



Operation Number: **BO-L1043**
Year- PMR Cycle: **Second period Jan-Dec 2015**
Last Update: **3/31/2016**
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **03/29/2016**
Division Chief validation date: **03/30/2016**
Country Representative validation date: **03/30/2016**

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	\$89,585,326.38	88.70%	\$11,414,673.62

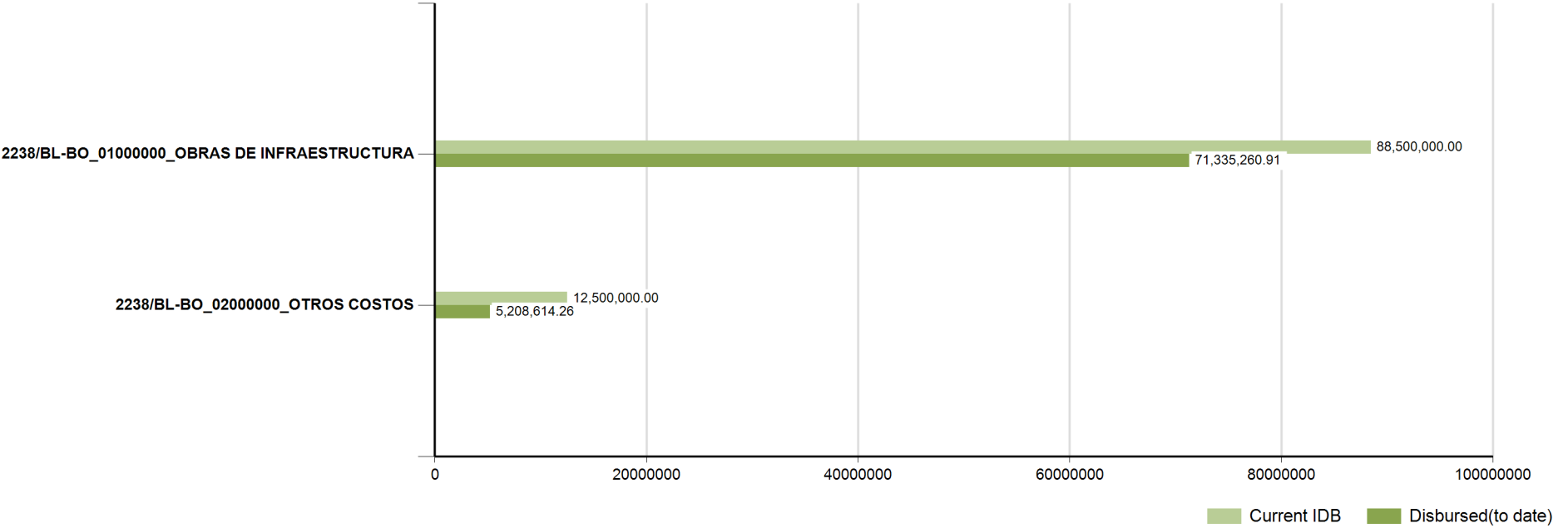
Environmental and Social Safeguards

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		2017		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		2017		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	37,499,999.99
		A	0.40	0.65	A	6,853,463.74	18,265,326.29
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		
Excavaciòn y blindaje del tunel concluidos	metros	P		0.00	P		0.00
		P(a)	0.00	706.00	P(a)	271,160.36	6,115,000.00
		A	0.00	706.00	A	220,613.89	4,564,864.85
Tubería de presiòn 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	6,243,999.99
		A	0.05	0.25	A	2,087,556.94	3,421,112.56
Chimenea de equilibrio concluida	metros	P		0.00	P		0.00
		P(a)	56.00	150.00	P(a)	1,855,453.93	7,699,999.99
		A	48.00	142.00	A	3,037,686.49	7,624,228.17
Tubería forzada instalada	metros	P		0.00	P		0.00
		P(a)	3,138.00	4,938.00	P(a)	5,048,104.38	39,545,999.70
		A	1,914.00	2,438.00	A	5,662,252.51	26,641,012.77
Embalse de compensaciòn construido.	Embalse	P		1.00	P		7,142,960.00
		P(a)	0.25	1.00	P(a)	824,890.14	10,000,000.00
		A	0.15	0.90	A	813,592.45	6,994,741.22
Subestaciòn 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	8,227,090.82
		A	0.48	0.78	A	766,525.50	5,351,257.43
Lineas de transmision construidas.	Kilómetros	P		18.00	P		6,969,010.00
		P(a)	13.00	13.00	P(a)	3,719,735.00	4,000,000.00
		A	0.00	0.00	A	560,013.55	560,013.55
Caminos de acceso contruidos.	Kilómetro	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 mitigaciòn de impactos ambientales y sociales realizadas.	P		\$3,200,000.00
	P(a)	\$0.00	\$1,800,000.00
	A	\$14,796.32	\$1,491,139.01
Auditorias	P	\$50,000.00	\$200,000.00
	P(a)	\$20,180.85	\$110,000.00
	A	\$20,180.85	\$60,420.79
Administracion y gestion	P	\$662,446.00	\$3,699,996.00
	P(a)	\$130,000.00	\$1,860,818.99
	A	\$166,225.80	\$1,664,309.19
Impuesto a las importaciones y gastos arancelarios	P		\$0.00
	P(a)	\$1,000,000.00	\$5,700,000.00
	A	\$18,959.04	\$18,959.04
Supervisiòn del Proyecto	P		\$0.00
	P(a)	\$1,726,629.39	\$7,460,000.14
	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	\$137,035,818.62
	A	\$20,382,068.29	\$81,262,794.50

Changes to the Matrix

No information related to this operation.