

SBF Project Implementation Monitoring Report

Tajikistan: Nurek Hydropower Rehabilitation Project Phase I

1. Project Information

Project ID:	000018	Investment Number:	L0018A
Member:	Tajikistan	Region:	Central Asia
Sector:	Energy	Sub-sector:	Hydropower
Financing Type:	<input checked="" type="checkbox"/> Loan <input type="checkbox"/> Guarantee	Co-financier(s):	WB (IDA)
Borrower:	Republic of Tajikistan		
Implementing Agency:	Barqi Tojik (BT)		
Project Team Leader:	Igor Popkov		
Site Visits:	Oct. 17-21, 2016; Feb. 7-9, 2017; Mar. 19-21 2019		

2. Project Summary and Objectives

The objectives of the Project are to rehabilitate and restore the generating capacity of three units of the Nurek hydropower plant, improve their efficiency, and strengthen the safety of the Nurek dam.

Components: 1) Power Plant Rehabilitation Component, 2) Dam Safety Component.

Total Project Cost (Phase I): US\$350 million

Financing plan: IDA US\$225.7 million and AIIB US\$60 million (joint co-financing); EaDB US\$40 million (parallel co-financing).

3. Key Dates

Approved:	June 15, 2017	Signed:	August 1, 2017
Effective:	April 30, 2018	Restructured (if any):	n/a
Orig. Closing:	December 31, 2023	Rev. Closing (if any):	n/a

4. Disbursement Summary (USD million)

a) Committed:	60	b) Cancelled (if any):	n/a
c) Disbursed:	8.9	d) Most recent disbursement: (amount /date)	0.9 /19.08.2019
e) Undisbursed:	51.1	f) Disbursement Ratio (%) ¹ :	14.79

5. Project Implementation Update

The progress towards achievement of project objectives is satisfactory and there are no material factors that may delay achievement of objectives by the project closing date. The progress on implementation is being monitored by BT, the Nurek HPP PIU, and Stucky – the project management consultant.

¹ Disbursement Ratio is defined as the volume (i.e. the dollar amount) of total disbursed amount as a percentage of the net committed volume, i.e., $f = c / (a - b)$

Components	Physical Progress	Environmental & Social Compliance	Procurement	Financial Management
Component 1: Power Plant Rehabilitation (design, model testing and installation of turbines) (US\$45 M)	18% (\$8.1m)	No issue	<p>Component 1.1 Replacement and refurbishment of mechanical, electrical, and electromechanical equipment.</p> <p>Power Plant Equipment Contract was awarded to ANDRITZ HYDRO GMBH (Germany and Austria)/ANDRITZ HYDRO CORPORATION (USA) and signed on July 21, 2018. The signed contract price for the Phase I is EUR120,938,466. More details can be found on the following link: http://projects.worldbank.org/procurement/noticeoverview?lang=en&iid=OP00055522</p> <p>The contractor has mobilized at the site. The turbine hydraulic model testing and design works are underway and expected to be completed by April 2020 and shipment of generating units is expected to commence.</p> <p>Component 1.2. Replacement of six autotransformers: 100% financed by the Eurasian Development Bank.</p>	No issue
Component 2: Dam Safety (civil works) (US\$15 M)	0	No issue	<p>Dam Safety Component consists of 2 parts:</p> <ol style="list-style-type: none"> 1) Dam monitoring instrumentation, geodetic instrumentation and geotechnical investigations. The bidding documents were issued in May 2019. Bids were submitted and are currently under review. Bid evaluation report is expected in November-December 2019. 2) Miscellaneous civil works for improvement of dam safety. The bidding documents would be finalized by August 2020. <p>http://projects.worldbank.org/procurement/noticeoverview?lang=en&iid=OP00072542</p>	No issue

6. Status of the Grievance Redress Mechanism (GRM)

The Stakeholders Engagement Plan includes a GRM, which is based on BT's existing GRM with adjustments to ensure that there are uptake points at the local level (through local BT offices and local authorities). The GRM includes uptake points at BT in Dushanbe, local BT offices, local authorities, and the Project Management Consultant. Complainants will be able to make complaints in writing, email, or in person. The GRM references the coordination of registration and response of complaints between local and central levels with local BT offices playing a key part. Information on the GRM will be made available through local-level disclosure of the Stakeholders Engagement Plan and outreach during the consultations.

The GRM system at BT will allow generating the data on percentage of registered grievances received and responded to within stipulated service standards. BT and its regional branches will register all the grievances received from various individuals and other stakeholders. The reports to be submitted to the Lenders will include gender-disaggregated data on grievances to allow tracking percent of grievances from females.

7. Results Monitoring

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Project Objective Indicators	Baseline (Year1)	2017		2018		2019		2020		2021		2022	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Indicator #1: Generation capacity of energy constructed or rehabilitated under the Project (MW)	0 MW	0 MW	0	0	0	0		335		670		1,005	
Indicator #2: Estimated annual electricity generation of three units included in the scope of the Project (GWh)	At least 3,750GWh	At least 3,750GWh		At least 3,750GWh		At least 2,500GWh		At least 2,511GWh		At least 2,522GWh		At least 3,783GWh	
Indicator #3: Estimated increase of winter electricity generation of rehabilitated units due to efficiency improvements	0GWh	0GWh	0	0GWh	0	0GWh		At least 11GWh		At least 22GWh		At least 33GWh	
Indicator #4: Improved dam safety against hydrological and geological risks	No	No	-	No	-	No		No		Yes		Yes	
Indicator #5: People provided with improved electricity service	0	0	0	0	0	0		8,276,000		8,276,000		8,276,000	
Female beneficiaries	0	0	0	0	0	0		49.3%		49.3%		49.3%	
Project Result Indicators	Baseline (Year1)	2017		2018		2019		2020		2021		2022	
		Target	Actual	Target	Actual	Target	Actual	Target	Target	Target	Actual	Target	Actual
Indicator #1: Cumulative number of generating units rehabilitated		Contract for rehabilitation is signed and effective		Turbine hydraulic model test is completed		Design for generating units is completed and manufacturing		1		1		3	

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						commenced							
Indicator #2: Cumulative number of auto-transformers replaced		Bidding document is issued and evaluation of bids is completed		Contract for replacement of auto-transformers is signed and effective		The supply of auto-transformers is underway		Installation of auto-transformers is underway		6		6	
Indicator #3: Enhanced hydrological safety		Once in 10,000 years flood		Once in 10,000 years flood		Once in 10,000 years flood		Once in 10,000 years flood		Once in 10,000 years flood		Once in 10,000 years flood	
Indicator #4: Upgrade of the dam monitoring instrumentation completed		Bidding document is issued		Contract for upgrade of dam instrumentation is signed and effective		The supply and installation of the dam monitoring instrumentation commenced		The dam monitoring instrumentation is partly operational		The dam monitoring instrumentation is fully operational		-	
Indicator #5: Civil, electrical and mechanical works for improvement of the dam safety completed		Bidding document is issued		Contract for procurement of the dam safety improvement works is signed and effective		The dam safety improvement works are in progress		The dam safety improvement works are in progress		Rehabilitation of the spillway tunnel, gates and hoisting system is completed		-	
Indicator #6: Update of Emergency Preparedness Plan (EPP) and		Draft updated EPP and O&M plans are reviewed by		Final updated EPP and O&M		Final updated EPP and O&M		Final updated EPP and O&M		Final updated EPP and O&M		Final updated EPP and O&M	

preparation of O&M plans completed		BT and other relevant state agencies		plans are approved by BT and other relevant state agencies		plans are effective and implemented		plans are effective and implemented		plans are effective and implemented		plans are effective and implemented	
Indicator #7: Percent of registered Project-related grievances (disaggregated by gender) responded to within stipulated service standards for response times		100%		100%		100%		100%		100%		100%	

Remarks:

Since physical project implementation has just started and some contracts are still under procurement stage, no result has been generated.