



Operation Number: **BO-L1043**  
Year- PMR Cycle: **First period Jan-Jun 2015**  
Last Update: **10/4/2015**  
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **10/05/2015**  
Division Chief validation date: **11/04/2015**  
Country Representative validation date: **11/05/2015**

Inter-American Development Bank - IDB  
Office of Strategic Planning and Development Effectiveness

Operation Profile

Basic Data

Operation name:	Misicuni Renewable Energy Hydroelectric Project	Loan Number:	2238/BL-BO
Executing Agency (EA):	EMPRESA NACIONAL DE ELECTRICIDAD		
Team Leader:	Alarcon Rodriguez,Arturo Daniel	Sector/Subsector:	NEW HYDROPOWER PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans are closed).
Lending Instrument:	Investment Loan	Country:	BOLIVIA
Borrower:	REPUBLICA DE BOLIVIA	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BO-L1043	\$101,000,000.00	\$101,000,000.00	\$13,100,000.00	\$0.00	\$114,100,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BO-L1043	\$101,000,000.00	\$71,768,069.48	71.06%	\$29,231,930.52

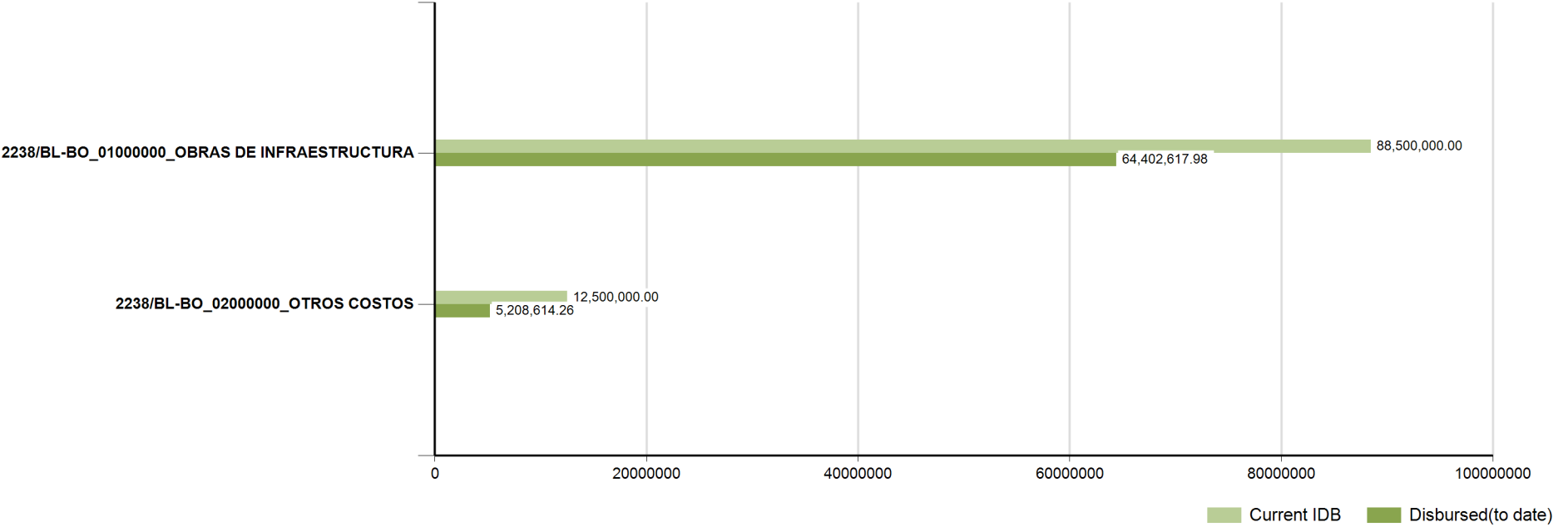
Environmental and Social Safeguards

Main Operation	
Impacts Category:	A
Safeguard Performance Rating:	Satisfactory
Safeguard Performance Rating - Rationale:	Project in advance state of construction and has shown significant improvements in E&S management

Reformulation Information

Main Operation	
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

Expense Categories by Loan Contract (cumulative values)



Results Matrix

Impacts

No information related to this operation.

Outcomes

Outcome:	1 Capacidad de generación de energía eléctrica incrementada.											
Observation:												
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		2016		EOP	
1.1 Generación eléctrica por año.		GWh/año	0.00	2009	Estadísticas anuales del Comité Nacional de Despacho de Carga (CNDC).		P				217.20	
							P(a)	0.00	217.20		217.20	
							A					
Outcome:	2 Acceso a agua potable incrementado.											
Observation:												
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		2016		EOP	
2.1 Volumen regulado para riego y agua potable.		m³/día	12,960.00	2009	Estadísticas de la Empresa Nacional de Electricidad y Misicuni.		P				264,600.00	
							P(a)	0.00	264,600.00		264,600.00	
							A					
2.2 Valor de las tierras beneficiadas.		US\$/m2	5.00	2009	Encuesta Empresa Nacional de Electricidad - ENDE en el mercado inmobiliario		P				10.00	
							P(a)	0.00	10.00		10.00	
							A					

 RF - RF Indicator     SI - Sector Indicator     CI - Country Indicator     PG - Pro-Gender     PE - Pro-Ethnicity

Outputs: Annual Physical and Financial Progress

Obras de infraestructura		Physical Progress			Financial Progress		
Outputs	Unit of Measure	2015		EOP	2015		EOP
Casa de máquinas construida y equipada.	Casa de Maquinas	P		1.00	P		33,632,970.00
		P(a)	0.25	1.00	P(a)	8,024,050.14	35,972,978.14
		A	0.15	0.40	A	4,359,239.74	15,771,102.29
Obras de extensión de túnel, chimenea	Obras	P		3.00	P		11,439,000.00

de equilibrio y blindaje construidas.		P(a)			P(a)		
		A			A		
Excavaci3n y blindaje del tunel concluidos	metros	P		0.00	P		0.00
		P(a)	0.00	706.00	P(a)	271,160.36	4,615,411.32
		A	0.00	706.00	A	220,613.89	4,564,864.85
Tubería de presi3n y válvula de seguridad construida.	Tuberia	P		1.00	P		28,939,840.00
		P(a)			P(a)		0.00
		A			A		
Válvula de seguridad instalada y funcionando	Valvula de seguridad	P		0.00	P		0.00
		P(a)	0.80	1.00	P(a)	2,156,367.18	5,426,983.76
		A	0.05	0.25	A	898,891.61	2,232,447.23
Chimenea de equilibrio concluida	metros	P		0.00	P		0.00
		P(a)	56.00	150.00	P(a)	1,855,453.93	6,866,299.22
		A	24.00	118.00	A	1,368,448.52	5,954,990.20
Tubería forzada instalada	metros	P		0.00	P		0.00
		P(a)	3,138.00	4,938.00	P(a)	5,048,104.38	39,189,270.56
		A	750.00	1,274.00	A	1,105,666.76	22,084,427.02
Embalse de compensaci3n construido.	Embalse	P		1.00	P		7,142,960.00
		P(a)	0.25	1.00	P(a)	824,890.14	9,415,068.32
		A	0.05	0.80	A	271,087.71	6,452,236.48
Subestaci3n construida y puesta en marcha	subestacion	P		1.00	P		5,019,480.00
		P(a)	0.70	1.00	P(a)	955,219.19	6,021,757.00
		A	0.10	0.40	A	34,678.05	4,619,409.98
Lineas de transmision construidas.	Kil3metros	P		18.00	P		6,969,010.00
		P(a)	13.00	13.00	P(a)	3,719,735.00	3,719,735.00
		A	0.00	0.00	A	35,183.56	35,183.56
Caminos de acceso contruidos.	Kil3metro	P		15.00	P		1,756,750.00
		P(a)	0.00	17.25	P(a)	0.00	772,909.00
		A	0.00	17.25	A	0.00	772,909.00

Other Cost		2015	Cost
Acciones de mitigaci3n de impactos ambientales y sociales realizadas.	P		\$3,200,000.00
	P(a)	\$0.00	\$1,476,342.69
	A	\$14,399.57	\$1,490,742.26
Auditorias	P	\$50,000.00	\$200,000.00
	P(a)	\$20,180.85	\$75,420.79
	A	\$20,180.85	\$60,420.79
Administracion y gestion	P	\$662,446.00	\$3,699,996.00
	P(a)	\$130,000.00	\$1,718,083.39
	A	\$6,559.77	\$1,504,643.16
Impuesto a las importaciones y gastos arancelarios	P		\$0.00
	P(a)	\$1,000,000.00	\$3,500,000.00
	A	\$0.00	\$0.00
Supervisi3n del Proyecto	P		\$0.00
	P(a)	\$1,726,629.39	\$6,198,928.81
	A	\$160,201.21	\$3,832,500.63
Total Cost		2015	Total Cost
	P	\$712,446.00	\$102,000,006.00
	P(a)	\$25,731,790.56	\$107,732,548.68
	A	\$8,495,151.24	\$69,375,877.45

Changes to the Matrix

No information related to this operation.