

Kariba Dam Rehabilitation Project (RI) (P146515)

AFRICA EAST | Eastern Africa | Water Global Practice | IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 14 | ARCHIVED on 21-Sep-2021 | ISR47855 |

Implementing Agencies: Zambezi River Authority, The Republic of Zambia

Key Dates

Key Project Dates

Bank Approval Date: 09-Dec-2014	Effectiveness Date: 20-Aug-2015
Planned Mid Term Review Date: 16-Nov-2020	Actual Mid-Term Review Date: 09-Nov-2020
Original Closing Date: 28-Feb-2025	Revised Closing Date: 28-Feb-2025

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective is to assist in improving the safety and reliability of the Kariba Dam.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

Components Table

Name

No

Component 1: Institutional and Project Management:(Cost \$70.30 M) Component 2: Plunge Pool Reshaping:(Cost \$99.30 M) Component 3: Spillway Refurbishment:(Cost \$124.60 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	Moderately Satisfactory	Moderately Unsatisfactory
Overall Implementation Progress (IP)	Moderately Unsatisfactory	Moderately Unsatisfactory
Overall Risk Rating	Substantial	High

Implementation Status and Key Decisions

The project remains significantly behind schedule with new delays expected. The implementation and financing arrangements of the project are complex due to the nature of the engineering works (including the discovery of unanticipated ground geotechnical conditions, resulting in design and construction complications) as well as the multiple sources of financing. In such context, robust action is needed to improve decision-making and avoid further delays. Some activities, especially related to recruitment of staff to support the project or contract modifications, have faced significant delays to be completed.

The ZRA has proactively managed the impacts of COVID-19 in the project and updated and disclosed the updated Environmental and Social Impact Assessment (ESIA) of the project.



Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance		Moderate	Moderate
Macroeconomic		Moderate	Moderate
Sector Strategies and Policies		Low	Low
Technical Design of Project or Program		□High	□High
Institutional Capacity for Implementation and Sustainability		Moderate	Substantial
Fiduciary		Moderate	Moderate
Environment and Social		□High	High
Stakeholders		Moderate	Moderate
Other		Moderate	Moderate
Overall		Substantial	High

Results

PDO Indicators by Objectives / Outcomes

Number of people be	enefitting in the project area through i	risk reduction and avoided d	isaster (Text, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3,000,000 at risk from failure	Dam break analysis complete and EPP update underway.	Dam break analysis complete and EPP update underway.	3,000,000 people no longer at risk from failure
Date	27-Feb-2015	10-Feb-2021	10-Aug-2021	28-Feb-2025
Comments:	Successful completion o downstream populations	f the rehabilitation works will	l improve the safety and ren	nove the threat of risks

Emergency Preparedness Plan adopted and operationalized						
► Emergency Preparedness Plan adopted and operationalized (Yes/No, Custom)						
Baseline Actual (Previous) Actual (Current) End Target						



Value	No	No	No	Yes
Date	27-Feb-2015	10-Feb-2021	10-Aug-2021	28-Feb-2025
Comments:	curve governed by EPP.	e in securing the safety of Ka An update of the EPP is unde ated again and finalized base	rway and will be complete	d prior to plunge pool

Intermediate Results Indicators by Components

Value	operations due to dam safety concerns	commencement of the plunge pool works	the plunge pool and the commencement of the excavation and reshaping works	and operationalized
Date	27-Feb-2015	10-Feb-2021	10-Aug-2021	28-Feb-2025
Comments:	Monitors progress in upd	lating information for improven	nents to the EPP	
	is Completed and Integrated into the E Baseline Limited information	PP (Text, Custom) Actual (Previous) Dam break analysis	Actual (Current) Dam break analysis	
Value	Baseline Limited information available	Actual (Previous) Dam break analysis completed.	Dam break analysis completed.	Flood inundation and risk maps integrated into EPP
Value	Baseline Limited information available 27-Feb-2015	Actual (Previous) Dam break analysis completed. 29-May-2020	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated
Value	Baseline Limited information available 27-Feb-2015	Actual (Previous) Dam break analysis completed.	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated into EPP
Value Date Comments:	Baseline Limited information available 27-Feb-2015 Monitors progress in upd	Actual (Previous) Dam break analysis completed. 29-May-2020	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated into EPP
Value Date Comments: Component 2: Plunge	Baseline Limited information available 27-Feb-2015 Monitors progress in upd	Actual (Previous) Dam break analysis completed. 29-May-2020 lating information for improvem	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated into EPP
Value Date Comments: Component 2: Plunge	Baseline Limited information available 27-Feb-2015 Monitors progress in upd	Actual (Previous) Dam break analysis completed. 29-May-2020 lating information for improvem	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated into EPP
Value Date Comments: Component 2: Plunge	Baseline Limited information available 27-Feb-2015 Monitors progress in upd	Actual (Previous) Dam break analysis completed. 29-May-2020 lating information for improvem	Dam break analysis completed. 29-May-2020	Flood inundation and risk maps integrated into EPP
Value Date Comments: Component 2: Plunge	Baseline Limited information available 27-Feb-2015 Monitors progress in upd Pool Reshaping ne Excavated (Cubic Meter(m3), Custo	Actual (Previous) Dam break analysis completed. 29-May-2020 lating information for improvem	Dam break analysis completed. 29-May-2020 hents to the EPP	Flood inundation and risk maps integrated into EPP 28-Feb-2025

Comments: Measures improved safety through physical interventions and stability of plunge pool. The construction of piers 2 to 5 of the cofferdam has been completed. Excavation for piers 6 to 8 is completed and concreting of the foundation for these three piers is underway. Plunge Pool dewatering (to begin excavation and reshaping) is not foreseen to commence before late 2022.



Component 3: Spillway Refurbi	shment			
► Spillway: Gates Refurbished	(Text, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0 gates refurbished	Fabrications of BIP and Needle Cofferdam underway	Fabrication of the stop beams, and needle cofferdams is complete with stop beams and cofferdam one on site and delivery of cofferdam two in progress at the time of the mission. Built-in parts fabrication is ongoing.	6 gates refurbished
Date	27-Feb-2015	10-Feb-2021	10-Aug-2021	28-Feb-2025
Comments:	Measures improved relia	bility through improved operat	ions via refurbishment of th	he spillway
► Spillway: Rule Curve (Text, 0	Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Rule curve reduced by 3.5m	The rule curve will be reviewed and revised as part of the ongoing process of the preparation for the works.	Due to ongoing works, the rule curve remains reduced by 3.5m	Rule curve restored to full supply level
Date	27-Feb-2015	10-Feb-2021	10-Aug-2021	28-Feb-2025
Comments:		oved safety of the plunge pool eflected in the operating rule	l and reliability of the spillw	ay through restoration of

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

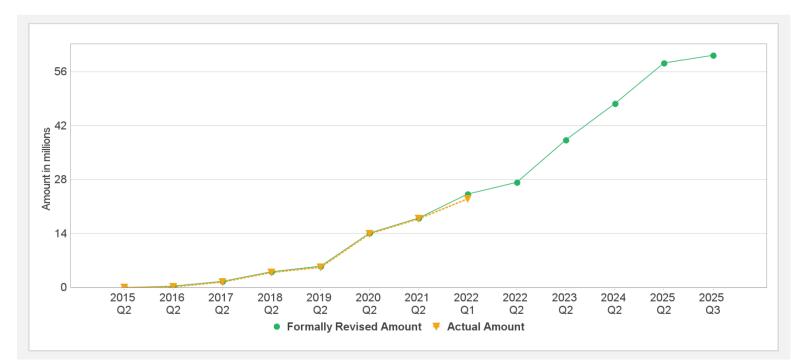
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% [Disbursed
P146515	IDA-55630	Effective	USD	75.00	75.00	0.00	11.89	59.91		17%
P146515	TF-19029	Effective	USD	20.00	20.00	0.00	11.09	8.91		55%

Key Dates (by loan)



Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P146515	IDA-55630	Effective	09-Dec-2014	20-Feb-2015	20-Aug-2015	28-Feb-2025	28-Feb-2025
P146515	TF-19029	Effective	09-Dec-2014	20-Feb-2015	20-Aug-2015	30-Sep-2019	30-Jun-2022

Cumulative Disbursements



PBC Disbursement

PBC ID PBC Type Description Coc PBC Amou	t Achievement Disbursed amount in Disbursement % Status Coc for PBC
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Restructuring History

Level 2 Approved on 27-Sep-2019

Related Project(s)

There are no related projects.