



Operation Number: **BO-L1043**
Year- PMR Cycle: **Second period Jan-Dec 2014**
Last Update: **4/1/2015**
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **04/14/2015**
Division Chief validation date: **05/04/2015**
Country Representative validation date: **05/08/2015**

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	\$68,780,069.72	68.10%	\$32,219,930.28

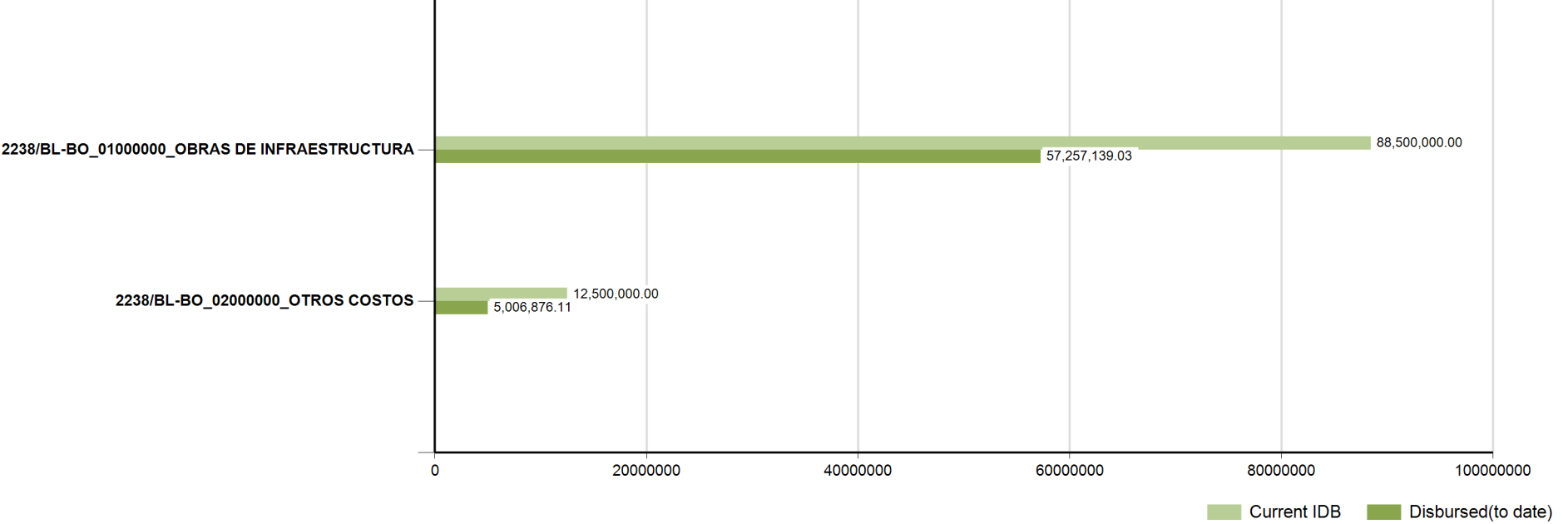
Environmental and Social Safeguards

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	
							P					
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	
							P					
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	2014		EOP	2014		EOP
Casa de máquinas construida y equipada.	Casa de Maquinas	P	1.00	1.00	P	8,211,120.00	33,632,970.00
		P(a)	0.00	1.00	P(a)	10,840,428.24	35,972,978.14
		A	0.25	0.25	A	8,263,371.51	11,411,862.55
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)	293.00	706.00	P(a)	1,652,154.65	4,615,411.32
		A	293.00	706.00	A	2,196,763.96	4,344,250.96
Tubería de presión y válvula de seguridad construida.	Tuberia	P		1.00	P	4,161,170.00	28,939,840.00
		P(a)			P(a)	0.00	0.00
		A			A		
Válvula de seguridad instalada y funcionando	Valvula de seguridad	P		0.00	P		0.00
		P(a)	0.00	1.00	P(a)	1,766,287.14	5,426,983.76
		A	0.20	0.20	A	1,041,662.49	1,333,555.62
Chimenea de equilibrio concluida	metros	P		0.00	P		0.00
		P(a)	147.00	150.00	P(a)	1,384,296.26	6,866,299.22
		A	91.00	94.00	A	505,474.00	4,586,541.68
Tubería forzada instalada	metros	P		0.00	P		0.00
		P(a)	1,300.00	4,938.00	P(a)	5,008,126.82	39,189,270.56
		A	524.00	524.00	A	2,775,341.76	20,978,760.26
Embalse de compensación construido.	Embalse	P		1.00	P	496,480.00	7,142,960.00
		P(a)	0.00	1.00	P(a)	3,584,203.88	9,415,068.32
		A	0.75	0.75	A	1,914,066.59	6,181,148.77
Subestación construida y puesta en marcha	subestacion	P		1.00	P	739,870.00	5,019,480.00
		P(a)	0.00	1.00	P(a)	1,676,557.74	6,021,757.00
		A	0.30	0.30	A	4,243,443.68	4,584,731.93
Lineas de transmision construidas.	Kilómetros	P	9.00	18.00	P	984,760.00	6,969,010.00
		P(a)	0.00	13.00	P(a)	560,000.00	3,719,735.00
		A	0.00	0.00	A	0.00	0.00
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		17.25	A	0.00	772,909.00

Other Cost		2014	Cost
Acciones de mitigación de impactos ambientales y sociales realizadas.	P	\$200,000.00	\$3,200,000.00
	P(a)	\$56,000.00	\$1,476,342.69
	A	\$133,020.33	\$1,476,342.69
Auditorias	P	\$50,000.00	\$200,000.00
	P(a)	\$12,000.00	\$75,420.79
	A	\$14,465.01	\$40,239.94
Administracion y gestion	P	\$500,000.00	\$3,699,996.00
	P(a)	\$20,800.00	\$1,718,083.39
	A	\$125,604.00	\$1,498,083.39
Impuesto a las importaciones y gastos arancelarios	P		\$0.00
	P(a)	\$0.00	\$3,500,000.00
	A	\$0.00	\$0.00
Supervisión del Proyecto	P		\$0.00
	P(a)	\$1,051,153.43	\$6,198,928.81
	A	\$2,329,946.37	\$3,672,299.42
Total Cost		2014	Total Cost
	P	\$15,343,400.00	\$102,000,006.00
	P(a)	\$27,612,008.16	\$99,237,397.44
	A	\$23,543,159.70	\$60,880,726.21

Changes to the Matrix

No information related to this operation.