Vishnugad Pipalkoti Hydro Electric Project (P096124)

SOUTH ASIA | India | Energy & Extractives Global Practice |

IBRD/IDA | Investment Project Financing | FY 2011 | Seq No: 25 | ARCHIVED on 24-May-2022 | ISR50899 |

Implementing Agencies: THDC (Tehri Hydro Development Corporation), THDC

### **Key Dates**

#### **Key Project Dates**

Bank Approval Date: 30-Jun-2011 Effectiveness Date: 07-Nov-2011

Planned Mid Term Review Date: 29-Feb-2016 Actual Mid-Term Review Date: 29-Feb-2016

Original Closing Date: 31-Dec-2017 Revised Closing Date: 30-Jun-2022

#### **Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The Project Development Objectives are: (a) to increase the supply of electricity to India's national grid through the addition of renewable, low-carbon energy; and (b) strengthen the institutional capacity of THDC with respect to the preparation and implementation of economically, environmentally and socially sustainable hydropower projects.

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

No

Public Disclosure Authorized

# Components Table

Name

Capacity-building and Institutional Strengthening:(Cost \$10.00 M) Vishnugad Pipalkoti Hydro Electric Project:(Cost \$438.00 M)

#### **Overall Ratings**

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

#### Implementation Status and Key Decisions

The implementation progress has significantly improved over the past 6 months. These efforts need to be sustained and these activities still require continuous attention. Therefore, THDC was asked to efficiently utilize the resources and expertise provided by the Project Review Panel and Strategic Advisory Team whose activities were reconvened in December 2021. To build on the momentum from the recent implementation progress and closely monitor the achievement of the agreed milestones, THDC and the World Bank will continue organizing monthly check-in meetings.

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# Risks

# **Systematic Operations Risk-rating Tool**

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

# Results

# **PDO Indicators by Objectives / Outcomes**

Constantion suput	ity of energy constructed or rehabil	itated (Megawatt, Corporate)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
alue	0.00	0.00	0.00	444.00
ate	01-Jan-2014	23-Mar-2021	23-Mar-2021	30-Jun-2022
		the project (Magayyatt Corner	ata Dragildaum)	
□Hydropower gen	eration capacity constructed under Baseline	the project (Megawatt, Corpora	ate Breakdown) Actual (Current)	End Target
□ <b>Hydropower gen</b> Value				End Target 444.00

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Value	0.00	0.00	0.00	444.00
Date	30-Jun-2011	23-Mar-2021	23-Mar-2021	30-Jun-2022
□Generation Capa	city of Hydropower constructed u	, , , ,	,	
□Generation Capa	city of Hydropower constructed u Baseline	nder the project (Megawatt, Cu Actual (Previous)	stom Breakdown)  Actual (Current)	End Target
□Generation Capa	, ,	, , , ,	,	End Target 444.00

# **Intermediate Results Indicators by Components**

Development of C	capacity Building and Institutional Stre	nathenina (CBIS) plan (Yes	/No. Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
alue	No	Yes	Yes	Yes
ate	01-Jan-2014	23-Mar-2021	23-Mar-2021	30-Jun-2021
□Initial skills gap a	analysis (resulting in preparation of CE	BIS Plan) (Text, Custom Sup	oplement)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
(false)	RFP for skills gap		0 11	Contract completed
□Review of THDC	•			implementation.  anagement and staff. (Tex
□Review of THDC Custom Suppleme	project effectiveness.  C institutional arrangements and curren	<u>'</u>	consultation with THDC ma	implementation.  anagement and staff. (Tex  End Target
□Review of THDC Custom Suppleme	project effectiveness.  C institutional arrangements and currenent)	nt capacity building plans in	consultation with THDC ma	implementation.  anagement and staff. (Tex
□Review of THDC Custom Suppleme	project effectiveness.  C institutional arrangements and currenent)  Baseline	Actual (Previous)  Complete	consultation with THDC ma	implementation.  anagement and staff. (Tex
□Review of THDC Custom Suppleme	project effectiveness.  C institutional arrangements and currentent)  Baseline  None	Actual (Previous)  Complete	consultation with THDC ma	implementation.  anagement and staff. (Tex  End Target
□Review of THDC Custom Suppleme Value □Development of	project effectiveness.  C institutional arrangements and currentent)  Baseline  None  framework institutional capacity plan (	Actual (Previous) Complete Text, Custom Supplement)	consultation with THDC ma  Actual (Current)  Complete	implementation.  anagement and staff. (Tex  End Target  Completed
□Review of THDC Custom Suppleme Value □Development of Value	project effectiveness.  C institutional arrangements and currentent)  Baseline  None  framework institutional capacity plan (	Actual (Previous)  Complete  Text, Custom Supplement)  Actual (Previous)  Complete	consultation with THDC ma  Actual (Current)  Complete  Actual (Current)	implementation.  anagement and staff. (Tex End Target Completed End Target
Custom Suppleme Value  Development of Value	project effectiveness.  C institutional arrangements and current ent)  Baseline  None  framework institutional capacity plan (  Baseline  None	Actual (Previous)  Complete  Text, Custom Supplement)  Actual (Previous)  Complete	consultation with THDC ma  Actual (Current)  Complete  Actual (Current)	End Target  Completed  End Target

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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	None	Ongoing	Ongoing	Completed as planne
►Social and Enviro	nmental Capacity Training (Yes/No	o, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	No	Yes	Yes	Yes
Date	01-Jan-2014	23-Mar-2021	23-Mar-2021	31-Dec-2021
□Recruitment/dep	loyment of new environmental staf	ff for corporate and project (Tex	ct, Custom Supplement)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2+1	Complete	Complete	100 percent of staff proposed in the EMF
□Social staff in Co	orporate Social and Environment C	cell (number of staff) (Number, 0	Custom Supplement)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.00	4.00	4.00	4.00
	Hydro Electric Project nity development plan implementati	ion (Percentage, Custom)		
	iity development plan implementati		Actual (Current)	End Target
RAP and commur		ion (Percentage, Custom)  Actual (Previous)  98.00	Actual (Current) 98.00	End Target 100.00
►RAP and commur	nity development plan implementati Baseline	Actual (Previous)		
RAP and commur	nity development plan implementati Baseline 0.00	Actual (Previous) 98.00 23-Mar-2021	98.00 23-Mar-2021	100.00 31-Dec-2021
RAP and commur	Baseline 0.00 02-Nov-2009 or property losses and restrictions	Actual (Previous) 98.00 23-Mar-2021 on access fully delivered (Perc	98.00 23-Mar-2021 eentage, Custom Supplemen	100.00 31-Dec-2021 nt)
RAP and commurate	Baseline 0.00 02-Nov-2009	Actual (Previous) 98.00 23-Mar-2021	98.00 23-Mar-2021	100.00 31-Dec-2021
►RAP and commur	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00	Actual (Previous) 98.00 23-Mar-2021 on access fully delivered (Pero Actual (Previous) 85.00	98.00 23-Mar-2021 sentage, Custom Supplement Actual (Current) 85.00	100.00 31-Dec-2021 nt) End Target 100.00
►RAP and commundate  □All entitlements f	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00 cheduled resettlement including Ha	Actual (Previous) 98.00 23-Mar-2021 on access fully delivered (Pero Actual (Previous) 85.00	98.00 23-Mar-2021  eentage, Custom Supplement Actual (Current) 85.00  APs (Percentage, Custom S	100.00 31-Dec-2021  nt) End Target 100.00  Supplement)
►RAP and commun  /alue  Date  All entitlements f  Value  Completion of so	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00 cheduled resettlement including Ha	Actual (Previous)  98.00  23-Mar-2021  on access fully delivered (Pero Actual (Previous)  85.00  activillage as agreed with the Paractual (Previous)	98.00 23-Mar-2021  entage, Custom Supplement Actual (Current) 85.00  APs (Percentage, Custom Statual (Current)	100.00 31-Dec-2021  nt) End Target 100.00  Supplement) End Target
PRAP and communication of some completion of some c	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00 cheduled resettlement including Ha	Actual (Previous) 98.00 23-Mar-2021 on access fully delivered (Pero Actual (Previous) 85.00	98.00 23-Mar-2021  eentage, Custom Supplement Actual (Current) 85.00  APs (Percentage, Custom S	100.00 31-Dec-2021  nt) End Target 100.00  Supplement)
PRAP and communication  Falue  Falue  Falue  Falue  Falue  Completion of so	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00 cheduled resettlement including Ha	Actual (Previous) 98.00 23-Mar-2021  on access fully delivered (Pero Actual (Previous) 85.00  activillage as agreed with the Processian Actual (Previous) 90.00	98.00 23-Mar-2021  Dentage, Custom Supplement Actual (Current) 85.00  APs (Percentage, Custom Statual (Current) 90.00	100.00 31-Dec-2021  nt) End Target 100.00  Supplement) End Target 100.00
►RAP and commun  /alue  Date  All entitlements f  Value  Completion of so	Baseline 0.00 02-Nov-2009 or property losses and restrictions Baseline 0.00 cheduled resettlement including Ha Baseline 0.00	Actual (Previous) 98.00 23-Mar-2021  on access fully delivered (Pero Actual (Previous) 85.00  activillage as agreed with the Processian Actual (Previous) 90.00	98.00 23-Mar-2021  Dentage, Custom Supplement Actual (Current) 85.00  APs (Percentage, Custom Statual (Current) 90.00	100.00 31-Dec-2021  nt) End Target 100.00  Supplement) End Target 100.00

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► Headrace tunnel co	inpletion (Fercentage, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	27.00	4.00	100.00
Date	02-Nov-2009	23-Mar-2021	23-Mar-2021	30-Jun-2022
►Power house civil e	excavation (Percentage, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	75.00	75.00	100.00
Date	02-Nov-2009	23-Mar-2021	23-Mar-2021	30-Jun-2022
➤ Desilting chamber (	(Percentage, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	90.00	95.00	100.00
value				
Date	02-Nov-2009 ro-mechanical (equipment installation	23-Mar-2021 n) (Text, Custom)	23-Mar-2021	30-Jun-2022
Date		n) (Text, Custom)  Actual (Previous)	Actual (Current)	30-Jun-2022 End Target
Date ▶Power House Elect	ro-mechanical (equipment installation	Actual (Previous)  design completed will	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam	End Target
Date ▶Power House Elect Value	ro-mechanical (equipment installation Baseline	Actual (Previous)  design completed will synchronised with completion of dam and	Actual (Current)  Design completed; installation will be synchronized with the	End Target  Equipment for all for
Date  ▶Power House Elect  Value  Date	ro-mechanical (equipment installation Baseline No equipment delivered	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.	End Target  Equipment for all for units ready
Date  ▶ Power House Elect  Value  Date	Pro-mechanical (equipment installation  Baseline  No equipment delivered  02-Nov-2009	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.	End Target  Equipment for all for units ready
Date  ▶ Power House Elect  Value  Date  ▶ Financial disbursen	Baseline  No equipment delivered  02-Nov-2009  nent (% of projected cost to completic	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021  on) (Percentage, Custom)	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.  23-Mar-2021	End Target  Equipment for all for units ready  30-Jun-2022
Date  ▶ Power House Elect  Value  Date  ▶ Financial disbursen  Value	Pro-mechanical (equipment installation  Baseline  No equipment delivered  02-Nov-2009  nent (% of projected cost to completic  Baseline	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021  on) (Percentage, Custom)  Actual (Previous)	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.  23-Mar-2021  Actual (Current)	End Target  Equipment for all for units ready  30-Jun-2022  End Target
Date  ▶ Power House Elect  Value  Date  ▶ Financial disbursen  Value  Date	Pro-mechanical (equipment installation  Baseline  No equipment delivered  02-Nov-2009  nent (% of projected cost to completic  Baseline  0.00	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021  on) (Percentage, Custom)  Actual (Previous)  21.00  23-Mar-2021	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.  23-Mar-2021  Actual (Current)  35.00	End Target  Equipment for all for units ready  30-Jun-2022  End Target  95.00
Date  ▶ Power House Elect  Value  Date  ▶ Financial disbursen  Value  Date	Pro-mechanical (equipment installation  Baseline  No equipment delivered  02-Nov-2009  nent (% of projected cost to completic  Baseline  0.00  02-Nov-2009	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021  on) (Percentage, Custom)  Actual (Previous)  21.00  23-Mar-2021	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.  23-Mar-2021  Actual (Current)  35.00	End Target  Equipment for all for units ready  30-Jun-2022  End Target  95.00
Power House Elect  Value  Date  Financial disbursen  Value  Date	Pro-mechanical (equipment installation Baseline  No equipment delivered 02-Nov-2009  ment (% of projected cost to completic Baseline 0.00 02-Nov-2009  In physical contingency allowance (Texas and provided to the completic state).	Actual (Previous)  design completed will synchronised with completion of dam and Power House  23-Mar-2021  on) (Percentage, Custom)  Actual (Previous)  21.00  23-Mar-2021	Actual (Current)  Design completed; installation will be synchronized with the completion of the dam and powerhouse.  23-Mar-2021  Actual (Current)  35.00  23-Mar-2021	End Target  Equipment for all for units ready  30-Jun-2022  End Target  95.00  30-Jun-2022

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► Environmental Management Plan (EMP) implementation (Text, Custom)								
	Baseline Actual (Previous) Actual (Current) End Target							
Value	0.00	In progress	In progress	Completed.				
Date	02-Nov-2009	23-Mar-2021	23-Mar-2021	30-Jun-2022				
□Number of environmental staff posted at site (Number, Custom Supplement)  Baseline Actual (Previous) Actual (Current) End Target								
- Number of environ	,	, ,						
	Baseline	Actual (Previous)	,					
Value	,	, ,	Actual (Current) 3.00	End Target 3.00				
Value	Baseline	Actual (Previous) 3.00	3.00					
Value	Baseline 1.00	Actual (Previous) 3.00	3.00					

# **Performance-Based Conditions**

# **Data on Financial Performance**

# Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P096124	IBRD-80780	Effective	USD	648.00	448.00	200.00	157.75	290.25	35%
P096124	TF-58016	Closed	USD	1.00	0.99	0.01	0.99	0.00	100%

# Key Dates (by Ioan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P096124	IBRD-80780	Effective	30-Jun-2011	10-Aug-2011	07-Nov-2011	31-Dec-2017	30-Jun-2022
P096124	TF-58016	Closed	24-Apr-2007	24-Apr-2007	24-Apr-2007	17-Mar-2009	31-Mar-2010

# **Cumulative Disbursements**

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# **Restructuring History**

Level 2 Approved on 21-Dec-2017, Level 2 Approved on 24-Jun-2019, Level 2 Approved on 28-Jun-2019, Level 2 Approved on 20-Aug-2019, Level 2 Approved on 27-Dec-2019, Level 2 Approved on 29-Jan-2020, Level 2 Approved on 25-Jun-2021

# Related Project(s)

There are no related projects.

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