

Project Number: 51360-002

Transaction Technical Assistance Facility (F-TRTA)

April 2018

Turkmenistan: Preparing the Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat–Mary–Ashgabat–Turkmenbashi) Railway Modernization Projects

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 9 April 2018)

Currency unit – Turkmen manat (TMT)

TMT1.00 = \$0.2857 \$1.00 TMT3.5000

ABBREVIATIONS

ADB – Asian Development Bank

CAREC – Central Asia Regional Economic Cooperation

COBP – country operations business plan CPS – country partnership strategy

CWRD - Central and West Asia Department

EA – executing agency

km – kilometer

MRT – Ministry of Railway Transport of Turkmenistan

PAI – project administration instructions

PMU – program management unit

RRP – report and recommendation of the president TA – technical assistance

TASF – technical assistance special fund

NOTE

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

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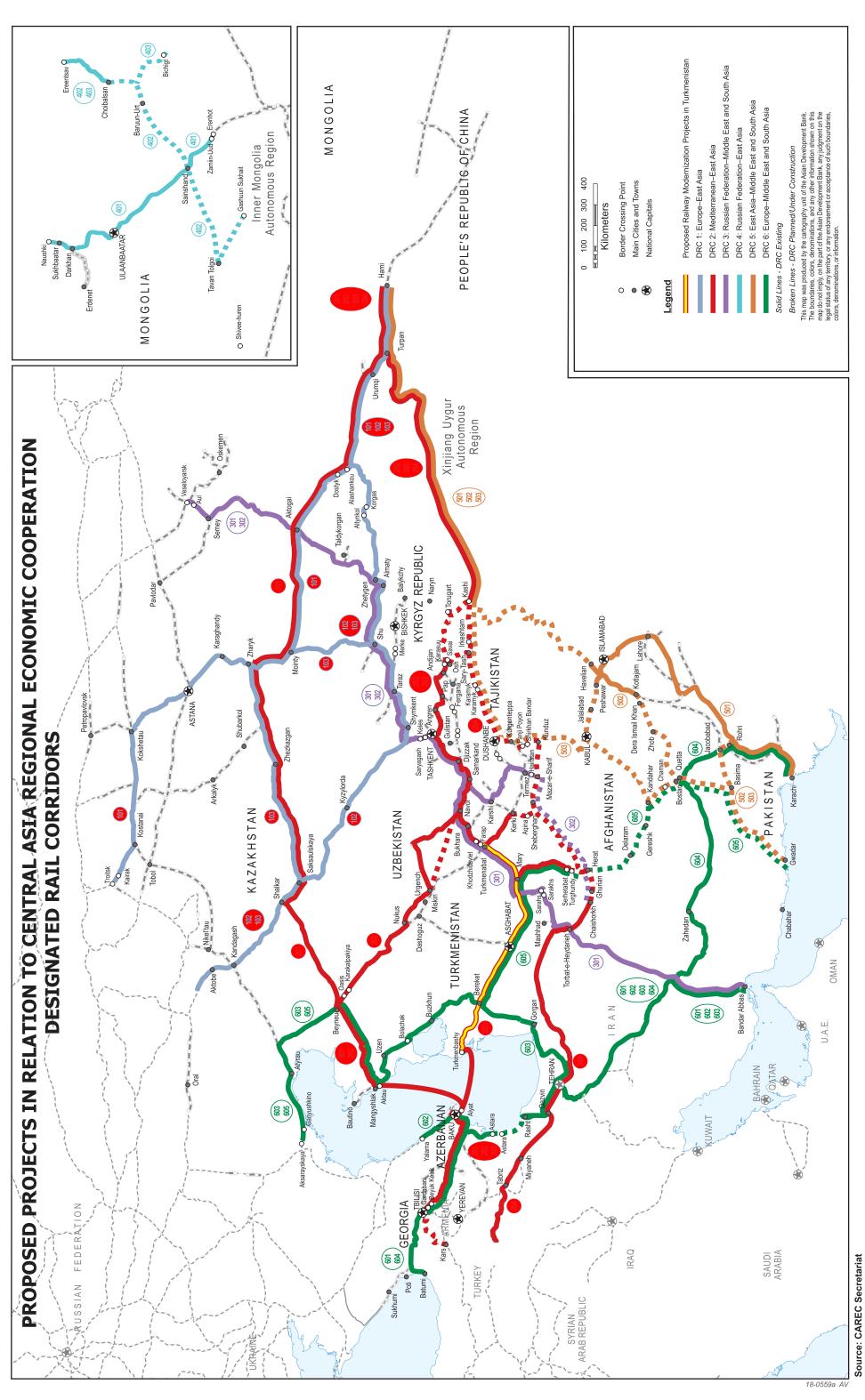
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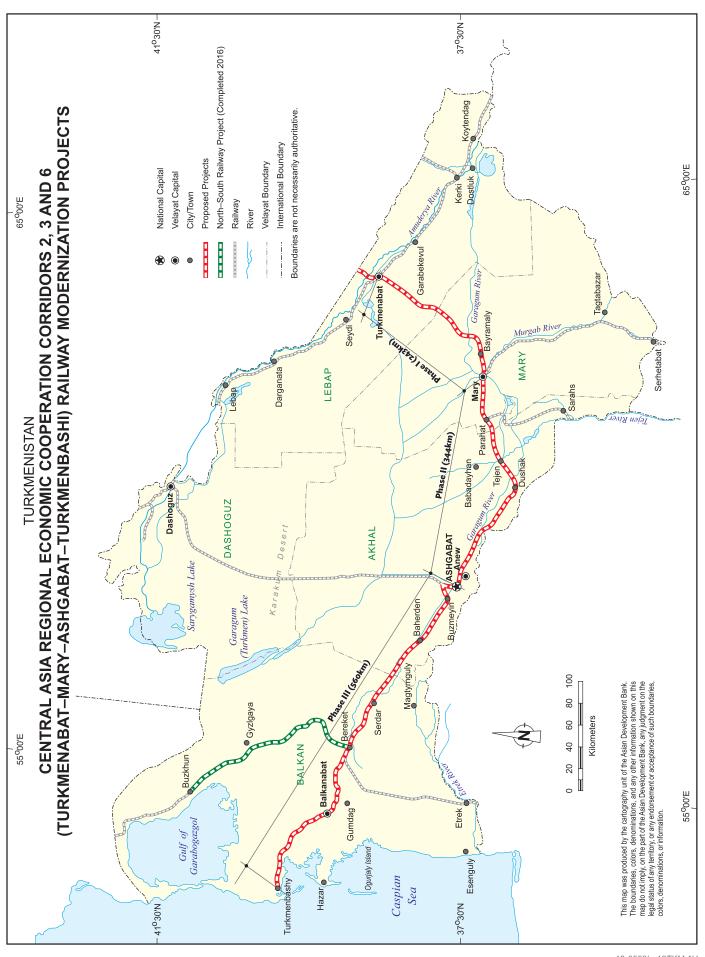
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TRANSACTION TECHNICAL ASSISTANCE AT A GLANCE

		TRANSACTION TECHNICAL AS	SSISTAIN	CL AT A GLA		
1.	Basic Data		1 =		Project Number:	51360-002
	Project Name	Preparing the Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat–Mary–Ashgabat– Turkmenbashi) Railway Modernization Projects	Departme	nt/Division	CWRD/CWTC	
	Nature of Activity	Project Preparation	Executing	Agency	Ministry of Railway Transport of Turkmenistan	
	Modality	Facility				
	Country	Turkmenistan				
2.	Sector	Subsector(s)			ADB Financing	
✓	Transport	Rail transport (non-urban)			Total	0.75 0.75
3.	Strategic Agenda	Subcomponents	Climate C	hange Informati	on	
	Inclusive economic growth (IEG) Environmentally sustainable growth (ESG) Regional integration (RCI)	Pillar 2: Access to economic opportunities, including jobs, made more inclusive Eco-efficiency Global and regional transboundary environmental concerns Pillar 1: Cross-border infrastructure	Climate Change Information Climate Change impact on the Project		Low	
4.	Drivers of Change	Components		quity and Mainst		
	Governance and capacity development (GCD) Knowledge solutions (KNS) Partnerships (PAR)	Institutional development Organizational development Application and use of new knowledge solutions in key operational areas Knowledge sharing activities Pilot-testing innovation and learning Bilateral institutions (not client government) Implementation International finance institutions (IFI) Official cofinancing	Effective gender mainstreaming (EGM)			•
5	Poverty and SDG Targ	netina	I ocation I	mnact		
J.	Geographic Targeting Household Targeting SDG Targeting SDG Goals	No No Yes SDG9, SDG10, SDG13	Nation-wide High		High	
6.	Risk Categorization	Complex				
7.	Safeguard Categoriza	tion Safeguard Policy Statement does	not apply			
8.	Financing					
	Modality and Sources			An	nount (\$ million)	
	ADB					0.75
		l assistance: Technical Assistance Speci	al Fund			0.75
	Cofinancing					0.00
	None					0.00
	Counterpart					80.0
	Government	-				0.08
	Total					0.83





I. THE TECHNICAL ASSISTANCE FACILITY

A. Justification

1. The Government of Turkmenistan (the government) and the Ministry of Railway Transport (MRT) have requested assistance from the Asian Development Bank (ADB) for a program to modernize railways in Turkmenistan, between Turkmenabat, Mary, Ashgabat and Turkmenbashi. The program is expected to be undertaken in three phases (Table 1).

Table 1: Proposed Phases of the Turkmenabat-Mary-Ashgabat-Turkmenbashi Railway

Modernization Program

	Location	Length (km)	Schedule of	Foreign Investment
			Implementation	Required (\$ million)
Phase 1	Turkmenabat-Mary	243	2018-2019	200
Phase 2	Mary-Ashgabat	344	2019-2020	150
Phase 3	Ashgabat-Turkmenbashi	560	2020-2021	200
Total		1,147		550

Source: Ministry of Railway Transport of Turkmenistan

- 2. It is intended for ADB to process Phase 1 as a standalone project, with Phases 2 and 3 financed through additional financing, subject to sound progress on Phase 1. This approach would allow ADB to help build up the EA's implementation capacity during Phase 1, and incentivize MRT to successfully implement Phase 1. The multitranche financing facility modality is considered inappropriate, due to the nascent relationship at operational level between ADB and MRT, challenges associated with the government making requisite policy-level changes ex-ante, and the lack of firmness of financial resources available from ADB and potential cofinanciers to cover all three phases. Aligned with these three proposed phases, this transaction TA facility will provide project preparation support and capacity building to these ensuing projects², comprising;
 - Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat– Mary) Railway Modernization Project;
 - Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat– Mary–Ashgabat) Railway Modernization Project–Additional Financing; and
 - Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat–Mary–Ashgabat–Turkmenbashi) Railway Modernization Project–Additional Financing.
- 3. All ensuing projects are in the railway transport subsector, and relate to a contiguous 1,147km railway line. This is the arterial line for Turkmenistan's railway network, carrying more than 20 million tons of freight per year, 5 million passengers and linking three fourths of Turkmenistan's urban population along its route. The projects collectively contribute to the improvement of Central Asia Regional Economic Cooperation Corridors 2, 3 and 6, serving the east-west connection between East Asia and Europe, as well as the North-South connection between the Middle East and Central Asia and beyond. The improved railway line will also benefit other countries in Central Asia including Uzbekistan, as their access to the deep-sea ports on the Persian Sea, as well as to the Caspian Sea will be improved.

¹ This lending proposal was included in ADB. 2017. *Country Operations Business Plan: Turkmenistan, 2018–2020.*Manila

² For the purpose of this transaction TA facility, each envisaged additional financing to the first ensuing project is considered a project for which preparatory activities are required.

- 4. Despite its importance in supporting regional and domestic connectivity, the line is in a poor state, arising from a backlog of maintenance issues inherited from the Former Soviet Union. The last capital repair was completed in the 1970s. Operational speeds are limited to 36.7km per hour, and major safety issues exist. The poor state of the line poses a major challenge to the expansion of freight and passenger train services on a reliable and safe basis. MRT prioritizes the Turkmenabat-Mary section as Phase 1, due to the higher traffic volume on this section, with Mary serving as a key junction for trains coming to and from Afghanistan, Iran and Uzbekistan.
- 5. The preparation of the first ensuing project and two additional financing require a similar set of due diligence, including safeguards, financial management, and economic assessments. The transaction TA facility is listed in the current Country Operations Business Plan (COBP).³
- 6. Each of the ensuing projects are considered high risk, due to (i) the challenging country context, (ii) history of implementation challenges in the previous North-South Railway Project,⁴ (iii) MRT's limited knowledge of, and capacity to follow processes and procedures relating to international financing institutions, and (iv) multiplicity of contract packages envisaged.
- 7. Key expenditure items envisaged under the ensuing projects include (i) material for replacement rail and sleepers (ii) material for metal span structures such as bridges, (iii) signaling and telecommunications equipment, (iv) specialized machinery and equipment for track maintenance, (v) construction of new sleeper plant, and (vi) project management and construction supervision consultants.

B. Outputs and Activities

8. The major outputs and activities are summarized in Table 2.

Table 2: Summary of Major Outputs and Activities

Table 2. Cultinary of major Outputs and Activities						
Major Outputs	Delivery Dates	Key Activities with Milestones				
High-level screening and common due diligence across the three projects completed	30 June 2018	1.1 Procurement capacity assessment conducted by 30 April 2018				
		1.2 Integrity Due Diligence of the EA completed by 30 April 2018				
		1.3 Sector assessment including on operation and maintenance issues completed by 30 May 2018				
		Safeguard and gender screening and categorization for all three proposed sections completed by 30 May 2018				
		1.5 Financial management assessment conducted by 30 June 2018				
		1.6 Risk assessment and management plan prepared by 30 June 2018				

³ ADB. 2017. Country Operations Business Plan for Turkmenistan, 2018-2019. Manila. The TA is listed as "Modernization of Railways Project." The name of the TA has been revised to better reflect its nature and scope.

⁴ ADB. 2011. Report and Recommendation of the President to the Board of Directors: Proposed Loan to Turkmenistan for the North-South Railway Project. Manila.

Major Outputs	Delivery Dates	Key Activities with Milestones
2. Project management capacity of the executing agency	31 September 2018	2.1 EA staff trained on international competitive bidding procedures by 30 May 2018
improved		2.2 Draft Presidential Resolution for the projects prepared by 30 June 2018
		2.3 EA staff trained on safeguard compliance by 30 August 2018
Due diligence and procurement packaging for the first ensuing project (Turkmenabat-Mary)	31 December 2018	3.1 Terms of reference of project supervision consultants completed for advertisement by 30 July 2018
completed		3.2 Bidding documents for all packages prepared for advance contracting with tender date of 30 September 2018
		3.3 Draft safeguards documents completed for ADB's review by 30 September 2018
		3.4 Economic and financial analysis of the project completed by 30 September 2018
		3.5 Poverty and social analysis completed by 30 September 2018
		3.6 Gender analysis completed, and gender action plan prepared by 30 September 2018
		3.7 RRP drafted by 31 December 2018
Due diligence and procurement packaging for the second ensuing project (Mary-	30 June 2019	4.1 Bidding documents for all packages prepared for advance contracting with tender date of 30 March 2019
Ashgabat) completed		4.2 Draft safeguards documents completed for ADB's review by 30 March 2019
		4.3 Economic and financial analysis of the project completed by 30 March 2019
		4.4 Poverty and social analysis completed by 30 March 2019
		4.5 Gender analysis completed, and gender action plan prepared by 30 April 2019
		4.6 RRP drafted by 30 June 2019

Major Outputs	Deliv	ery Dates	Key Activities with Milestones
Due diligence and procurement packaging for the third ensuing project (Ashgabat-	31 2019	December	5.1 Bidding documents for all packages prepared for advance contracting with tender date of 30 September 2019
Turkmenbashi) completed			5.2 Draft safeguards documents completed for ADB's review by 30 September 2019
			5.3 Economic and financial analysis of the project completed by 30 September 2019
			5.4 Poverty and social analysis completed by 30 September 2019
			5.5 Gender analysis completed, and gender action plan prepared by 30 October 2019
			5.6 RRP drafted by 30 December 2019

ADB = Asian Development Bank, EA = executing agency, RRP = report and recommendation of the president. Source: Asian Development Bank staff estimates.

C. Cost and Financing

- 9. The TA facility is estimated to cost \$825,000, of which \$750,000 will be financed on a grant basis by ADB's Technical Assistance Special Fund (TASF-other sources). The key expenditure items are listed in Appendix 1.
- 10. The government will provide counterpart support in the form of counterpart staff, office accommodation, and other in-kind contributions. The government was informed that approval of the TA does not commit ADB to finance any ensuing project.

D. Implementation Arrangements

11. ADB will administer the TA facility. CWTC will select, supervise and evaluate consultants. The consultants will be attached to a program management unit (PMU) to be set up by MRT. They will work with the PMU to prepare the ensuing projects. Detailed design, for those project components which require them, will be conducted by the government's design institute. Consultants recruited under the TA facility will help check and improve such designs as required. The implementation arrangements are summarized in Table 3.

Table 3: Implementation Arrangements

Aspects	Arrangements			
Indicative implementation period	April 2018–December 20	20		
Executing agency	Ministry of Railway Trans	sport of Turkmenistan		
Implementing agency	Central and West Asia D	epartment, ADB		
Consultants	To be selected and enga	ged by ADB		
	Individual: individual	International, 22	\$701,700	
	selection or as	person-months, and		
	resource persons	National, 12 person- months		
Procurement	To be procured by consu	ıltants		
	Shopping 2 contracts \$10,00			
Advance contracting	To expedite the conduct of the TA, selection of key individual			
	consultant positions will commence through advance contracting			

Aspects	Arrangements
	following PAI 2.04. Negotiation and signing of the consulting contract will only occur after the TA becomes effective.
Disbursement	The TA resources will be disbursed following ADB's <i>Technical Assistance Disbursement Handbook</i> (2010, as amended from time to time).
Asset turnover or disposal arrangement upon TA completion	Any equipment or software purchased under the TA will be handed over to the Executing Agency upon TA completion.

ADB = Asian Development Bank, ICS = individual consultant selection, PAI = Project Administration Instructions, TA = technical assistance, TRTA = transaction technical assistance.

Source: Asian Development Bank staff estimates.

- 12. **Consulting services.** The transaction TA facility will require approximately 22 personmonths (PMs) of international consultants and 12 PMs of national consultants' inputs. This includes a total of 2 person-months of resource person inputs, who will provide short-term, highly specialized inputs in support of the project preparation. Consultants will support ADB staff in the conduct of standard due diligence on the proposed projects, including technical, economic and financial, governance, poverty and social, and safeguards. They will also provide capacity building to the EA in selected areas, including procurement and safeguards.
- 13. These consultants and resource persons will be recruited individually, with either input-based or output-based contracts as appropriate. For project due diligence in a highly specialized subsector such as railways, hiring individual consultants is more appropriate, faster to mobilize, and more cost-effective than firms. ADB will engage the consultants following the ADB Procurement Policy (2017, as amended from time to time) and its associated project administration instructions and/or staff instructions.⁵ Apart from work on common due diligence required across all three projects (outputs 1 and 2 in Table 2), the consultants will be sent separate notices-to-proceed for preparatory work on each of the three projects to be supported by the transaction TA facility. Such notices-to-proceed will follow the approval of each project's concept paper.
- 14. The consultants will procure goods, mainly in the form of software to be used for noise and environmental modelling and monitoring, and railway traffic modelling. These will be handed over to the EA upon TA completion.

II. THE PRESIDENT'S DECISION

15. The President, acting under the authority delegated by the Board, has approved the provision of technical assistance not exceeding the equivalent of \$750,000 on a grant basis to Turkmenistan for preparing the Central Asia Regional Economic Cooperation Corridors 2, 3 and 6 (Turkmenabat–Mary–Ashgabat–Turkmenbashi) Railway Modernization Projects, and hereby reports this action to the Board.

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⁵ Terms of Reference for Consultants (accessible from the list of linked documents in Appendix 3).

COST ESTIMATES AND FINANCING PLAN

(\$'000)

tem		Amount
4. As	sian Development Bank ^a	
1.	Consultants	
	a. Remuneration and per diem	
	i. International consultants	500.8
	ii. National consultants	47.1
	b. Out-of-pocket expenditures	
	i. International and local travel	121.8
	ii. Goods (rental and/or purchase)	10.0
	iii. Surveys	10.0
	iv. Training, seminars, and conferences	5.0
	v. Reports and communications	5.0
	vi. Miscellaneous administration and support costs	2.0
2.	Training, seminars, and conferences	10.0
3.	Miscellaneous administration and support costs b	28.0
4.	Contingencies	10.3
	Subtotal (A)	750.0
	Total	750.0

Note: The technical assistance (TA) is estimated to cost \$825,000, of which contributions from the Asian Development Bank are presented in the table above. The government will provide counterpart support in the form of counterpart staff, office accommodation and other in-kind contributions. The value of government contribution is estimated to account for 10% of the total TA cost.

Source: Asian Development Bank estimates.

^a Financed by the Asian Development Bank's Technical Assistance Special Fund (TASF-other sources).

^b Includes costs for translation and interpretation.

PROJECTS UNDER TECHNICAL ASSISTANCE FACILITY

Table A2.1: Indicative Consultants' Input Allocation (person-month)

Item		Project 1 (Turkmenab at-Mary)	Project 2 (Mary- Ashgabat)	Project 3 (Ashgabat- Turkmenbas hi)
	Total	complex	complex	complex
International Transport Economist and Team Leader	5.0	2.0	2.0	1.0
International Railway Track and Alignment Engineer	3.0	1.0	1.0	1.0
International Railway Signaling and Communications Specialist	1.0	0.5	0.5	0.0
International Materials Engineer	1.0	1.0	0.0	0.0
International Railway Asset Management Specialist	1.0	1.0	0.0	0.0
International Procurement and Contract Specialist	3.0	1.5	1.0	0.5
International Financial Specialist	2.0	1.0	0.5	0.5
International Environment Specialist	3.0	1.0	1.0	1.0
International Resettlement Specialist	2.0	1.0	0.5	0.5
International Railway Sector Specialists and Resource Persons	1.0	0.5	0.5	0.0
National Railway Track and Alignment Engineer	3.0	1.0	1.0	1.0
National Environment Specialist	3.0	1.0	1.0	1.0
National Resettlement Specialist	3.0	1.0	1.0	1.0
National Social Development and Gender Specialist	2.0	1.0	0.5	0.5
National Railway Sector Specialists and Resource Persons	1.0	0.5	0.5	0.0

Source: Asian Development Bank staff estimates.

Table A2.2: Indicative Technical Assistance Budget Allocation (\$'000)

Item Updated risk ca	tegory		Total	Project 1 (Turkmenab at-Mary) complex	Project 2 (Mary- Ashgabat) complex	Project 3 (Ashgabat- Turkmenba shi) complex
Training, seminars, and conferences		10.0	5.0	3.0	2.0	
Miscellaneous support costs	administration	and	28.0	15.0	8.0	5.0
Contingencies			10.3	4.0	3.0	3.3

Source: Asian Development Bank staff estimates.

LIST OF LINKED DOCUMENTS
http://www.adb.org/Documents/LinkedDocs/?id=51360-002-TAReport

1. Terms of Reference for Consultants