



Kariba Dam Rehabilitation Project (RI) (P146515)

EASTERN AND SOUTHERN AFRICA | Eastern and Southern Africa | IBRD/IDA | Investment Project Financing (IPF) | FY 2015 | Seq No: 20 | Archived on 06-Jun-2024 | ISR00432

Implementing Agencies: Zambezi River Authority

1. OBJECTIVE**1.1 Development Objective**

Original Development Objective (Approved as part of Approval package on 05-Nov-2023)

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

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

No

2. COMPONENTS

Name

Component 1: Institutional and Project Management:(Cost 53,100,000.00)

Component 2: Plunge Pool Reshaping:(Cost 120,000,000.00)

Component 3: Spillway Refurbishment:(Cost 100,000,000.00)

3. OVERALL RATINGS

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

4. KEY ISSUES & STATUS



4.1 Implementation Status and Key Decisions

The project is making consistent progress in rehabilitation works that includes the plunge pool reshaping and spillway refurbishment works. The second phase of spillway refurbishment has now been initiated. ZRA continues to update the Emergency Preparedness Plan (EPP) of the dam as well as strengthen the Early Warning System.

5. SYSTEMATIC OPERATIONS RISK-RATING TOOL

Risk Category	Rating at Approval	Last Approved Rating ISR Seq. 019 - 14 Dec 2023	Proposed 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	●	● Substantial	● Substantial
Fiduciary	●	● Moderate	● Substantial
Environment and Social	●	● High	● High
Stakeholders	●	● Moderate	● Moderate
Overall	●	● High	● High



6. RESULTS

6.1 PDO Indicators by PDO Outcomes

Number of people benefitting in the project area through risk reduction and avoided disaster								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Number of people benefitting in the project area through risk reduction and avoided disaster (Text)	3,000,000 at risk from failure	Feb/2015	Project implementation in progress @76%	31-Oct-2023			3,000,000 people no longer at risk from failure	Feb/2025
	Comments on achieving targets		The 83% progress covers 94% achieved under the Plunge Pool works and 70% for the Spillway refurbishment works. Once the works are completed, the 3 million people will no longer be at risk.					
Emergency Preparedness Plan adopted and operationalized								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Emergency Preparedness Plan adopted and operationalized (Yes/No)	No	Feb/2015	No	31-Oct-2023			Yes	Feb/2025
	Comments on achieving targets		Emergency Response Plan that has been developed and operationalized as well as the draft EPP which is being finalized.					

6.2 Intermediate Results Indicators by Components

Component 1: Institutional and Project Management								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year



Emergency Preparedness Plan Updated (Text)	Existing EPP limits operations due to dam safety concerns	Feb/2015	ERP developed and tested through a mock drill. Draft EPP compiled and under review. EWS under procurement.	31-Oct-2023			Updated EPP adopted and operationalized	Feb/2025
	Comments on achieving targets		Monitors progress in updating information for improvements to the EPP					
Dam Break Analysis Completed and Integrated into the EPP (Text)	Limited information available	Feb/2015	Recommendations from the DBA under implementation. Flood inundation maps to be integrated into EPP. Flood mapping currently scoped under EWS consultancy.	31-Oct-2023			Flood inundation and risk maps integrated into EPP	Feb/2025
	Comments on achieving targets		Recommendations from the DBA under implementation. Flood inundation maps to be intergrated into EPP.					
Women and girls accessing STEM training opportunities (Number)	0.00	Mar/2022	0.00	31-Oct-2023			20.00	Feb/2025
Component 2: Plunge Pool Reshaping								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year

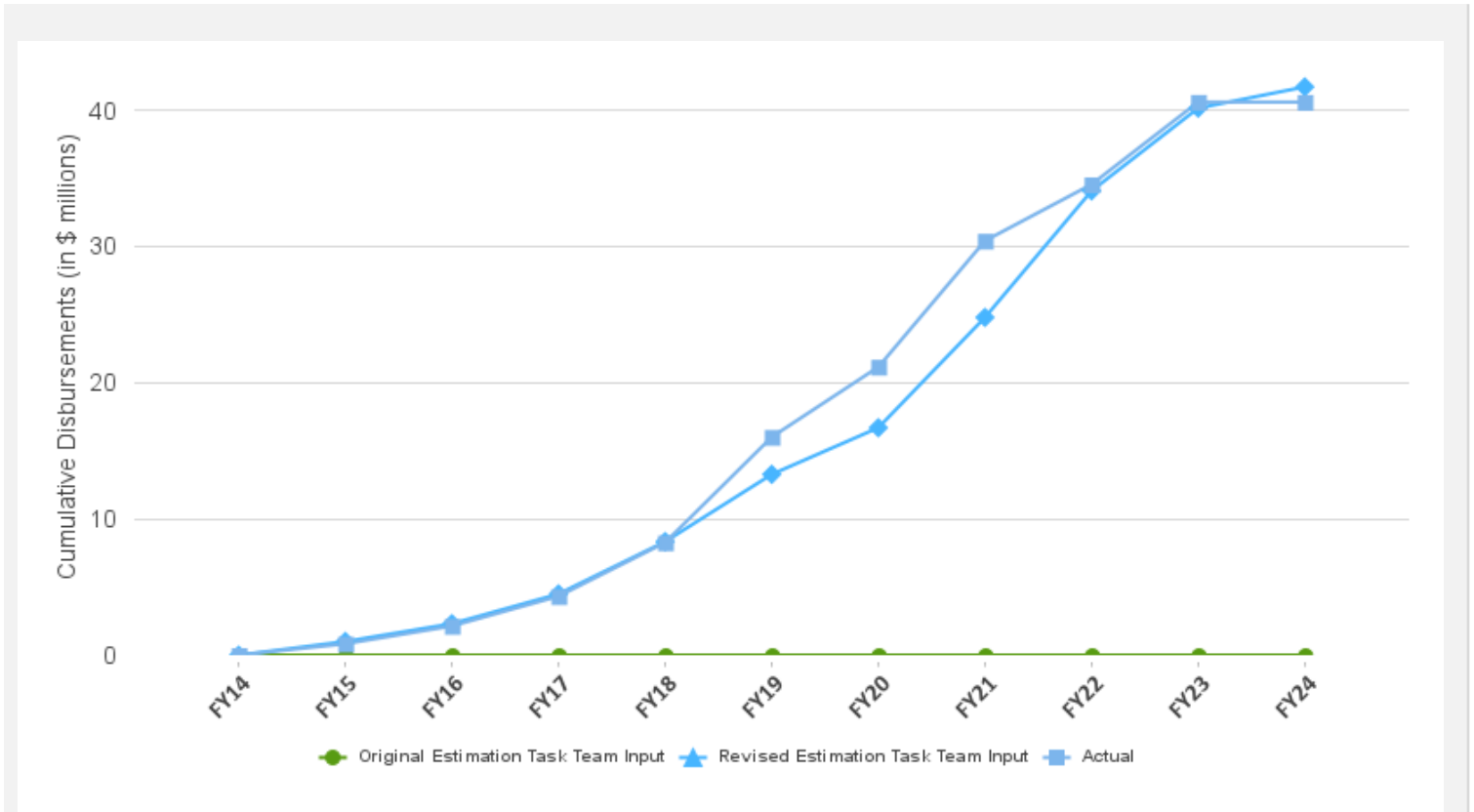


Plunge Pool: Volume Excavated (Cubic Meter(m3))	0.00	Feb/2015	275,000.00	31-Oct-2023			300,000.00	Dec/2024
Progress with grout curtain under the plunge pool works (Percentage)	0.00	May/2015	100.00	31-Oct-2023			100.00	Feb/2025
Component 3: Spillway Refurbishment								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Spillway: Gates Refurbished (Text)	0 gates refurbished	Feb/2015	Rewatering of sluice 6 completed. Moving cofferdam set 1 from sluice 6 to sluice 5. Concrete pouring in sluice 2 ongoing. Installation of rebar in sluice 3.	31-Oct-2023			6 gates refurbished	Feb/2025
	Comments on achieving targets		Sluice 6 rewatered, Progress with BIP installation in sluice 2, 3 and Sluice 5 hydrodemolition has commenced.					
Spillway: Rule Curve (Text)	Rule curve reduced by 3.5m	Feb/2015	3.5m	31-Oct-2023			Rule curve restored to full supply level	Feb/2025
Progress with additional maintenance works at the spillway (Percentage)	0.00	Jan/2022	64.00	31-Oct-2023			100.00	Feb/2025



7. DATA ON FINANCIAL PERFORMANCE

7.1 Cumulative Disbursements



7.2 Disbursements (by loan)

Loan/Credit/TF	Status	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
TF-19029	Effective	20.00	20.00	0.00	17.57	2.43	87.87%
IDA-55630	Effective	75.00	75.00	0.00	23.02	44.75	30.69%

7.3 Key Dates (by loan)

Loan/Credit/TF	Status	Approval	Signing	Effectiveness	Orig. Closing	Rev. Closing
IDA-55630	Effective	09-Dec-2014	20-Feb-2015	20-Aug-2015	28-Feb-2025	28-Feb-2025



TF-19029 Effective 09-Dec-2014 20-Feb-2015 20-Aug-2015 30-Sept-2019 28-Feb-2025

8. KEY DATES

Key Events	Planned	Actual
Approval	09-Dec-2014	09-Dec-2014
Effectiveness	21-Aug-2015	20-Aug-2015
Mid-Term Review No. 01	16-Nov-2020	09-Nov-2020
Operation Closing/Cancellation	28-Feb-2025	

9. RESTRUCTURING HISTORY

Restructuring Level 2 Approved on 27-Sept-2019

Restructuring Level 2 Approved on 18-Jun-2022

10. ASSOCIATED OPERATION(S)

There are no associated operations