

# HIDALGO e HIDALGO S. A.

<b>DIRECCION EN QUITO</b> Av. Galo Plaza Lasso N51-127 (10 de Agosto N° 8975) y Algarrobos Teléfonos: 240-8038 – 245-3092 Fax: 240-0541 E-mail: <a href="mailto:hidalgo@hehconstructores.com.ec">hidalgo@hehconstructores.com.ec</a>	<b>DIRECCION EN GUAYAQUIL</b> Km. 6½ vía a la costa Teléfonos: 235-2300 – 235-3785 Fax: 235-3985 E-mail: <a href="mailto:hehquuil@gye.satnet.net">hehquuil@gye.satnet.net</a>	<b>DIRECCION EN CUENCA</b> Km. 10½ Autopista Cuenca-Azogues (Chaulabamba) Teléfono: 875-288 Fax: 875-490
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**Web site: [www.hehconstructores.com](http://www.hehconstructores.com)**

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## Sibimbe Hydroelectric Project Emission Reductions Monitoring Report

**SIBIMBE HYDROELECTRIC PROJECT  
REF. 0142**

Monitoring Period: 01 March 2008 – 28 February 2009

Version 01  
April 14<sup>th</sup>, 2009

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## A. GENERAL PROJECT INFORMATION

### A.1. Title of the project activity:

Sibimbe Hydroelectric Project (“the project”).

### A.2. Summary

Project name	Sibimbe Hydroelectric Project
Project Description	<p>The project is a hydropower plant built on the western sloped of the Andes on the Sibimbe river with an installed capacity of 15.372 MW and with estimated annual generation of 89,000 MWh/year.</p> <p>The objectives of the Sibimbe Hydroelectric Plant are to generate renewable electricity using hydroelectric resources and to sell the generated output to Ecuador’s Wholesale Power Market (WPM, or MEM in Spanish) through either spot market transactions or through power purchase agreements (PPA’s) using the Transelectric National Grid Transmission Authority to dispatch the energy. The Plant’s activity has resulted in emission reductions from the displacement of a combination of fossil fuel based capacity that otherwise be generated and dispatched in Ecuador.</p>
Installed capacity	15.372 MW
Commissioned Date	May 12 <sup>th</sup> , 2006
Starting Date of the Crediting Period	Feb 4rd, 2006 (renewable crediting period of 7 years).
Project sponsor	Hidalgo e Hidalgo S.A. Owner / Operator
Project participants	Hidalgo e Hidalgo S.A. IBRD as a trustee of the Netherlands Clean Development Facility.
Responsible for the MR	Andrea Hidalgo in representation of Hidalgo e Hidalgo S.A. 
Technology	<p>The hydropower plant consists of a diversion dam intake roller bucket type on the Sibimbe River at an elevation 251 m. above sea level. The intake and water conduction facility is made through an open and partly closed channel of about 2.5 Km long concrete structure. The water is stored in a 220,000 m<sup>3</sup> reservoir for hourly regulation. An automatic intake structure operates the flow from the reservoir to a pressurized penstock that discharges flow into the powerhouse, which is equipped with two horizontal Francis turbines.</p> <p>The project is equipped with : Two (02) German WKV Francis Turbines of 7.686 capacity each</p>

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	one; Two (02) German AVK Generators; A 15 Km. 69 kV Transmission Line
Project Location	South America / Ecuador Los Rios Province, near the city of Ventanas.
Energy Supply	Renewable Energy
Greenhouse Gases Targeted	CO 2

## A.2 Performance of the Project:

On this third year of the monitoring period there have been no changes or modifications from the original layout. The project original planned generation and load factor were 95,000 MWh and 72%, respectively. However, the actual generation on this year was 84, 210 MWh, which gives a load factor of 64%. The decrease of production has direct relation with the weather of this year, that had a very dry summer and an extreme rainy season that forced to stop the hydropower plant twice for many days, and also a Net Head lower than the one expected on the designs (141 m) is achieved when both units are operating at the same time, due to hydraulic losses on the pipeline, this causes that the Actual Maximum Net Output on Generation Borders is 14.2 MW instead of the 15.372 MW, and this alone causes a 8% decrease in the expected generation.

During the months of August through November, the project had less water available from the river due to the dry season which led to operate less than the expected regulated hours per day.

## A.3. Calibration to the Meters.

The project uses two ION 8600 Power Meters, with an accuracy of 0.2 output, that guarantees a precision reading and stores data for future references (as required by Ecuadorian regulation). Both of these Meters, at the substation of Ventanas, were initially adjusted and calibrated beforehand, by CENACE certified personnel (the official Grid Market Controller, see Official Certification) and are still physically sealed by them, without possibilities of modifying any readings from that initial Certification Date.

During this year the main meter was calibrated on the 31<sup>st</sup> of March, 2008 and the backup meter on April 3<sup>rd</sup>, 2008 (Please see annex); neither of the two meters had to be adjusted during this calibration.

## B. APPLICATION OF BASELINE METHODOLOGY

### B.1 Baseline Emission Factor

The project falls into Sectoral Scope: Renewable Energy, run-of-river, hydropower

Following the approved methodology: “Consolidated baseline methodology for grid-connected electricity generation from renewable resources” UNFCCC/CCNUCC; AMC 0002 / Version 3; Sectoral Scope 1; 30 Sep 2005, the ex-ante baseline emission factor (EF<sub>y</sub>) needs to be multiplied by the project’s net electricity.

The ex-ante baseline emission factor established in the registered PDD is 0.6165 tCO<sub>2</sub> / MWh.

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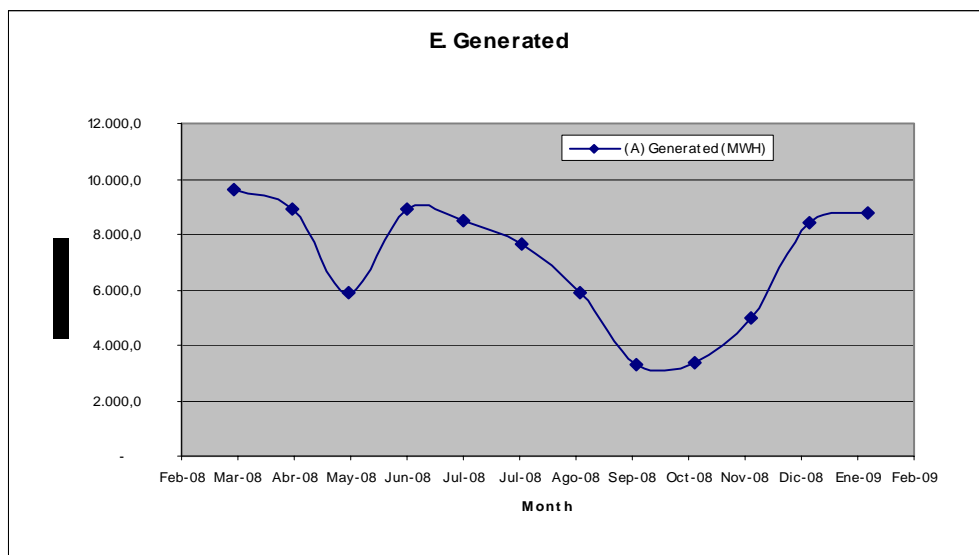
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 Web site: [www.hehconstructores.com](http://www.hehconstructores.com)

## B.2 Electricity Production

As per CENACE Grid Authority, the project monthly generation is as shown in the table bellow:

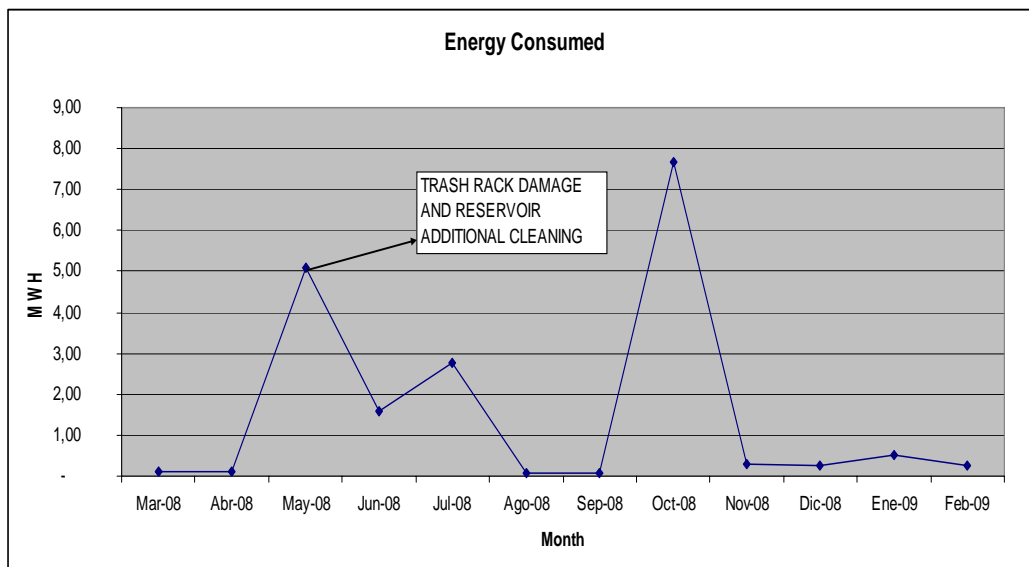
MONTH	MWh
Mar-08	9,580.4
Abr-08	8,908.9
May-08	5,888.7
Jun-08	8,918.1
Jul-08	8,507.2
Ago-08	7,619.0
Sep-08	5,892.1
Oct-08	3,307.2
Nov-08	3,398.4
Dic-08	4,985.1
Jan-09	8,453.2
Feb-09	8,751.9
TOTAL	84,210.0

Source: CENACE.



As per the project meters, the project energy consumption when not operating:

MONTH	MWh
Mar-08	0.12
Abr-08	0.12
May-08	5.11
Jun-08	1.58
Jul-08	2.77
Ago-08	0.06
Sep-08	0.06
Oct-08	7.67
Nov-08	0.30
Dic-08	0.26
Jan-09	0.50
Feb-09	0.26
TOTAL	18.8



Source: The project meters (Please note that the energy consumed by the project is not yet released by CENACE as of today but it will be incorporated to the MR when that occur).

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The table bellow show the project's net electricity generation:

MONTH	(A) Generated (MWH)	(B) Consumption (MWH)	A –B (MWH)
Mar-08	9,580.4	0.12	9,580.2
Abr-08	8,908.9	0.12	8,908.8
May-08	5,888.7	5.11	5,883.6
Jun-08	8,918.1	1.58	8,916.5
Jul-08	8,507.2	2.77	8,504.4
Ago-08	7,619.0	0.06	7,618.9
Sep-08	5,892.1	0.06	5,892.1
Oct-08	3,307.2	7.67	3,299.5
Nov-08	3,398.4	0.30	3,398.1
Dic-08	4,985.1	0.26	4,984.8
Ene-09	8,453.2	0.50	8,452.6
Feb-09	8,751.9	0.26	8,751.6
<b>TOTAL</b>	<b>84,210.0</b>	<b>18.8</b>	<b>84,191.2</b>

### **B.3. Quality Control and Quality Assurance Procedures (performed by powerhouse personnel).**

All energy production readings are registered and filed daily with the two officially sealed meters and reported to CENACE, the Grid Authority that stores the data sent. A PC program ELIOP is used, called Portable Terminal Reading, (or “Terminal Portatil de Lectura”, in Spanish), to send officially all data produced.

Trained Sibimbe Personnel connects through a local phone call directly to the meter and downloads the previous day production file. This exact file is then loaded to the CENACE web page registration Tag, maximum until 9:00 am of the following day; otherwise a fine is established to the private generator if he doesn't send the data information on time. File is codified and cannot be changed or modified, otherwise the webpage does not accept its download, and so all metered data is safe proof.

Powerhouse personnel, also proceed with an independent method, they establish a daily registration inside the Powerhouse with a third meter readings. These readings are logged in and sent by Fax directly to CENACE, for cross checking. Therefore the Grid Authorities have a complete verification of all our production and registration of these values.

Another parallel control methodology that we have purchased for Hourly and Daily Production readings is through our office in Quito, with an official PC Key Stick (hard lock), that connects directly to the CENACE Access Files and all public and private generation information to the main Grid is available. Daily Reports are submitted and can be traced to verify any alterations to our Hydro Plant's results. This information is basically the same and can also be used to summarize monthly productions.

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Double-checking with receipt of sales: CENACE publishes a public file with the energy that they recognize and pay to the project and this data is the final data used to calculate ERs. CENACE's public files proving the generated energy for Sibimbe will be made available to DOE during site assessment.

## C. CALCULATION OF GHG EMISSIONS BY SOURCES

### C.1.- Values of GHG emissions by sources

It does not give rise to direct GHG emissions.

### C.2.- Estimated Leakage:

There is no leakage arising from fuel handling, either.

### C.3.- The sum of C.1 and C.2 representing the project activity emissions:

The sum is zero.

### C.4.- Estimated anthropogenic emissions by sources of greenhouse gases of the baseline:

Calculation of ERs generated by the Project using the formula: Electricity dispatched to the grid times baseline emission factor (tCO<sub>2</sub>)

### C.5.- Total Sibimbe plant CER's claimed for the current Monitoring Period

Monitoring Period actual Dates: from March 1st, 2008 to Feb. 28, 2009

The net Monitoring Period generation sums to: 84,210.0 MWh as per monthly Summaries detailed in Table 2, subtracting the Sibimbe's energy consumption when not in operation of 18.8 MWh, gives a Net Generated Energy for Sibimbe of 84,191.2 MWh, Section B2., above.

Therefore: 0.6165 KtCO<sub>2</sub>/GWh times 84,191.2 MWh equals: 51,903.87 tCO<sub>2</sub>

**Total Sibimbe plant CER's claimed for the current Monitoring Period: 51,903 ERs.**

The ERs claimed are calculated using the net Produced Energy in MWh, recognized by CENACE and published on their public files for payment, times the Emission Factor of the SNI of Sibimbe's PDD

## D. SOCIAL AND ENVIRONMENTAL ACTIVITIES

### D.1.- Social Activities Within Project's Direct Area of Influence

During this third year of operation, Sibimbe Station Personnel have continued to support local community development, specially providing machinery when emergencies occur in the towns nearby. Also, donations of gifts and candies are given to most of the school children in the nearby communities on Holiday Seasons.

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Our well established Forestry Program has kept ongoing, during the third year, 9,683 plants have been delivered and planted with local farmers, last year's trees planted have been supervised and trimmed to shape and replaced those that have died. During this third year other varieties of trees have been developed to adjust better to the needs of the communities. An engineer and a social coordinator are permanently appointed to coordinate and educate the community on this program.

Since the beginning of our operations, a valid and updated bank bond is still issued, backing up any possible accident or consequences from the hydropower plant Operations to protect any neighbor, as per Ecuadorian Laws demand it. One full payment primary school scholarships is also undertaken each year, to the best student of the Echeandia nearby town. This has also helped us to create a well established relationship with our neighbors. Materials and equipment is also given or lent to the communities.

## **D.2.- Environmental Activities and Monitoring Program**

D.2.1.- A complete study for the Otter that lives in the vicinity of the Plant is been done during this third year and expected to be finished on the fourth year, so that any kind of environmental impact on the habitat of these animals can be mitigated. This study was not required by any authority, but only due to the company's interest to better understand, and preserve this specie living in the nearby vicinity.

D.2.2.- A complete and well structured Forestry Program has been developed since the first years of the Sibimbe Plant construction. This program has grown to be a major activity and has helped us become acquainted with local farm owners and community developers. The Program included delivery of small born trees to be planted and general care for them.

D.2.3.- Along the 8.5 Kms of the Sibimbe run-of-river Station, the Forestry Program has been widely developed; during this third year one can see these trees growing over five meters high.

D.2.4.- Due to Governmental Authorities requests, an annual Monitoring Auditory and Verification Plan is being done; with an independent audit, 2008 audit was completed on February 2009 and turned in on Conelec on the 30<sup>th</sup> of March 30, 2009. The 2007 Audit was approved for the Ministry of Environment and its approbation fees paid on the 5<sup>th</sup> of January, 2009.

D.2.5.- Inside training courses to all Powerhouse Operators have been completed during this third year, special concern has been reinforced to the Monitoring Plan layouts, such as safe operations. A complete record of the 2.5 cubic meters per second Ecological Water Flow is kept and remains in the Sibimbe River.

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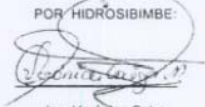
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## E. ANNEXES

### METER CALIBRATION REPORTS:



**CORPORACION**  
**cenace**  
CENTRO NACIONAL DE CONTROL DE ENERGIA

FO-DSI-CLB-01		CLB-2008-047	
<b>Calibración y Ajuste de Medidores</b>			
<b>DATOS GENERALES</b>			
Empresa Solicitante: HIDROSIBIMBE_R	Fecha: Abril 3, 2008	E-MAIL: <a href="mailto:hidrosibimbe@hotmail.com">hidrosibimbe@hotmail.com</a>	Número Telef: 091-624 413
<b>Características de los Equipos de Medición</b>			
Equipo de Medición a Calibrar:			
Marca: ICM	Tipo: 8600	# de Serie: PT-0509A 047-00	Tensión Nominal (V): 120- 277
Corriente Nominal (A): 5	Kh (Wh/Pulso): 1	Fecha Expiración de presente Calibración: abril 03 de 2010	
Equipo de Medición Patrón:			
Marca: MTE PRS200 3	# de Serie: 20694	Precisión: 0.02%	Certificaciones: ENERGIE-MESSTECHIK
<b>Tablas de Porcentajes (%) de Error Obtenidos</b>			
<b>ERROR MÁXIMO PERMITIDO EN TODAS LAS CONDICIONES: ±0.2 %</b>			
Condición: 10% I nominal			
<b>Pulsos</b>	<b>0 Grados</b>	<b>+30 Grados</b>	<b>+60 Grados</b>
1	-0.016	-0.021	-0.111
2	-0.014	-0.022	-0.111
3	-0.019	-0.025	-0.114
<b>Promedio</b>	<b>-0.016</b>	<b>-0.023</b>	<b>-0.112</b>
Condición: 50% I nominal			
<b>Pulsos</b>	<b>0 Grados</b>	<b>+30 Grados</b>	<b>+60 Grados</b>
1	-0.065	-0.068	-0.132
2	-0.068	-0.067	-0.131
3	-0.065	-0.079	-0.133
<b>Promedio</b>	<b>-0.066</b>	<b>-0.071</b>	<b>-0.132</b>
Condición: 100% I nominal			
<b>Pulsos</b>	<b>0 Grados</b>	<b>+30 Grados</b>	<b>+60 Grados</b>
1	-0.109	-0.086	-0.108
2	-0.108	-0.081	-0.090
3	-0.079	-0.081	-0.085
<b>Promedio</b>	<b>-0.099</b>	<b>-0.083</b>	<b>-0.094</b>
<b>RESULTADOS VALIDOS POR DOS AÑOS:</b>			
EL EQUIPO CALIBRADO SI ESTÁ DENTRO DEL RANGO DE PRECISIÓN			
EL EQUIPO CALIBRADO NO FUE PREVIAMENTE AJUSTADO			
<b>Aceptación de los Resultados de Calibración</b>			
POR CENACE:  Ing. Jorge Ortiz		POR HIDROSIBIMBE:  Ing. Verónica Calza	

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Calibración y Ajuste de Medidores		CLB-2008-046	
<b>DATOS GENERALES</b>			
Empresa Solicitante: HIDROSIBIMBE P	Fecha: Marzo 31, 2008	E-MAIL: <a href="mailto:hidrosibimbe@hotmail.com">hidrosibimbe@hotmail.com</a>	Número Telf: 091-624 413
<b>Características de los Equipos de Medición</b>			
Equipo de Medición a Calibrar			
Marca: ION	Tipo: 8600	# de Serie: PT-0509A 051-00	Tensión Nominal (V) 120-277
Corriente Nominal (A): 5	Kh (Wh/Pulso): 1	Fecha Expiración de presente Calibración: marzo 31 de 2010	
Equipo de Medición Patrón			
Marca: MTE PRS200.3	# de Serie: 20694	Precisión: 0.02%	Certificaciones: ENERGIE MESSTECHIK
<b>Tablas de Porcentajes (%) de Error Obtenidos</b>			
<b>ERROR MÁXIMO PERMITIDO EN TODAS LAS CONDICIONES: ±0.2 %</b>			
Condición: 10%   nominal			
Pulsos	0 Grados	+30 Grados	+60 Grados
1	0.103	0.105	0.014
2	0.100	0.100	0.010
3	0.100	0.096	0.009
Promedio	0.101	0.100	0.011
Condición: 50%   nominal			
Pulsos	0 Grados	+30 Grados	+60 Grados
1	0.036	0.029	-0.016
2	0.022	0.042	-0.015
3	0.023	0.030	-0.016
Promedio	0.027	0.034	-0.016
Condición: 100%   nominal			
Pulsos	0 Grados	+30 Grados	+60 Grados
1	0.027	0.005	-0.005
2	0.026	0.057	0.010
3	0.052	0.031	0.013
Promedio	0.035	0.031	0.005
<b>RESULTADOS VÁLIDOS POR DOS AÑOS:</b>			
EL EQUIPO CALIBRADO SI ESTÁ DENTRO DEL RANGO DE PRECISIÓN			
EL EQUIPO CALIBRADO NO FUE PREVIAMENTE AJUSTADO.			
<b>Aceptación de los Resultados de Calibración</b>			
POR CENACE:  Ing. Jorge Ortiz		POR HIDROSIBIMBE:  Ing. Verónica Calza	

Panamericana Sur Km. 17 1/2 • Teléfonos: (593 2) 2992 001 • Fax: 2992 031  
 Presidencia del Directorio; 12 de Octubre N24-562 Ed. World Trade Center  
 Torre A Piso 10 Of 1004 • Telf.: 2523 143 • Fax: 2551 363  
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# HIDALGO e HIDALGO S. A.

**DIRECCION EN QUITO**  
Av. Galo Plaza Lasso N51-127  
(10 de Agosto N° 8975) y Algarrobos)  
Teléfonos: 240-8038 – 245-3092 Fax: 240-0541  
E-mail: [hidalgo@hehconstructores.com.ec](mailto:hidalgo@hehconstructores.com.ec)

**DIRECCION EN GUAYAQUIL**  
Km. 6½ vía a la costa  
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E-mail: [hehguquil@gye.satnet.net](mailto:hehguquil@gye.satnet.net)  
Web site: [www.hehconstructores.com](http://www.hehconstructores.com)

**DIRECCION EN CUENCA**  
Km. 10½ Autopista Cuenca-Azogues  
(Chaulabamba)  
Teléfono: 875-288  
Fax: 875-490

## ENVIRONMENTAL ACTIVITIES PHOTOS



# HIDALGO e HIDALGO S. A.

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Web site: [www.hehconstructores.com](http://www.hehconstructores.com)

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Km. 10½ Autopista Cuenca-Azogues

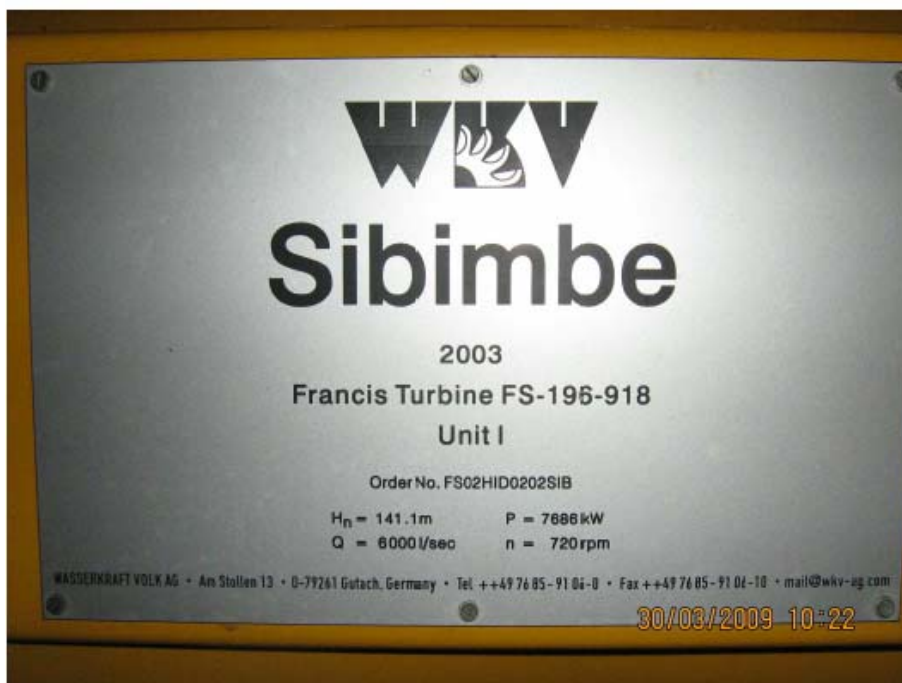
(Chauillacamba)

Teléfono: 875-288

Fax: 875-490

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## TURBINE INSTALLED POWER PLATES



# HIDALGO e HIDALGO S.A.

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Web site: [www.hehconstructores.com](http://www.hehconstructores.com)

## CERTIFICATION DOCUMENTS OF ENVIRONMENTAL AUDIT

**León Vargas Antonio Paúl**  
PRESTACIÓN DE SERVICIOS PROFESIONALES  
Av. 9 de Octubre 200 y Pichincha \* Telf.: 091919929  
E-mail.: antonioleonec@yahoo.com  
Guayaquil - Ecuador

R.U.C.: 0913769238001  
AUT SRI. 1106114212  
**FACTURA**  
S 001 - 001  
No. **0000510**

Fecha de Emisión: Marzo 30 de 2009  
Ciudad: Guayaquil  
Cliente: Hidalgo e Hidalgo S.A.  
Dirección: Av. Galo Plaza Lasso N° 51-127 y Algarrobos  
R.U.C./C.I.: 1790059111001 Telf.: 022400616 Fax: 022411670

CANT.	DESCRIPCION	P. UNITARIO	TOTAL
	cancelación por elaboración de Auditoría Ambiental de cumplimiento de la Central Hidroeléctrica Río Sibimbe, correspondiente al período 2008		\$ 3250-
Son: <u>Tres mil quinientos cincuenta 00/100</u>		SUBTOTAL \$	\$ 3250-
		I.V.A. 0% \$	
		I.V.A. 12% \$	\$ 390-
		TOTAL \$	\$ 3640-

Recibí Conforme

RAMIREZ SUÁREZ CARLOS FAUSTO, SERVICIOS DE IMPRESION Y DISEÑO GRAFICO "CARLOS" • R.U.C. 0907419625001  
AUT. 6456 - 1BL. 50X3 DEL 000501 AL 000550 ELAB. SEPTIEMBRE /2008 CAD. SEPTIEMBRE /2009 Telf.: 2400588

ORIGINAL: ADQUIRENTE  
COPIA 1: EMISOR / COPIA 2: S.R.I.

Translation of this Invoice:

LEON VARGAS ANTONIO PAUL

Professional Services  
(Address)

Contribution No.  
INVOICE No. 0000510

Client: HIDALGO e HIDALGO S.A.

City: Guayaquil

Address: Ave. Galo Plaza Lasso N51-127 y Algarrobos

Contribution No. 1790059111001 Phone: 022400616

Fax: 022411670

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	Payment for elaboration of Environmental Audit of Sibimbe Hydroelectric		3.250
It is: Three thousand six hundred and forty			Subtotal 3.250 USD
Authorized Signature			Tax 0%
Client Signature			Tax 12% 390 USD
			Total 3.640 USD