care in Urban Areas	HLT	SAHS	TRTA	TASF	2,000.0		0.0	2,000.0
9. Capacity Building of Micro, Small, and Medium-Sized Enterprises Development Project	PSM	SAPF	TRTA	TASF	2,000.0		0.0	2,000.0
10. Supporting Logistics Sector Development (supplementary TA 9555)	PSM, TRA	INRM	KSTA	TASF	1,000.0		0.0	1,000.0
11. Supporting Public Resource Management Program (TA Facility)	PSM	SAPF	TRTA	TASF	1,000.0		0.0	1,000.0
12. Capacity Development for Industrial Corridor Development Project (National Industrial Corridor Development and Implementation Trust)	PSM	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
13. Operational Capacity Development for Regional Rail Systems	TRA	SATC	TRTA	TASF	500.0		0.0	500.0
14. Preparing the East Coast Economic Corridor Port Project	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
15. Preparing the Maharashtra Multimodal Project	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
16. Supporting the Bangalore Metro Rail Project	TRA	SATC	TRTA	TASF	2,000.0		0.0	2,000.0

Table A3.3: Indicative Nonlending Products and Services, 2020–2022

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
17. Supporting the State Road Safety Incentive Program	TRA	SATC	TRTA	TASF	2,000.0		0.0	2,000.0
18. Strategic Interventions for Economic Transformation—Strengthening Knowledge for Enhancing Development Outcomes (supplementary TA 9665)	TRA, ANR, EDU, ENE, WUS	INRM	KSTA	TASF	1,500.0		0.0	1,500.0
Total (2020)					17,225.0		7,000.0	24,225.0
2021								
1. Strengthening the Capacity to Design and Implement Water and Rural Infrastructure Facility (supplementary)	ANR	SAER	TRTA	TASF	2,000.0		0.0	2,000.0
2. Supporting the Capacity for School Education Program	EDU	SAHS	TRTA	TASF	2,000.0	JFPR	2,000.0	4,000.0
3. Capacity Development of Metro Projects	TRA	SATC	TRTA	TASF	2,000.0		0.0	2,000.0
4. Preparing Transport Sector Projects	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
5. Strengthening the Capacity to Design and Implement Transport Infrastructure Projects (supplementary)	TRA	SATC	TRTA	TASF	2,000.0		0.0	2,000.0
6. Supporting the Sikkim Major District Roads Project	TRA	SATC	TRTA	TASF	500.0		0.0	500.0
7. Capacity Development for the Agartala Smart City Development Project	WUS	SAUW	TRTA	TASF	1,000.0		0.0	1,000.0
8. National Drinking Water Supply Improvement Program	WUS	SAUW	TRTA	TASF	1,000.0		0.0	1,000.0
Total (2021)					11,500.0		2,000.0	13,500.0
2022								
1. Preparing the Jharkhand Power Project	ENE	SAEN	TRTA	TASF	1,000.0		0.0	1,000.0
2. Capacity Development of the Maharashtra Multimodal Project	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
3. Supporting the State Road Safety Incentive Program (supplementary)	TRA	SATC	TRTA		0.0	TBD	3,000.0	3,000.0
4. Capacity Building for Project Design, Implementation, and Evaluation, Phase 2	TRA, ANR, EDU, ENE, FIN, WUS,	INRM	TRTA	TASF	2,000.0		0.0	2,000.0
5. Strategic Interventions for Economic Transformation—Strengthening Knowledge for Enhancing Development Outcomes, Phase 2	TRA, ANR, EDU, ENE, WUS	INRM	KSTA	TASF	2,000.0		0.0	2,000.0

Table A3.3: Indicative Nonlending Products and Services, 2020–2022

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
6. Strengthening the Capacity to Design and Implement Urban Infrastructure Projects (supplementary)	WUS	SAUW	TRTA	TASF	3,000.0		0.0	3,000.0
7. Supporting the National Rural Water Supply Improvement Program	WUS	SAUW	TRTA	TASF	2,000.0		0.0	2,000.0
8. Supporting the Uttarakhand Urban Sector Development Project	WUS	SAUW	TRTA	TASF	1,500.0		0.0	1,500.0
Total (2022)					12,500.0		3,000.0	15,500.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; CTF = clean technology fund; EDU = education; ENE = energy; FIN = finance; HLT = health; INRM = India Resident Mission; JFPR = Japan Fund for Poverty Reduction; KSTA = knowledge and support technical assistance; PSM = public-sector management; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TASF = Technical Assistance Special Fund; TBD = to be determined; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Source: Asian Development Bank estimates.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A4.1: Lending Products, 2019

Project/Program Name	Sector	Poverty Targeting	Priority Area ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB		Gov't	Co-finance		
							Regular OCR	COL			ADF Grants	Total
2019 Firm												
1. Karnataka Integrated and Sustainable Water Resources Management Investment Program (tranche 2)	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		130.0	91.0	0.0	0.0	91.0	39.0	0.0
2. Maharashtra Rural Connectivity Improvement Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		296.0	200.0	0.0	0.0	200.0	96.0	0.0
3. Assam Power Sector Investment Program (tranche 3)	ENE	GI	OP1, OP2, OP3, OP4, OP6	SAEN		274.0	210.0	0.0	0.0	210.0	64.0	0.0
4. Bengaluru Smart Energy-Efficient Power Distribution Project	ENE	GI	OP3, OP4, OP6	SAEN		270.0	100.0	0.0	0.0	100.0	80.0	90.0 (ADB's NSO)
5. Chennai–Kanyakumari Industrial Corridor Power Sector Investment Project	ENE	GI	OP3, OP4, OP6, OP7	SAEN	2018	653.9	451.4	0.0	0.0	451.4	202.5	0.0
6. Maharashtra Rural High Voltage Distribution System Program (results-based lending)	ENE	GI	OP1, OP3, OP5, OP6	SAEN	2020	700.0	346.0	0.0	0.0	346.0	354.0	0.0
7. Chhattisgarh Roads Connectivity Project	TRA	GI	OP3, OP5	SATC		521.7	350.0	0.0	0.0	350.0	171.7	0.0
8. Mumbai Metro Rail Systems Project	TRA	GI	OP1, OP2, OP3, OP4, OP6	SATC		1,675.0	926.0	0.0	0.0	926.0	489.0	260.0 (NDB)
9. Public–Private Partnership in Madhya Pradesh Road Sector Project	TRA	GI	OP2, OP3, OP5, OP6	SATC	2019	904.0	490.0	0.0	0.0	490.0	128.0	286.0 (private)

Project/Program Name	Sector	Poverty Targeting	Priority Area ^a	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB		Gov't	Co-finance		
							Regular OCR	COL			ADF Grants	Total
10. Rajasthan State Highway Investment Program (tranche 2)	TRA	GI	OP1, OP3, OP4, OP5, OP6	SATC		379.2	190.0	0.0	0.0	190.0	189.2	0.0
11. Assam Urban Infrastructure Development Investment Program (tranche 2)	WUS	GI	OP2, OP3, OP4, OP6	SAUW		37.2	26.0	0.0	0.0	26.0	11.2	0.0
12. Tamil Nadu Urban Flagship Investment Program (tranche 2)	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW		593.0	206.0	0.0	0.0	206.0	387.0	0.0
13. Project Readiness Financing Facility for the North East (PRF)	WUS, TRA, ENE	GI	OP1, OP2, OP4, OP5, OP6, OP7	INRM		10.0	10.0	0.0	0.0	10.0	0.0	0.0
Total (2019 firm)						6,444.0	3,596.4	0.0	0.0	3,596.4	2,211.6	636.0
2019 Standby												
1. Clean Energy Finance Investment Program (tranche 2)	ENE	GI	OP1, OP4, OP3, OP6	INRM		300.0	150.0	0.0	0.0	150.0	150.0	0.0
2. Scaling Up Demand Side Energy Efficiency Sector Project	ENE	GI	OP3, OP6	SAEN	2020	592.0	250.0	0.0	0.0	250.0	296.0	46.0 (CTF)
3. Uttar Pradesh Power Distribution Network Rehabilitation Project	ENE	GI	OP1, OP2, OP3, OP5, OP6	SAEN	2017	670.0	430.0	0.0	0.0	430.0	240.0	0.0
4. South Asia Subregional Economic Cooperation Road Connectivity Project (tranche 3)	TRA	GI	OP1, OP3, OP5, OP7	SATC		100.0	50.0	0.0	0.0	50.0	50.0	0.0
5. Visakhapatnam–Chennai Industrial Corridor Development Program (tranche 2)	WUS, TRA	GI	OP2, OP3, OP4, OP6, OP7	SAUW		364.3	255.0	0.0	0.0	255.0	109.3	0.0
Total (2019 standby)						2,026.3	1,135.0	0.0	0.0	1,135.0	845.3	46.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; CTF = clean technology fund; EDU = education; ENE = energy; GI = general intervention; Gov't = government; INRM = India Resident Mission; NDB = New Development Bank; NSO = nonsovereign operations; OCR = ordinary capital resources; PRF = project readiness financing facility; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services. Note: Given the provisional nature of the indicative lending program, the composition of lending instruments may change in the actual loan delivery.

^a OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; OP7 = fostering regional cooperation and integration.

Source: Asian Development Bank estimates.

Table A4.2: Nonlending Products and Services, 2019

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
1. Institutional Strengthening of the Maharashtra Rural Road Sector for Sustainable Development	ANR	SAER	TRTA	TASF	1,000.0		0.0	1,000.0
2. Strengthening the Capacity to Design and Implement Water and Rural Infrastructure Facility (TA Facility)	ANR	SAER	TRTA	TASF	2,000.0		0.0	2,000.0
3. Odisha Skills Development Project	EDU	SAHS	TRTA		0.0	JFPR	2,000.0	2,000.0
4. Supporting Education and Skills Development Capacity	EDU	SAHS	TRTA	TASF	1,000.0		0.0	1,000.0
5. Bengaluru Smart Energy-Efficient Power Distribution Project	ENE	SAEN	TRTA	TASF	225.0		0.0	225.0
6. Capacity Building on Financial Management Assessment and Gender of the Tamil Nadu Power Transmission Company	ENE	SAEN	TRTA	TASF	650.0		0.0	650.0
7. Capacity Development of the Maharashtra Rural High Voltage Distribution System Project	ENE	SAEN	TRTA	TASF	1,000.0		0.0	1,000.0
8. Enhancing the Capacity to Design and Implement Energy Sector Projects (TA Facility)	ENE	SAEN	TRTA	TASF	1,000.0		0.0	1,000.0
9. Enhancing the Capacity of State Utilities in Preparing Energy Sector Projects (supplementary TA 9455)	ENE	SAEN	TRTA	TASF	100.0		0.0	100.0
10. Strengthening the Capacity of the National Urban Health Mission (supplementary TA 8899)	HLT	SAHS	TRTA	TASF	300.0		0.0	300.0
11. Supporting the National Health Authority	HLT	SAPF	KSTA	TASF	225.0		0.0	225.0
12. Information Technology and Capacity-Building Support for Project Development and Management at the Department of Economic Affairs	ICT	INRM	KSTA	TASF	225.0		0.0	225.0
13. Supporting Civil Service Training Under the Department of Personnel and Training	PSM	INRM	KSTA	TASF	300.0		0.0	300.0
14. Strengthening the Capacity to Design and Implement Transport Infrastructure Projects	TRA	SATC	TRTA	TASF	2,500.0		0.0	2,500.0
15. Advancing Gender Budgeting in Select States	TRA, ANR, EDU, ENE, FIN, WUS,	INRM	KSTA		0.0	JFPR	2,000.0	2,000.0

Table A4.2: Nonlending Products and Services, 2019

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
16. Capacity Building for Project Design, Implementation and Evaluation (supplementary TA 9635)	TRA, ANR, EDU, ENE, FIN, WUS,	INRM	TRTA	TASF	1,000.0		0.0	1,000.0
17. Knowledge and Institutional Strengthening for Infrastructure Planning and Sustainable Development for Subregional Integration	TRA, ENE, WUS	INRM	KSTA	TASF	2,000.0		0.0	2,000.0
18. Strengthening the Capacity to Design and Implement Urban Infrastructure Projects (TA Facility)	WUS	SAUW	TRTA	TASF	2,000.0		0.0	2,000.0
19. Strengthening Smart Water Management and Urban Climate Change Resilience in Tami Nadu (subproject 1) (supplementary TA 9129)	WUS	SAUW	TRTA		0.0	UCCRTF	50.0	50.0
20. Strengthening the Capacity of Kolkata Municipal Corporation to Resilient Urban Services	WUS	SAUW	TRTA		0.0	UCCRTF	2,000.0	2,000.0
Total (2019)					15,525.0		6,050.0	21,575.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; FIN = finance; HLT = health; ICT = information and communication technology; INRM = India Resident Mission; JFPR = Japan Fund for Poverty Reduction; KSTA = knowledge and support technical assistance; PSM = public sector management; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance; UCCRTF = Urban Climate Change Resilience Trust Fund. WUS = water and other urban infrastructure and services.

Source: Asian Development Bank estimates.

INDICATIVE KNOWLEDGE PRODUCTS AND EVENTS

Table A5.1: Knowledge Products and Events for 2020

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Developing a Technology-Enabled and Risk Management-Based System for Enforcement of Rules for Road Freight in India	Transport	Technical study	SARD	TA 9555
Developing Chittagong as a Transshipment Hub for Northeast India	Transport	Policy brief	SARD	TA 9665
Enhancing Manufacturing Competitiveness in Rajasthan	Multisector	Working paper	SARD	TA 9665
Learning by Doing: Compilation of Experiences of Executing Agencies in India	Multisector	Technical study	SARD	TA 9635
Report on North East Corridor Study	Multisector	Technical study	SARD	TA 9665
Rural Roads to Prosperity: ADB's Assistance to Pradhan Mantri Gram Sadak Yojana ^a	Transport	Technical study	SARD	TA 9665
Strengthening Micro, Small, and Medium-Sized Enterprises in Uttar Pradesh	Finance	Working paper	SARD	TA 9665
Uttarakhand Emergency Assistance Project: ADB's Role in Disaster Rehabilitation	Multisector	Technical study	SARD	TA 9665
India Capacity Development Resource Centers: 30 workshops	Capacity development	Training or capacity development	SARD	TA 9635
Subregional Conference on Strategies for Smart, Safe, and Equitable Cities in South Asia	Capacity development	Training or capacity development	SARD	TA 8311
Solar Rooftop Investment Program Training Workshops and Film	Capacity development	Training or capacity development	SARD	TA 9187
Total number of publications = 8				
Total number of events = 3				

ADB = Asian Development Bank, SARD = South Asia Department, TA = technical assistance.

^a Pradhan Mantri Gram Sadak Yojana is a nationwide plan that aims to provide all-weather road connectivity in India.

Source: Asian Development Bank estimates.

Table A5.2: Additional Knowledge Products and Events Delivered in 2019

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
A Study on the Development of Logistics Park in India	Transport	Technical study	SARD	TA 7734
Action Plan for the Promotion of Coastal Shipping in India	Transport	Technical study	SARD	TA 9555
Assam: India's Expressway to the Association of Southeast Asian Nations	RCI	Technical study	SARD	TA 7734
Chennai–Kanyakumari Industrial Corridor	Economic corridor	Technical study	SARD	TA 9665
Enhancing Employability: Case Study of Additional Skills Acquisition Program in Kerala	Education	Technical study	SARD	TA 3188
Enhancing India's Participation in Global Value Chains	RCI	Working paper	SARD	TA 9665
Export Growth in India with Lessons for South Asia	RCI	Technical study	SARD	TA 9665
Frequently Asked Questions Manual on Single Window Clearance Web Portal	Multisector	Technical study	SARD	TA 9187
Gender Equality Results Case Study: India – Infrastructure Development Investment Program for Tourism in Himachal Pradesh and Punjab	Gender	Technical study	SARD	TA 8311
Gender Equality Results Case Study: India – Rural Connectivity Investment Program	Gender	Technical study	SARD	TA 8311
Identifying the Potential of Solar Rooftop Across Government-Owned Enterprises	Energy	Technical study	SARD	TA 9187
Inclusive Growth and Infrastructure	Economics	Working paper	SARD	Non-TA
Industrial Parks Rating System	Industry and trade	Technical study	SARD	TA 7734
India's Next Wave of Reforms	Economics	Op-ed	SARD	Non-TA
Maharashtra Agriculture Value Chain Scoping Study	Agriculture	Technical study	SARD	TA 9665
Nowcasting India's Growth	Economics	Working paper	SARD	TA 9665
Productivity and Poverty Reduction	Economics	Policy brief	SARD	TA 9665
Quarterly Forecasting Model for India's Economic Growth: Bayesian Vector Autoregression Approach	Economics	Working paper	SARD	TA 9665
Understanding India's Exports Experiences	Economics, RCI	Working paper	SARD	TA 9665
Uttar Pradesh Infrastructure Framework Plan	Economics	Policy brief	SARD	TA 7734
Total number of publications = 20				
Total number of events = 0				

RCI = regional cooperation and integration, SARD = South Asia Department, TA = technical assistance.

Source: Asian Development Bank estimates.

Table A5.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2020

Item	Nature	Project Number	Sector or Theme	Division
Himachal Pradesh Horticulture Development Project (use of project readiness financing facility)	PLT	53189	ANR	SAER
Scaling Up Demand-Side Energy Efficiency Sector Project (promotion of smart meters, electric vehicles, and efficient water pumps for irrigation and drinking water—some of which are using solar; other technologies like high-efficient LED lights and efficiency buildings)	TCH	52196	ENE	SAEN
Uttar Pradesh Power Distribution Improvement Project (use of smart meters to facilitate real-time energy auditing at distribution transformer level)	TCH	51395	ENE	SAEN
Delhi–Meerut Regional Rapid Transit System Investment Program (tranche 1) (use of high technology (i) in designs using building information modelling, drone surveys, and dedicated global positioning system for surveys; (ii) in rolling stock with design speeds of 165 kilometers per hour and rapid acceleration and deceleration characteristics; and (iii) for train communications, signaling, and platform screen doors for access, control, and safety)	TCH	51073	TRA	SATC
State Road Safety Incentive Program (use of results-based lending)	PLT	...	TRA	SATC
Sikkim Major District Roads (use of project readiness financing facility)	PLT	52159	TRA	SATC
Jharkhand Urban Resilience and Livability Improvement Project (use of innovative technologies in water and sewage treatment, geographic information system-based revenue and asset management, creation of standardized e-governance module for service delivery, development of model wards within urban local bodies demonstrating best urban practices, and comprehensive development approach to provide integrated solution to minimize disturbances to residents)	INO	52028	WUS	SAUW
Rajasthan Secondary Towns Development Investment Project (use of smart water management for all water supply systems, including a central command and control center; and co-treatment for fecal sludge management at all sewage treatment plants in the secondary towns covered under the project)	TCH	42267	WUS	SAUW

Total number of innovation, advanced technology, and pilot initiatives = 8

... = data not available; ANR = agriculture, natural resources, and rural development; ENE = energy; INO = innovation; LED = light-emitting diode; PLT = pilot initiative; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TCH = advanced technology; TRA = transport; WUS = water and other urban infrastructure and services.

Source: Asian Development Bank estimates.