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Implementation Status & Results
India
Rampur Hydropower Project (P095114)

Operation Name:	Rampur Hydropower Project (P095114)	Project Stage:	Implementation	Seq.No:	12	Status:	ARCHIVED	Archive Date:	20-Mar-2013
		Country:	India			Approval FY:	2008		
Product Line:	IBRD/IDA	Region:	SOUTH ASIA			Lending Instrument:	Specific Investment Loan		
Implementing Agency(ies):									

Key Dates

Board Approval Date	13-Sep-2007	Original Closing Date	31-Mar-2013	Planned Mid Term Review Date	31-Mar-2010	Last Archived ISR Date	12-Dec-2012
Effectiveness Date	14-Apr-2008	Revised Closing Date	31-Dec-2014	Actual Mid Term Review Date	14-Nov-2010		

Project Development Objectives

Rampur Hydropower Project (P095114)

Project Development Objective (from Project Appraisal Document)

The development objective of the project is (a) to improve the reliability of India's Northern Electricity Grid through the addition of renewable, low carbon energy from the Rampur hydropower project; and (b) to improve the effectiveness of Satluj Jal Vidyut Nigam Limited (SJVN) with respect to the preparation and safe implementation of economically, environmentally, and socially sustainable hydropower projects.

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

○ Yes ◉ No

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Component(s)

Component Name	Component Cost
Construction of the 412 MW Rampur run-of-the-river hydroelectric scheme	395.00
Investment support to implement measures for ensuring higher availability of the existing upstream Nathpa Jhakri hydropower project	0.00
Technical assistance for institutional reform and capacity building	5.00

Overall Ratings

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

Implementation Status Overview

The tunnel excavation is now complete. About 13.64 km (or 90% of total length) of benching, 9.66 km (or 64% of total length) of concrete lining and 7.14 km (or 47% of total length) of invert lining of the Head Race Tunnel (HRT) has been completed. The completion of benching is delayed to February 2013, and completion of invert lining is delayed further to mid

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May 2013.

SJVNL and its contractors have taken steps to address most of the issues identified in the agreed action plan to address the identified gaps on labor camp management, muck management and safety aspects. In the area of safety management, SJVNL continues to undertake additional efforts to improve worker safety conditions, including increased monitoring and training/ awareness sessions. The land acquisition and resettlement implementation is fully completed. However, the implementation of community development works are slowed down due to the code of conduct of recently held assembly elections. On the Local Area Development fund, out of the Rs. 52.5 million deposited by SJVNL with the District Administration, so far 84 works with a value of Rs. 35.14 million (67%) have been either completed or in progress. Additional works worth of Rs. 11.60 million were approved by Local Area Development Authority in July 2012. With respect to payment of compensation for house damages, 66% of the assessed amount of Rs. 57.35 million has been paid to the people by the District Administration so far. With respect to crop damages, out, 61% of the Rs. 70.34 million assessed by the District Administration has been deposited by SJVNL with them (release of balance amount is awaiting clarifications from the district administration). Out of the amount deposited by SJVNL, 60% has been paid to the affected people by the District Administration. The process for speeding up the implementation of the above activities have been again brought to the attention of the local administration and the new State Government for corrective action on priority basis.

Locations

Country	First Administrative Division	Location	Planned	Actual
India	State of Himachal Pradesh	Shimla		
India	State of Himachal Pradesh	Rampur		✓
India	State of Himachal Pradesh	Rampur		
India	State of Himachal Pradesh	Kulu		

Results

Project Development Objective Indicators

Indicator Name	Core	Unit of Measure		Baseline	Current	End Target
Improved reliability of India's Northern Electricity Grid - Increased power availability to Northern region off-takers (GWh equivalent per annum)	☐	Text	Value	0	0	1770
			Date	31-Oct-2007	31-Jan-2013	31-Dec-2014
			Comments		Increased power availability to Northern region off-takers (GWh equivalent per annum)	
Improved reliability of India's Northern Electricity Grid - % of time frequency in the Northern Electricity Grid is in the operating band of Indian Electricity Grid Code	☐	Text	Value	78.83%	89.71%	90.30%
			Date	31-Mar-2007	31-Mar-2012	31-Dec-2014
			Comments	Figure for the period April 2006 to March 2007	The figure is for Northern/ Western/ Eastern/ North Eastern Grid for the period April 2011 to March 2012. Till April 2010, the IEGCband was : 49.2 to 50.3 Hz and	

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					subsequently it was narrowed to 49.5 to 50.2 Hz	
Improved reliability of India's Northern Electricity Grid - Reduction in the number of days of outage of NJHP in wet season (based on 3 year rolling average)	☐	Text	Value	32	10	24
			Date	31-Mar-2007	31-Mar-2012	31-Dec-2014
			Comments	Figure indicates the 3 year rolling average of the number of days of outage of NJHP. Baseline figure is not a 3 year rolling average.	NJHP was shut down due to high silt content in river for 4.5 days in FY2012.	
Construction of 412 MW Rampur run-of-river hydroelectric scheme - per cent completion of Head Race Tunnel excavation works	☐	Percentage	Value	0.00	100.00	100.00
			Date	31-Mar-2007	31-Jan-2013	31-Mar-2013
			Comments			

Intermediate Results Indicators

Indicator Name	Core	Unit of Measure		Baseline	Current	End Target
Construction of the 412 MW Rampur run-of-river hydroelectric scheme - % completion of Power House excavation works	☐	Text	Value	0%	93.16%	100%
			Date	31-Mar-2007	15-Jan-2013	31-Dec-2014
			Comments		Overall quantity to be excavated has increased due to design changes	
Resettlement and Rehabilitation - payment of compensation and construction grants	☐	Text	Value	0%	99.5%	100%
			Date	31-Mar-2007	15-Dec-2012	31-Dec-2014
			Comments		99.5% of families out of the 208 families have received full compensation and rehabilitation benefits	
Generation Capacity of Hydropower constructed or rehabilitated under the project	☒	Megawatt	Value	0.00	0.00	412.00
			Date	13-Sep-2007	31-Jan-2013	31-Dec-2014
			Comments			Generation capacity of Hydropower constructed under the project
Generation Capacity of Hydropower constructed under the project	☒	Megawatt Sub Type Breakdown	Value	0.00	0.00	412.00
			Date	13-Sep-2007	31-Jan-2013	31-Dec-2014
			Comments			

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Data on Financial Performance (as of 04-Dec-2012)

Financial Agreement(s) Key Dates

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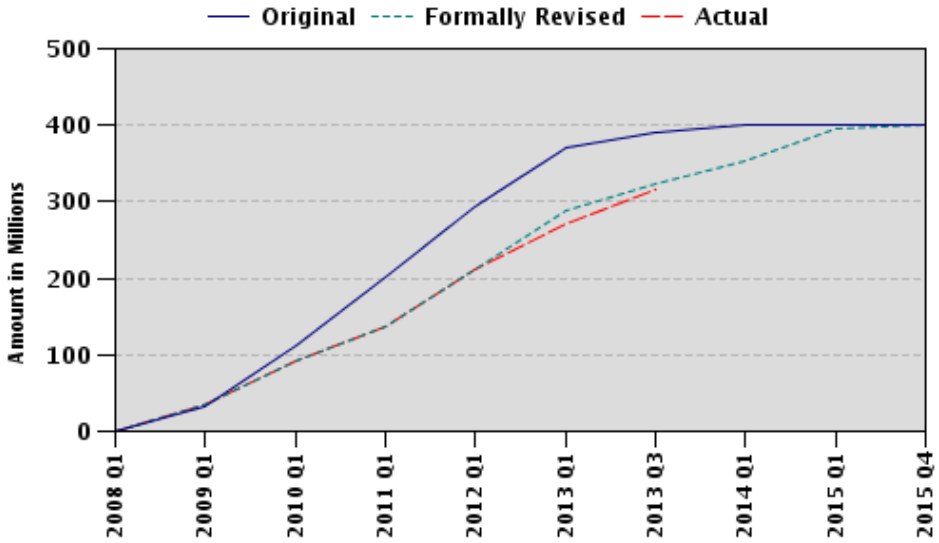
Project	Ln/Cr/Tf	Status	Approval Date	Signing Date	Effectiveness Date	Original Closing Date	Revised Closing Date
P095114	IBRD-48700	Effective	13-Sep-2007	15-Jan-2008	14-Apr-2008	31-Mar-2013	31-Dec-2014

Disbursements (in Millions)

Project	Ln/Cr/Tf	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P095114	IBRD-48700	Effective	USD	400.00	400.00	0.00	317.89	82.11	79.00

Disbursement Graph



Key Decisions Regarding Implementation

Full Project Commissioning is likely to be delayed with supply of Electro-Mechanical equipment on the critical path. Based on the current schedule, SJVNL is expected to commission the first two units of the plant by September 2013 and full plant only by December 2013 (against the target of full commissioning by September 2013).

As a result of the progress SJVNL has made on the implementation of the Environment Management Plan (EMP), the project ratings on the Implementation Progress is being revised upwards. SJVNL and its contractors need to continue to maintain necessary close oversight so that (i) the EMP implementation and management of the construction site is continued in line with agreed action plan; and (ii) the physical progress, particularly at power house and the electro mechanical supplies, to avoid any further slippages. The State Government has been again requested to facilitate the prompt implementation of the remaining works on the community welfare related activities and the release of the balance deposited money to the actual beneficiaries.

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Restructuring History

Level two Approved on 14-Oct-2011

Related Projects

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