

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM
(CDM-SSC-CPA-DD) - Version 01**



NAME /TITLE OF THE PoA: Guacamaya Small Scale Hydropower Programme
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**CLEAN DEVELOPMENT MECHANISM
SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-
DD)
Version 01**

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NOTE:

- (i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.
- (ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)^{1,2} that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

¹ The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

² At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

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SECTION A. General description of small scale CDM programme activity (CPA)

A.1. Title of the small-scale CPA:

>>

CPA title

Version number of the document: version

Date: date

A.2. Description of the small-scale CPA:

>>

CPA title is a small run-of-river hydro power plant with an installed capacity of installed capacity of turbine of generator if available CPA connecting to the national project location electricity grid.

A.3. Entity/individual responsible for the small-scale CPA:

>>

CPA entity name

Name of the contact person and e-mail

A.4. Technical description of the small-scale CPA:

The CPA entity name uses water from the river river name to generate electricity. From the water intake water the water flow is diverted to the power plant, always leaving a minimum residual flow in the natural river bed. The water is conducted through a penstock distance entry meters to the power house. The airline distance from water intake to power house is distance entry meters. One or more turbine type turbines and (a) suitable generator(s) are located in the power house. From there the plant connects to the next nearby power sub-station through a XXX power line. A discharge channel returns the water to the natural river bed. An implementation timeline is provided to the validating DOE.

Technical description of the project.

A.4.1. Identification of the small-scale CPA:

>>

A.4.1.1. Host Party:

>>

Insert host country

A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the small-scale CPA (maximum one page):

>>

CPA title is located in CPA location, CPA country. The projects unique identification is the location of its power house at CPA coordinates and the location of its water intake at CPA coordinates (See below Figure 1 and 2).

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Regional map with CPA location

Figure 1: Location of the project. Source Environmental Assessment.

A.4.2. Duration of the small-scale CPA:

A.4.2.1. Starting date of the small-scale CPA:

>>

dd/mm/yyyy, description on how this date is taken as starting date

A.4.2.2. Expected operational lifetime of the small-scale CPA:

>>

CPA lifetime

A.4.3. Choice of the crediting period and related information:

Renewable crediting period or fixed crediting period

A.4.3.1. Starting date of the crediting period:

>>

Later of dd/mm/yyyy, or date of registration of the PoA.

A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable CP:

>>

7 or 10 years

A.4.4. Estimated amount of emission reductions over the chosen crediting period:

>>

Table 1: Estimated amount of emission reductions over the chosen crediting period

Year	Annual estimation of emission reductions in tonnes of CO2
Y1	
Y2	
Y3	
Y4	
Y5	
Y6	
Y7	
Total emission reductions (t CO2)	
Total number of crediting years	7
Annual average over the crediting period of estimated reductions (t CO2)	

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A.4.5. Public funding of the CPA:

>>

The project does not receive public funding.

A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component

>>

Specific information on de-bundling for the CPA, include distance table

Table 2. Distance (km) of CPA name to CDM activity of the same activity implementer in the same sectoral scope

A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:

>>

The present small-scale CPA is not registered as an individual CDM project and is not part of another PoA. This can be assured by crosschecking the list of projects under validation and registered in country in the UNFCCC webpage. Furthermore, there is only xxx registered PoA in country, the included CPA is not the name of the CPA project.

SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions

B.1. Title and reference of the Registered PoA to which small-scale CPA is added:

>>

Guacamaya Small Scale Hydropower Programme of Activities

B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA :

>>

CPA title is eligible to be included to the Guacamaya Small Scale Hydropower Programme of Activities because:

Eligibility criteria of the Guacamaya PoA-DD:	Conditions of the San Alejo project:
1. The plant is newly installed hydroelectric power plant in country, a country included in the boundary;	Include response
2. The plant is a newly built and does not involve the retrofitting or modification of an existing facility for renewable energy generation;	Include response
3. The plant has no energy generating equipment which is transferred from	Include response

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another activity and no existing equipment is transferred to another activity;	
4. The plant has an installed capacity of xxMW at generator which is less than 15MW;	Include response
5. The plant has a power density of no less than 4 W/m2 (for projects with reservoir);	Include response
6. The plant connects to the National Electricity Grid of the host country.	Include response
7. The plant is not the result of the CPA implementer seriously considering grid connected electricity generation with a different technology as an alternative to the project.	Include response
8. No ODA funds from Annex I countries will be used for the development of the project.	Include response
9. The project shall comply with “Guidelines on Assessment of Debundling for SSC Project Activities” at it latest version-	Include response .
10. The project shall not seek registration in other emission reduction schemes, or as a stand-alone project under the CDM, neither being included in other programme of activities to avoid any possibility of double counting.	Include response
11. Shall demonstrate additionality in line with the requirements of the “Guidelines on the Demonstration of Additionality of Small-Scale Project Activities” or, if applicable, with the “Guidelines for Demonstrating Additionality of Microscale Project Activities”.	Include response
12. The start date of the CPA shall not be before start date of the PoA.	Include response
13. Have performed the local stakeholder consultation process before start of inclusion in the programme and must	Include response

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comply with environmental approval requirements of the host country.	
14. The CPA shall meet the small-scale or micro scale threshold criteria and remain within those thresholds throughout the crediting period of the CPA.	Include response

B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:

>>

The proposed CPA would not have occurred anyway without CDM registration due the following barriers which are in line with section E.5.2. of the Guacamaya PoA DD.

Commencement of the project:

The commencement of the CPA is expected to be on **date of start**, after the start of the validation of the Guacamaya PoA, which started on 13/04/2011 (the first time) and 20/10/2011 (the second start including the multi boundary).

The following chronology of events demonstrates that continuing and real actions were taken to secure CDM status by the project participants.

Milestone	Date
Include information on the milestone	Date of the achieved milestone.

The proposed CPA would not have occurred, without CDM due to the following barriers, which are in line with section E.5.1. and E.5.2. of the Guacamaya PoA DD.

Project installed in an underdeveloped region within the host country.

Barrier due to access to finance.

Other barriers.

B.4. Description of the sources and gases included in the project boundary and proof that the small-scale CPA is located within the geographical boundary of the registered PoA.

>>

The GHG emission sources included in or excluded from the project boundary are as follows:

	Source	Gas	Included?	Justification
Baseline	The Power Grid electricity production from the host country	CO2	Included	According AMS.I.D.vxx, only CO2 emissions from electricity generation should be accounted.
		CH4	Excluded	According to AMS.I.D.
		N2O	Excluded	According to AMS.I.D.

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Project Activity	CPA electricity production	CO2	Excluded	According to AMS.I.D.
		CH4	Excluded	According to AMS.I.D.
		N2O	Excluded	According to AMS.I.D.

Table 7. GHG Sources included within project boundary

As referred to methodology AMS-I-D Grid connected renewable electricity generation, the project boundary encompasses the physical, geographical site of the renewable generation source as well as all power plants connected physically connected to the same electricity system as the project activity.

The project boundary is defined by the hydroelectric turbine installation and the control station of the **CPA title** and the **Grid Name**, the defined electricity system for the project activity. Only CO2 emission in the boundary will be considered. All data used to determine baseline emissions can be located in Annex 3.

CPA title is located within the boundaries of the republic of **host country** as specified in A.4.1.2.

B.5. Emission reductions:

B.5.1. Data and parameters that are available at validation:

>>

Data / Parameter:	EFgrid,CM,y
Data unit:	tCO2e/MWh
Description:	Emission factor of the grid where the hydropower is exporting the electricity to.
Source of data used:	Include the respective data availability for the country where the CPA is being developed.
Value applied:	Include the value calculated for the country where the CPA is developed
Justification of the choice of data or description of measurement methods and procedures actually applied :	The value is calculated with the latest data available at the start of the validation of the Guacamaya PoA.
Any comment:	

Data / Parameter:	EFgrid,OM,y
Data unit:	t CO ₂ /MWh
Description:	Operating margin CO2 emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system”.
Source of data used:	Include the respective data availability for the country where the CPA is being developed.
Value applied:	Include the value calculated for the country where the CPA is

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	developed
Justification of the choice of data or description of measurement methods and procedures actually applied :	As per the requirements of the “Tool to calculate the emission factor for an electricity system (version 02.2.1.)”
Any comment:	All relevant data and parameters are taken official sources.

Data / Parameter:	EF_{grid,BM,y}
Data unit:	t CO ₂ /MWh
Description:	Build margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system”
Source of data used:	The grid emission factor was calculated using the most updated available information at the start of the validation (20/10/2011).
Value applied:	Include the value calculated for the country where the CPA is developed.
Justification of the choice of data or description of measurement methods and procedures actually applied :	Emissions (tCO ₂) (last year available) / Generation (MWh) (last year available) according to the “Tool to calculate the emission factor for an electricity system (version 02.2.1.)”
Any comment:	All relevant data and parameters are taken from official sources.

Data / Parameter:	NCV_{i,y}
Data unit:	TJ/Gg
Description:	Net calorific value (energy content) per mass unit of fuel <i>i</i> in year <i>y</i>
Source of data used:	IPCC default values at the lower limit of the uncertainty at a 95% confidence interval as provided in Table 1.2 of Chapter 1 of Vol. 2 (Energy) of the 2006 IPCC Guidelines on National GHG Inventories
Value applied:	Fuel Oil: 39.8 TJ/Gg Diesel: 41.4 TJ/Gg Coal: 21.6

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Justification of the choice of data or description of measurement methods and procedures actually applied :	No other data is publicly available. IPCC guidelines have been used in a conservative manner.
Any comment:	Notice that the original fuel consumption data provided by the facilities is expressed in gals. These are converted to mass units (by means of a coefficient D_i)

Data / Parameter:	$EFCO_{2,i,y}$
Data unit:	tCO ₂ /TJ
Description:	CO ₂ emission factor of fossil fuel i in year y .
Source of data used:	IPCC default values at the lower limit if the uncertainty at a 95% confidence interval as provided in Table 2.2 of Chapter 2.3.2.1. of Vol.2 (Energy) of the 2006 IPCC Guidelines on for National Greenhouse Gas Inventories
Value applied:	Fuel Oil: 75.5 tCO ₂ /TJ Diesel: 72.6 tCO ₂ /TJ Coal: 94.6 tCO ₂ /TJ
Justification of the choice of data or description of measurement methods and procedures actually applied :	No other data is publicly available. IPCC guidelines have been used in a conservative manner.
Any comment:	

Data / Parameter:	FCi,m,y
Data unit:	Mass or volume unit
Description:	Amount of fossil fuel type i consumed by power plant/unit m , k or n (or in the project electricity system in case of FCi,y) in year y
Source of data used:	Utility or government records or official publications
Value applied:	Latest information available at the start of validation and provided by official sources.

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Justification of the choice of data or description of measurement methods and procedures actually applied :	OM: For each crediting period using the most recent three historical years for which data is available at the time of submission of the CDM-PDD to the DOE for validation. BM: For the first crediting period, either once ex ante or annually ex post, following the guidance included in Step 5. For the second and third crediting period, only once ex ante at the start of the second crediting period.
Any comment:	

Data / Parameter:	<i>EG_{m,y}</i>
Data unit:	MWh
Description:	Net electricity generated and delivered to the grid by power plant/unit <i>m</i> in year <i>y</i> .
Source of data used:	Utility or government records or official publications
Value applied:	Latest information available at the start of validation and provided by official sources.
Justification of the choice of data or description of measurement methods and procedures actually applied :	Data is obtained from official sources
Any comment:	

B.5.2. Ex-ante calculation of emission reductions:

>>

The total emission reductions of the CPA are calculated on the basis of the equations and parameters presented and explained in section E.6.1 of the PoA DD and B.5.1 of this document. Baseline information for the combined margin emission factor is presented in Annex 3 of this document.

Taking into account **starting date crediting period** as a starting date of a 7 year crediting period, emission reductions calculations for year **first year of crediting period** and **last year of crediting period** refer to the fraction of the respective year that is covered by the crediting period.

Baseline emissions

Grid connected renewable electricity generation

1. Calculation of the baseline emissions from electricity generation

The Electricity delivered (*EG_y*) by **CPA title** is calculated based on the results of the feasibility study as:

Insert expected energy generation as per approved feasibility study.

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PLF: **XXX**

Installed Capacity: **XXX turbine and generator if available**

Thereby EGy = **electricity delivered by project** MWh/year **source of the value provided**

Table 8. Electricity delivered by the project

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7
EGy MWh/year							

$EF_{grid CM y} = \text{grid emission factor from the grid in the host country}$

Equation:

$BE_{y power} = EGy, X EF_{grid CM y}$

Results:

Table 9. Baseline emissions from electricity generation

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7
$BE_{y power}$ (tCO ₂ /year)							

Emission reductions

2. Calculation of emission reduction from electricity generation

Input data:

$BE_{y power} = 0$

$PE_{y, power} = 0$

$Leakage_{y, power} = 0$

Equation:

$ER_{y, power} = BE_{y power} - PE_{y, power} - Leakage_{y, power}$

Result:

Table 10. Emission reduction from electricity generation

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7
$ER_{y, power}$ (tCO ₂ /year)							

B.5.3. Summary of the ex-ante estimation of emission reductions:

>>

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Year	Estimation of project activity emissions (tonnes of CO ₂ e)	Estimation of baseline emissions (tonnes of CO ₂ e)	Estimation of leakage (tonnes of CO ₂ e)	Estimation of overall emission reductions (tonnes of CO ₂ e)
Y1	0		0	
Y2	0		0	
Y3	0		0	
Y4	0		0	
Y5	0		0	
Y6	0		0	
Y7	0		0	
Y8	0		0	
Total (tonnes of CO ₂ e)	0		0	

B.6.1. Description of the monitoring plan:

>>

The monitoring Plan of CPA title is consistent with methodology AMS-I.D. “Renewable energy projects” (version xx). Description of the monitoring plan is presented below. An organizational chart is provided in Annex 4.

Following parameter will be monitored:

Data / Parameter:	EG_y
Data unit:	MWh/y
Description:	Quantity of net electricity supplied to the grid in year y.
Source of data to be used:	Measured by electricity meter(s), description of the meter
Value of data applied for the purpose of calculating expected emission reductions in section B.5	XX MWh/y
Description of measurement methods and procedures to be applied:	The net electricity production will be measured continuously and recorded monthly. The net electricity will be calculated by subtracting the electricity exported with the electricity imported by the CPA. A high level of accuracy of the measurements will be achieved due to the use of high-precision equipment accuracy of the equipment calibrated and tested according to recognized standards description of standards . In this section the project participants shall provide description of equipment used for measurement, if applicable, and its accuracy class.
QA/QC procedures to be applied:	Device calibration will be carried out periodically in accordance with manufacturer specifications where available. The calibration frequency will comply with applicable national regulations and requirements and will not

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	exceed 3 years, as per CDM standards. If applicable, specific project testing regime.
Any comment:	The meter readings will be cross-check with available internal and/or external information as electricity invoices.

Data / Parameter:	Cap_{PJ} (for CPAs with reservoir)
Data unit:	W
Description:	Installed capacity of the hydro power plant after the implementation of the project activity
Source of data to be used:	Project Site
Value of data applied for the purpose of calculating expected emission reductions in section B.5	XX
Description of measurement methods and procedures to be applied:	Determine the installed capacity based on recognized standards or project documents.
QA/QC procedures to be applied:	Yearly monitoring.
Any comment:	

Data / Parameter:	A_{PJ} (for CPAs with reservoir)
Data unit:	m ²
Description:	Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full
Source of data to be used:	Project site.
Value of data applied for the purpose of calculating expected emission reductions in section B.5	XX
Description of measurement methods and procedures to be applied:	Measured from topographical surveys, maps, satellite pictures, etc
QA/QC procedures to be applied:	Yearly monitoring.

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Any comment:

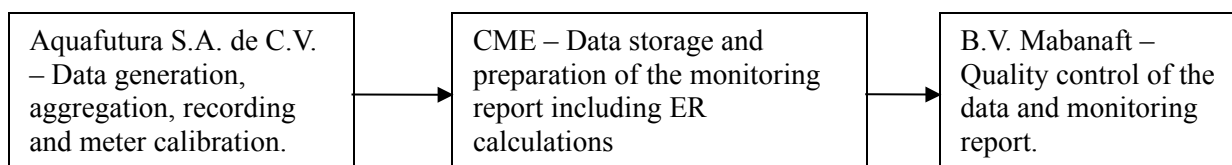
Anaconda Carbon S.A. has developed a Management Plan, which will be applied during verification activities to assure correctness of data management.

Monitoring shall consist of metering the electricity generated by the renewable technology.

1. Management Structure and Responsibilities

1. Overall responsibility for daily monitoring and reporting lies with the project owner. The manager of the proposed project is responsible for review the monthly reported results/data and checks the calibration certificates. The data will be sent to the CME for storage and preparation of the monitoring report, the quality control and approval will be done by B.V. Mabanft.

Organizational Chart:



Data Collection: The electricity supplied to the grid by the project activity will be measured by calibrated electricity meters located in the substation, the point of connection to the grid. Any electricity import will be discounted to calculate the net electricity supplied to the grid.. The parameter will be monitored at the project site and crosschecked with the invoices of electricity commercialized. Data will be monitored continuously, measured hourly and recorded monthly as required by the applicable methodology.

Data Recording: All data collected will be recorded monthly into an electronic spreadsheet.

Data Calibration: All measurements should be conducted with calibrated measurement equipment (electricity meters shall have at least a class of **xx** or higher). The calibration and testing regime is defined by local authorities in the **Reference Doc**, but will be performed at least every 3 years.

Data Report: Data recorded (control value) and the invoices (main value) will be consolidated on a monthly basis and will be checked for quality control. If there are discrepancies in the data, the source of the variation will be identified, whatever is the main measured value or the control value. The data report will be concluded monthly and will be verified by the Project Developer's Head Office.

Data Archives: The data recording, the data report and the invoices will be archived, together with this monitoring plan. All data collected as part of monitoring should be archived electronically and be kept at least for 2 years after the end of the last crediting period.

2. Data Quality Control

An internal procedure to secure the correctness of data will be employed. Data and reports will be checked internally to secure correctness of data. In case of mistakes, corrective actions will be applied to avoid future similar mistakes. In case of erroneous measurements, the data will not be taken into account for emission reduction purposes.

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3. Training and Monitoring Personnel

All people that participate in the monitoring process will be suitably qualified and trained in the operation and maintenance of the plant. They will also receive instructions of the monitoring plan.

4. Emission factor calculation

The combined margin emission factor will be fixed for the first crediting period and updated when the crediting period of the PoA is renewed, using ex-ante data for OM and BM as described in the PoA-DD document.

5. Verification and Monitoring Results

The monitoring report will be prepared by the managing entity. It shall contain the data report, the emission factor calculation and the results of the emissions reductions of the project for a certain period.

6. Leakage monitoring:

No energy generating equipment is transferred from another activity to this project and there is no existing equipment to be transferred to another activity. The project activity involves electricity generation from hydro sources. The employed hydro energy generator can only convert hydro energy into electrical energy and cannot use any other input fuel for electricity generation. Thus, in no ways and means are required to monitor leakage from the project activity.

A single monitoring report containing all monitoring results of all CPAs included in the PoA, clearly separating the monitoring results of individual CPAs will be prepared.

C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justify the choice of level at which the environmental analysis is undertaken:

Environmental analysis is done at PoA level

Environmental analysis is done at SSC-CPA level ✓

The environmental analysis is undertaken at the CPA level. The environmental impact of small hydro plants depends entirely on the particular location, size and host country. Therefore the CPA level is the adequate choice for the environmental analysis.

C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:

>>

Description of the environmental diagnostic report, related issues and possible impacts.

C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:

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>>

Describe the environmental assessments required for the country were the CPA is included.

SECTION D. Stakeholders' comments

>>

D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:

Local stakeholder consultation is done at PoA level

Local stakeholder consultation is done at SSC-CPA level ✓

The stakeholder comments are invited at the CPA level. The impact on the surrounding communities of small hydro plants depends entirely on the particular location, size and how the plant is embedded in its environment. Therefore, the CPA level is the adequate choice for inviting stakeholder comments.

D.2. Brief description how comments by local stakeholders have been invited and compiled:

>>

Description of the applicable national regulations for the specific CPA.

The stakeholder consultation for CPA was held on DATE, at PLACE. The event had a total turnout of XX participants including HIGHLIGHTS.

Invitation for the event were issued DESCRIBE. The stakeholder consultation was also announced on PAPERDETAILS and through a publically visible sign SIGNLOCATION.

The main focus of the presentation was to (a) inform the local population about the project characteristics and CDM generalities, (b) seek out the opinions and concerns that the local population may have regarding the project and (c) to promote a sense of communication between the project and the local community. No negative comments were received and each question or suggestion from the community received an immediate response from the project representatives.

D.3. Summary of the comments received:

>>

Summary of comments received.

D.4. Report on how due account was taken of any comments received:

>>

Assessment and follow up of the comments received.

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Annex 1

**CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-
SCALE CPA**

Organization:	
Street/P.O.Box:	
Building:	
City:	
State/Region:	
Postfix/ZIP:	
Country:	
Telephone:	
FAX:	
E-Mail:	
URL:	
Represented by:	
Title:	
Salutation:	
Last Name:	
Middle Name:	
First Name:	
Department:	
Mobile:	
Direct FAX:	
Direct tel:	
Personal E-Mail:	

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM
(CDM-SSC-CPA-DD) - Version 01**



NAME /TITLE OF THE PoA: Guacamaya Small Scale Hydropower Programme
of Activities



CDM – Executive Board

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Annex 2

INFORMATION REGARDING PUBLIC FUNDING

No public founding has been received for the project activity.

Annex 3

BASELINE INFORMATION

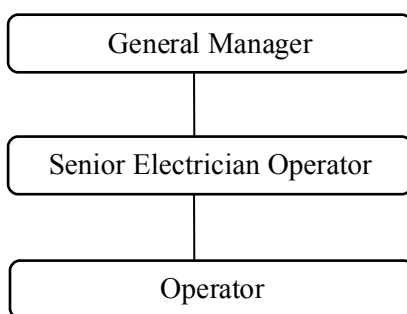
See PoA DD, the emission factor of the electricity grid has been fixed ex-ante.



Annex 4

MONITORING INFORMATION

The monitoring and calibration processes are described in section B.7.2 "Description of the monitoring plan". The aforementioned process will be carried out by the following personnel, as well as qualified third party specialists, as necessary.



Monitoring functions per role as they relate to monitoring

General Manager

1. Signs off on the written statement for each month.
2. Designates the representative for precision testing and calibration.
3. Attaches seals to the meters or designates the appropriate person for this function.

Senior Electrician Operator

1. Drafts the written statement for each month to be delivered to the General Manager for signature.
2. Verifies the readings carried out by the Electrician Operator.
3. Maintains communication with the energy buyer.

Operator

1. Carries out readings from meters.
2. Stores readings in electronic database.
3. Sends meter readings to Plant Manager for the monthly written statement.
