#### IN Dam Rehabilitation and Improvement Project (P089985)

SOUTH ASIA | India | Water Global Practice |

IBRD/IDA | Investment Project Financing | FY 2010 | Seq No: 21 | ARCHIVED on 30-Mar-2021 | ISR46050 |

Implementing Agencies: Central Water Commission under the Ministry of Water Resources, India, Uttarakhand Jal Vidyut Nigam Limited, Odisha Water Resource Department, Tamil Nadu Water Resources Department, Kerala State Electricity Board, Karnataka Water Resources Development Organisation, TANGEDCO Tamil Nadu, Kerala Water Resources Department

## **Key Dates**

## **Key Project Dates**

Bank Approval Date: 29-Jun-2010 Effectiveness Date: 18-Apr-2012

Planned Mid Term Review Date: 13-Oct-2014 Actual Mid-Term Review Date: 17-Oct-2014

Original Closing Date: 31-Dec-2016 Revised Closing Date: 31-Mar-2021

## **Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

To improve the safety and operational performance of selected existing dams in the territory of the participating states. The PDO will be achieved through rehabilitation and improvement of dams and improvement in central and state-level institutional capacity to sustainably manage dam safety administration and operation and maintenance.

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

Public Disclosure Authorized

## Components

Rehabilitation and Improvement of Dams and Associated Appurtenances: (Cost \$377.86 M)

Dam Safety Institutional Strengthening:(Cost \$32.40 M)

Project Management:(Cost \$39.80 M)

#### **Overall Ratings**

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

# Implementation Status and Key Decisions

Project activities have been substantially completed. Achievements relate to successfully completed dam rehabilitation to address dam safety issues. Emergency Action Plans (EAP) and O&M manuals have been prepared for project dams. The capacity of implementing agencies to deal with dam safety issues and O&M of dams has increased as a result of the large number of capacity building and training activities carried out under the project. The few contracts that cannot be fully completed by the loan closing date (March 31, 2021) due to COVID-19 related slowdown, will be transferred to DRIP-2 which was approved by the World Bank Board of Executive Directors on December 15, 2020.

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# Risks

# **Systematic Operations Risk-rating Tool**

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

# Results

# **PDO Indicators by Objectives / Outcomes**

To improve the safety and operational performance of selected existing dams in participating states.

▶ Number of project dams with the improved ability (structural or non-structural) to safely cater for the design floods. (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	27.00	155.00	183.00	197.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021

► Number of project dams with acceptable stability and seepage. (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	14.00	180.00	179.00	198.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021

▶Number of project dams with basic dam safety facilities in place. (Number, Custom)

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	Baseline	Actual (Provious)	Actual (Current)	End Target
Malara		Actual (Previous)		<del>-</del>
Value	19.00	206.00	195.00	198.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021
► Number of project dams with n	eed-based O&M plans opera	ationalized. (Number, Custon	1)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	198.00	191.00	150.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021
► Required budget per state for a	adequate O&M. (Percentage	, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	30.00	50.00	55.00	80.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021
► Number of project dams where	e emergency response plans	have been prepared and dis	seminated to the population	on. (Number, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	85.00	198.00	150.00
Date	01-Jan-2021	29-Jan-2021	22-Mar-2021	31-Mar-2021

## **Overall Comments**

Date

CWC refers to project dams that comprise a single dam or more than one dams that form one reservoir. Although the project has implemented activities on 223 dam bodies, the number of project dams is 198. O&M manuals and Emergency Action Plans were prepared for each project dam, i.e. for one or more dams combined that form one reservoir. The ICR team will assess this definition and determine how best to reflect the target number of dams in the results framework.

## **Intermediate Results Indicators by Components**

Component 1 : Rehabilitation and Improvement of Dams and Associated Appurtenances									
► Project dams with revised	▶ Project dams with revised dam flood hydrology assessed and actions agreed to address changes in design parameters. (Number, Custom)								
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	210.00	220.00	198.00					

29-Jan-2021

22-Mar-2021

31-Mar-2021

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01-Jan-2021

	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	206.00	221.00	198.00
Date	02-Jun-2010	29-Jan-2021	22-Mar-2021	31-Mar-2021
►Project dams regi	stered and uploaded data in Dam	Assest Management System. (I	Number, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	206.00	198.00	198.00
Date	02-Jun-2010	29-Jan-2021	22-Mar-2021	31-Mar-2021
	updated and approved dam opera	tional manuals. (Number, Custo	om)	
▶Project dams with	Baseline	Actual (Previous)	Actual (Current)	End Target
				End Target 150.00
▶Project dams with	Baseline	Actual (Previous)	Actual (Current)	
▶Project dams with Value Date	Baseline 0.00	Actual (Previous) 198.00 29-Jan-2021	Actual (Current) 192.00 22-Mar-2021	150.00 31-Mar-2021
▶Project dams with Value Date	Baseline 0.00 02-Jun-2010	Actual (Previous) 198.00 29-Jan-2021	Actual (Current) 192.00 22-Mar-2021	150.00 31-Mar-2021
▶Project dams with Value Date	Baseline 0.00 02-Jun-2010 ency response plans prepared and	Actual (Previous) 198.00 29-Jan-2021 approved by the responsible a	Actual (Current) 192.00 22-Mar-2021 uthorities. (Number, Custor	150.00 31-Mar-2021

▶DSO offices strengthened to carry out mandated functions adequately. (Number, Custom)

Baseline

	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	3.00	8.00	8.00	9.00					
Date	01-Jan-2018	29-Jan-2021	22-Mar-2021	31-Mar-2021					
► Project dams with adequately	▶ Project dams with adequately trained staff that can implement the approved operation manuals. (Number, Custom)								

46.00 123.00 198.00 150.00 Value 01-Jan-2021 29-Jan-2021 22-Mar-2021 31-Mar-2021 Date

Actual (Previous)

Actual (Current)

**End Target** 

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▶ Percentage of grievances satisfactorily resolved by the project level GRC (Percentage, Custom)								
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	50.00	63.00	75.00				
Date	30-Aug-2018	29-Jan-2021	22-Mar-2021	31-Mar-2021				
Comments:	contractors as griev the courts. Contrac	ald be resolved without court cast ances, which accounts to about tual disputes between employer all and legal remedies to address	: 35 percent of all grievance rs and contractors are not u	es that are being resolved b				
▶% of skilled women professionals in dam operations and management - Kerala -WRD (Percentage, Custom)								
▶% of skilled women p	professionals in dam operations  Baseline			End Target				
►% of skilled women p		and management - Kerala -WR  Actual (Previous)  22.00	D (Percentage, Custom)  Actual (Current)  57.00	End Target 25.00				
	Baseline	Actual (Previous)	Actual (Current)					
Value Date	Baseline 0.00 29-Jun-2018 men professionals in dam opera	Actual (Previous) 22.00 29-Jan-2021 ations and management under I	Actual (Current) 57.00 22-Mar-2021  DRIP - Uttarkhand (Number	25.00 31-Mar-2021 r, Custom)				
Value  Date  ► Number of skilled wo	Baseline 0.00 29-Jun-2018 men professionals in dam opera	Actual (Previous) 22.00 29-Jan-2021 ations and management under I	Actual (Current) 57.00 22-Mar-2021  DRIP - Uttarkhand (Number Actual (Current)	25.00 31-Mar-2021 r, Custom) End Target				
Value Date	Baseline 0.00 29-Jun-2018 men professionals in dam opera	Actual (Previous) 22.00 29-Jan-2021 ations and management under I	Actual (Current) 57.00 22-Mar-2021  DRIP - Uttarkhand (Number	25.00 31-Mar-2021 r, Custom)				

# **Performance-Based Conditions**

# **Data on Financial Performance**

# Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Г	Disbursed
P089985	IBRD-79430	Closed	USD	175.00	139.65	35.35	139.65	0.00		100%
P089985	IBRD-89090	Effective	USD	137.00	36.00	101.00	14.12	21.88		39%
P089985	IDA-47870	Closed	USD	175.00	139.65	35.35	130.17	0.00		100%

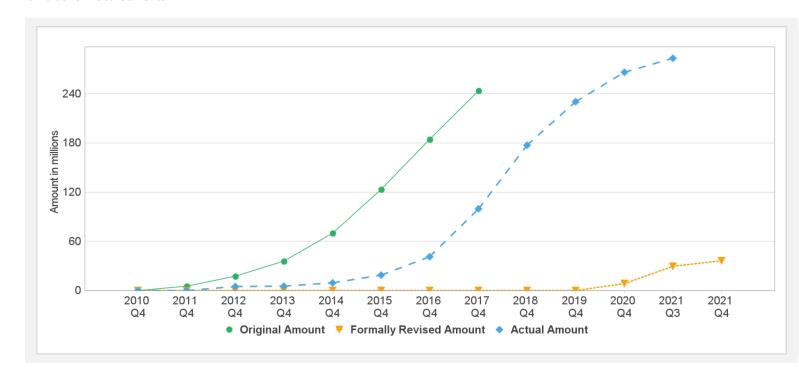
# Key Dates (by Ioan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P089985	IBRD-79430	Closed	29-Jun-2010	21-Dec-2011	18-Apr-2012	31-Dec-2016	29-Jun-2020

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P089985	IBRD-89090	Effective	28-Feb-2019	08-Mar-2019	28-Nov-2019	29-Jun-2020	31-Mar-2021
P089985	IDA-47870	Closed	29-Jun-2010	21-Dec-2011	18-Apr-2012	31-Dec-2016	29-Jun-2020

#### **Cumulative Disbursements**



#### **PBC Disbursement**

PBC ID PBC Type Description Coc PBC Amoun	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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## **Restructuring History**

Level Approved on 20-Dec-2011 ,Level 2 Approved on 28-Feb-2013 ,Level 2 Approved on 07-Apr-2014 ,Level 2 Approved on 26-Sep-2014 ,Level 2 Approved on 14-Jul-2015 ,Level 2 Approved on 25-May-2017 ,Level 2 Approved on 19-Jun-2020 ,Level Approved on 23-Jun-2020 ,Level 2 Approved on 03-Dec-2020 ,Level 2 Approved on 18-Mar-2021

# Related Project(s)

P166977-Dam Rehabilitation & Improvement Project - Restructuring and Additional Financing

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