



Operation Number: **BO-L1043**  
Year- PMR Cycle: **First period Jan-Jun 2016**  
Last Update: **10/3/2016**  
PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/16/2016**  
Division Chief validation date:  
Country Representative validation date:

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:	Ballon Lopez,Sergio Enrique	Sector/Subsector:	NEW HYDROPOWER PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations 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		\$114,100,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BO-L1043	\$101,000,000.00	\$99,585,326.38	98.60%	\$1,414,673.62

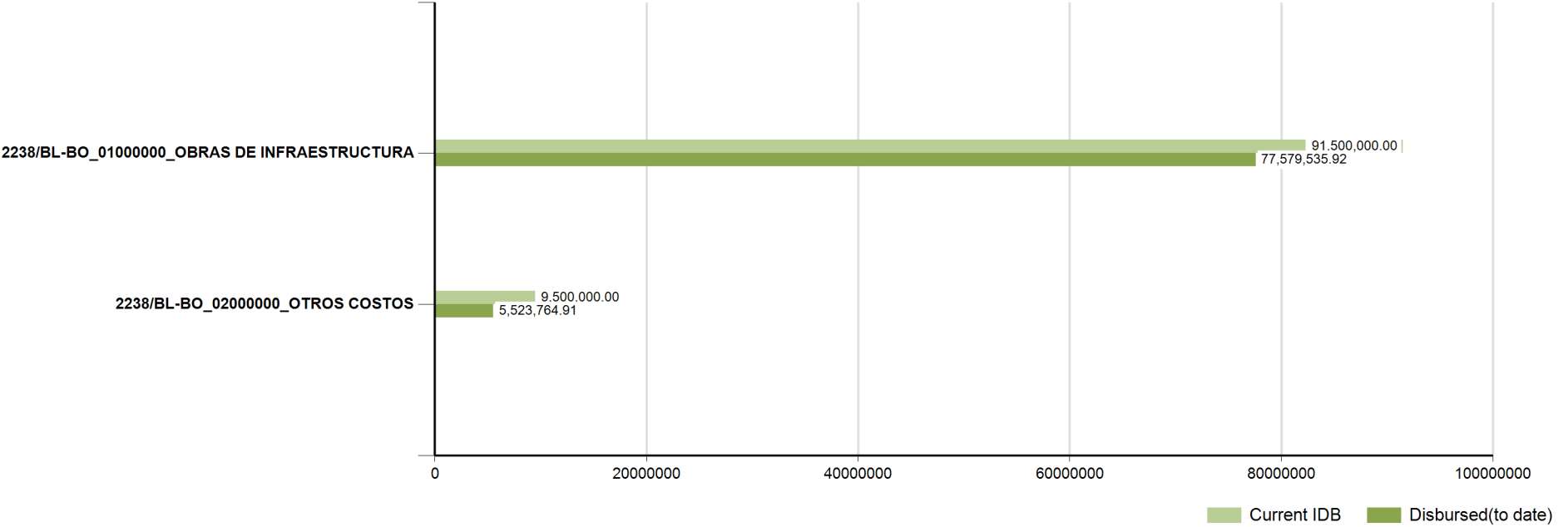
Environmental and Social Safeguards

Main Operation	
Impacts Category:	A
Safeguard Performance Rating:	Partially Satisfactory
Safeguard Performance Rating - Rationale:	Project has experienced significant delays and continues to struggle with downstream turbidity issues. Transmission line construction is complete and the restoration process has been a success. Multiple livelihood restoration projects are continuing to be successful.

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		0.00		
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 Misioni.		P			264,600.00	
							P(a)	0.00	264,600.00		264,600.00
							A		0.00		
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		0.00		

-  RF - Contribution
-  RF - Alignment
-  RF - Strategic Alignment
-  RF - Strategic Alignment during Execution
-  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	2016		EOP	2016		EOP
Casa de máquinas construida y	Casa de Maquinas	P		1.00	P		33,632,970.00

equipada.		P(a)	0.15	1.00	P(a)	10,326,095.81	37,499,999.99
		A	0.03	0.68	A	1,815,693.40	20,081,019.69
Obras de extensión de túnel, chimenea de equilibrio y blindaje construidas.	Obras	P		3.00	P		11,439,000.00
		P(a)			P(a)		
		A			A		
Excavación y blindaje del tunel concluidos	metros	P		0.00	P		0.00
		P(a)		706.00	P(a)	1,550,135.15	6,115,000.00
		A		706.00	A	0.00	4,564,864.85
Tubería de presión 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)	0.75	1.00	P(a)	2,822,887.43	6,243,999.99
		A	0.50	0.75	A	495,808.22	3,916,920.78
Chimenea de equilibrio concluida	metros	P		0.00	P		0.00
		P(a)	8.00	150.00	P(a)	75,771.82	7,699,999.99
		A	8.00	150.00	A	3,198,220.89	10,822,449.06
Tubería forzada instalada	metros	P		0.00	P		0.00
		P(a)	2,500.00	4,938.00	P(a)	7,045,785.65	39,545,999.70
		A	956.00	3,394.00	A	2,062,934.60	28,703,947.37
Embalse de compensación construido.	Embalse	P		1.00	P		7,142,960.00
		P(a)	0.10	1.00	P(a)	3,005,258.78	10,000,000.00
		A	0.01	0.91	A	700,177.00	7,694,918.22
Subestación construida y puesta en marcha	subestacion	P		1.00	P		5,019,480.00
		P(a)	0.22	1.00	P(a)	1,407,098.30	8,227,090.82
		A	0.05	0.83	A	1,183,235.05	6,534,492.48
Lineas de transmision construidas.	Electricity transmission and distribution lines (km)	P		18.00	P		6,969,010.00
		P(a)	13.00	13.00	P(a)	3,439,986.45	4,000,000.00
		A	13.00	13.00	A	2,000,189.96	2,560,203.51
Caminos de acceso contruidos.	Kilómetro	P		15.00	P		1,756,750.00
		P(a)		17.25	P(a)	0.00	772,909.00
		A		17.25	A	0.00	772,909.00

Other Cost		2016	Cost
Acciones de mitigación de impactos ambientales y sociales realizadas.	P		\$3,200,000.00
	P(a)	\$293,860.99	\$1,800,000.00
	A	\$150,852.17	\$1,641,991.18
Auditorias	P		\$200,000.00
	P(a)	\$34,579.21	\$110,000.00
	A	\$39,067.06	\$99,487.85
Administracion y gestion	P		\$3,699,996.00
	P(a)	\$130,000.00	\$1,860,818.99
	A	\$431,943.15	\$2,096,252.34
Impuesto a las importaciones y gastos arancelarios	P		\$0.00
	P(a)	\$5,681,040.96	\$5,700,000.00
	A	\$2,199,673.62	\$2,218,632.66
Supervisión del Proyecto	P		\$0.00
	P(a)	\$3,027,499.51	\$7,460,000.14
	A	\$567,062.64	\$4,399,563.27

Total Cost		2016	Total Cost
	P		\$102,000,006.00
	P(a)	\$38,840,000.06	\$137,035,818.62
	A	\$14,844,857.76	\$96,107,652.26

Changes to the Matrix

No information related to this operation.