

## **SMALL-SCALE PoA CDM VALIDATION REPORT**

**D&E Green Enterprises (Private Entity)**

**Enel Trade SpA (Private Entity)**

### **VALIDATION OF THE PROGRAM OF ACTIVITIES:**

**Replacement of traditional charcoal stoves  
with efficient EcoRecho stoves in Haiti**

**AENOR REFERENCE: 2012/096/CDM/32**

**VERSION: 03**

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>Validation Report:</b>	AENOR Reference n°:		Version of this report:		Date:	
	2012/096/CDM/32		03		2013/07/24	
<b>SSC-POA-DD:</b>	Title:		GSC publication date:		Comments received:	
	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		2012/07/13		<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	
<b>Parties involved:</b>	Host Party:		Other involved Parties:			
	Republic of Haiti		Italy			
<b>Project Participant(s):</b>	In host Party:		In other involved Parties:			
	D&E Green Enterprises		Enel Trade SpA			
<b>Size of the project activity:</b>	<input checked="" type="checkbox"/> Small scale <input type="checkbox"/> Large scale					
<b>Applied methodology/ies:</b>	Title:		Code:		N° version	
	Energy efficiency measures in thermal applications of non-renewable biomass		AMS II.G		04	
<b>Applied tools:</b>	Title:		Version:			
	Title:		Version:			
<b>Emission reductions (ER):</b> <input checked="" type="checkbox"/> Annual average of the ER (tCO <sub>2</sub> e) <input type="checkbox"/> Total ER (tCO <sub>2</sub> e)		GSC PDD:		Final PDD:		
		43,383 tCO <sub>2</sub>		41,227 tCO <sub>2</sub>		
<b>Previous versions of this document:</b>			Version:		Date:	
			1		2013/06/04	
			2		2013/07/16	
			3			
			4			
<b>Report prepared by:</b>		Climate Change Unit. AENOR				

\* The comments are detailed in Section 4 of this Validation Report

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**Abbreviations**

AENOR	Spanish Association for Standardization and Certification
AMS-II.G	Energy efficiency measures in thermal applications of non-renewable biomass.
CAR	Corrective action request
CL	Clarification
CDM	Clean Development Mechanism
CDM SSC-CPA-DD	CDM Programme Activity Design Document
CDM SSC-PoA-DD	Small Scale CDM Programme Of Activities Design Document
CER	Certified emission reductions
CME	Coordinating and Managing Entity
DECISION 4/CMP.1	Simplified Modalities and Procedures for Small-Scale CDM Project Activities Annex II
DNA	Designated national authority
EB	Executive Board of the CDM of the Kyoto Protocol
EDAS	Electronic Data Archival System
EIA	Environmental Impact Assessment
GHG	Greenhouse Gasses
GS	Gold Standard
FAR	Forward Action Request
GSC	Global stakeholder consultation process
IPCC	Intergovernmental Panel on Climate Change
MP	Monitoring plan
MWh	Megawatt hour

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NGO	Non-Governmental Organization
PP	Project Participant
RDBMS	Relational Database Management System
tC	Carbon tonne
TJ	Terajoule
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

**Table 1: Abbreviations**

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## **1 INTRODUCTION**

### **1.1 Objective**

This validation concerns a small scale CDM Programme of Activities (hereinafter PoA) implemented by D&E Green Enterprises and Enel Trade SpA. in Haiti, to reduce emissions of CO<sub>2</sub> by means of the replacement of inefficient traditional charcoal stoves with efficient EcoRecho stoves to reduce the surplus carbon dioxide (CO<sub>2</sub>) that would be emitted by inefficient burning of charcoal by traditional stoves.

D&E Green Enterprises has commissioned AENOR to validate this PoA. The objective of the validation process is to have an independent, third party assessment of the proposed Programme of Activities (PoA) and the CDM Programme Activity (CPA) template with generic information applicable to all CPAs under that PoA and the associated documentation, against the applicable CDM requirements. In particular, the project's baseline, the monitoring plan (MP), and the project's compliance with relevant UNFCCC and host country issues and criteria are validated in order to confirm that the project design as documented is sound and reasonable and meets the stated requirements and identified criteria. Validation is a requirement for all CDM projects and is considered essential in providing quality assurance for the project.

UNFCCC criteria refer to the Kyoto Protocol criteria and the CDM rules and modalities as agreed to in the Bonn Agreement and the Marrakech Accords.

### **1.2 Scope**

The scope of the validation is to assess all aspects of GHG reduction involved in the project, including the project design, the baseline, the methane emissions, the determination of the emission factor of the grid to calculate the project emissions, and the procedures proposed for monitoring the emission reductions in the future.

The following documents were reviewed as part of the scope of the activity:

- CDM SSC-PoA-DD /1-2/, including baseline study and monitoring plan.
- CPA\_01 CPA-DD /3/
- Approved Methodology: AMS II.G version 04 /4/
- Decision 4/CMP.1 and relevant decisions and guidelines from the EB.
- Sampling and surveys for CDM project activities and programme of activities Standard, version 03.0. /5/
- Guidelines on assessment of debundling for SSC project activities, version 03.0. /6/
- Guidelines on the demonstration of additionality of small-scale project activities, version 09.0. /7/
- Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities Standard, version 02.1. /8/

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- CDM Validation and Verification Standard version 03.0 /9/
- Letter of Approval from the DNA of Haiti /10/
- Letter of Approval from the DNA of Italy /11/
- Associated documentation (environmental requirements, investment analysis, etc).

The validation scope is defined as an independent and objective review of the PoA-DD and CPA01-DD, the project's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations. AENOR, based on the Specific Instruction for the validation, verification and certification of clean development mechanism (CDM) project activities (IE-DTC-039) /12/, has used a risk-based approach in the validation, focusing on the identification of significant risks for project implementation and the generation of CERs.

The validation is not meant to provide any consultancy services to the Client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the PoA-DD.



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## 2 METHODOLOGY

The project assessment aims at being a risk-based approach and is based on the methodology developed in the Validation and Verification Standard, an initiative of designated and applicant entities, which aims to harmonize the approach and quality of all such assessments.

The validation of the programme began in July 2012 and was concluded in July 2013. The validation was performed in the manner of an audit, where, first, a desk review of the PoA-DD and CPA01-DD was undertaken against the approved methodology and CDM and other relevant criteria. The desk review was followed by a site visit to Haiti, Small Project CPA-DD project site and key stakeholders in Haiti.

In order to ensure transparency, two validation protocols were customized for the PoA and the CPAs, according to Specific Instruction IE/DTC/039. The protocols show, in a transparent manner, criteria (requirements), means of verification and the results from validating the identified criteria.

The sequence of the validation is given in the table below:

Topic	Date
Submission of PoA-DD for global stakeholder consultation process	13/07/2012
On-site visit	26-29/11/2012
Validation Protocol - Version 01.	28/09/2012
Final Validation Report	24/07/2013

**Table 2: Sequence of the main validation activities**

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## 2.1 Appointment of team members and technical reviewers

The list of involved personnel and the qualification status are summarized in the table below:

Name	Qualification	
	Position in the team	Technical areas
Jose Antonio GESTO VILACOBÁ	Chief Validator	<b>TA 3.1</b>
Mercedes GARCÍA MADERO	Validator	<b>TA 3.1</b>
Pablo TABOADA UTRERA	Validator	<b>T.A 3.1</b>
Elena LLORENTE PÉREZ	Validator	<b>T.A 3.1</b>
Alfonso MEDRANO GUTIERREZ	Technical Reviewer	-
Marcelino PELLITERO MARTÍNEZ	Technical Reviewer	<b>TA 3.1</b>

**Table 3: List of the personnel involved**

Technical areas (TA) mentioned above correspond to the following:

TA code	Technical area
TA 1.1	Thermal energy generation from fossil fuels and biomass including thermal electricity from solar (COMPLEX);
TA 1.2	Energy generation from renewable energy sources.
TA 2.1	Electricity distribution;
TA 2.2	Heat distribution
TA 3.1	Energy demand
TA 4. 1	Cement sector (COMPLEX);
TA 4.2	Aluminium (COMPLEX);
TA 4.3	Iron and steel (COMPLEX);
TA 4.4	Refinery (COMPLEX)

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TA code	Technical area
TA 5.1	Chemical process industries (COMPLEX).
TA 6.1	Construction.
TA 7.1	Transport.
TA 8.1	Mining and mineral processes, excluding those included in TA 8.2 below;
TA 8.2	Oil and gas industry, coal mine methane recovery and use (COMPLEX).
TA 9.1	Metal production.
TA 10.1	Mining and mineral processes, excluding those included in TA 10.2 below;
TA 10.2	Oil and gas industry, coal mine methane recovery and use (COMPLEX).
TA 11.1	Chemical process industries (COMPLEX);
TA 11.2	GHG capture and destruction.
TA 12.1	Chemical process industries (COMPLEX).
TA 13.1	Waste handling and disposal;
TA 13.2	Animal waste management.
TA 14.1	Forestry
TA 15.1	Agriculture
TA 15.2	Animal waste management.

**Table 4: List of technical areas**

## 2.2 Document review

The POA-DD and CPA01-DD submitted by the PPs were reviewed against the approved methodology and against CDM and other relevant criteria. Additional background documents related to the project design, baseline and financial analysis were also made available before and during the on-site visit in Haiti.

To address the corrective actions and clarification requests that arose from the desk review and on-site visit, the consultants revised the initial project design documents submitted and developed the final PoA-DD and CPA-DD.

The reviewed documents used during the validation process are listed in section 8 of this report.

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## 2.3 Follow-up actions

AENOR validation team composed by Jose Antonio Gesto Vilacoba and Pablo Taboada Utrera conducted interviews with project developers and main stakeholders in Haiti to confirm selected information and to resolve issues identified in the document review.

On 26-29/11/2012, AENOR's validation team performed interviews and physical site inspections with project stakeholders to confirm relevant information, and to resolve issues identified in the document review. During the visit, representatives from Haitian project participants, in addition to relevant local stakeholders such as local authorities and local inhabitants, affected by the PoA were interviewed. Also, the AENOR team visited the Haiti DNA representative (Environmental Ministry).

Interviewed organization Person/Position	Interview topics
<b>ENEL – D&amp;E Green Enterprises</b> <ul style="list-style-type: none"> <li>Maurizio Di Battista (GEM CS)</li> <li>Duquesne Fednard</li> </ul>	<p>Programme design.</p> <p>System management.</p> <p>Compliance with environmental law.</p> <p>Permits and authorizations applicable to the Programme.</p> <p>Consultation with authorities and other stakeholders.</p> <p>Opinion about the Programme.</p> <p>Benefits for the community.</p> <p>PoA compliance with local policies and legislation.</p>
<b>BALANCE CO2 Ltd.</b> (Consultancy firm) <ul style="list-style-type: none"> <li>Bhajan Kumaresan. GHG Lead Analyst.</li> <li>Harish Rao.</li> </ul>	<p>Programme design.</p> <p>System management.</p> <p>Compliance with environmental law.</p> <p>Additionality assessment.</p> <p>Ex-ante baseline determination.</p> <p>PoA compliance with local policies and legislation.</p>
<b>INTERNATIONAL LIFELINE FUND.</b> <ul style="list-style-type: none"> <li>Christine Roy. Program Director.</li> </ul>	<p>Programme design.</p> <p>System management.</p>

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Interviewed organization Person/Position	Interview topics
	<p>Compliance with environmental law.</p> <p>Permits and authorizations applicable to the Programme.</p> <p>Consultation with municipal's authorities, landowners and other stakeholders.</p> <p>Opinion about the Programme.</p> <p>Benefits for the community.</p> <p>PoA compliance with local policies and legislation.</p>
<p><b>CHEMONICS INTERNATIONAL</b></p> <ul style="list-style-type: none"> <li>Elisha Moore-Delate. Component technical lead. Recho Pa'w. Chemonics – USAID Contractor.</li> </ul>	<p>Programme design.</p> <p>System management.</p> <p>Compliance with environmental law.</p> <p>Consultation with municipal's authorities, landowners and other stakeholders.</p> <p>Opinion about the Programme.</p>
<p><b>DNA of Haiti. Gabinet du Ministre. Environmental Ministry</b></p> <ul style="list-style-type: none"> <li>Justin A. Casimir. Consultant Gabinet du Ministre (MDE).</li> <li>Joaneson Lacour. Consultant at Gabinet du Ministre. Director of "Bureau D'Innovation Technologique"</li> <li>Bertin Michel. Director "Cadre de vie &amp; Assainissement".</li> </ul>	<p>Programme design.</p> <p>Inclusion of CPAs.</p> <p>Compliance with law.</p> <p>Consultation with municipal's authorities, landowners and other stakeholders.</p> <p>Opinion about the Programme.</p>

**Table 5: Interview topics**

## 2.4 Findings

As an outcome of the validation process, the team can raise different types of findings according to the CDM Validation and Verification Standard.

A Clarification Request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met; or

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Where a non-conformance arises the validation team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions;
- b) The CDM requirements have not been met;
- c) There is a risk that emission reductions cannot be monitored or calculated.

Failure to address a CL may result in a CAR. Information or clarifications provided as a result of a CL may also lead to a CAR.

A Forward Action Request (FAR) is raised during validation to highlight issues related to project implementation that require review during the first verification of the project activity. FARs shall not relate to the CDM requirements for registration.

The project participants were requested to address all validation findings and ultimately provided the validation team with sufficient evidence to determine that the applicable CDM requirements have been met. The project participant modified the initial PoA-DD to resolve the validation team concerns and resubmitted a final version of the PoA-DD. AENOR has prepared this report based on the final PoA-DD.

All the validation findings are summarized in section 3 below and documented in more detail in section 7 and in the validation protocol included in Annex 1.

## **2.5 Internal Quality Control**

Following the completion of the assessment process by the validation team, all documentation undergoes an internal quality control through a technical review before submission to the CDM-EB. The Technical reviewer is a qualified member of AENOR, independent from the team that carried out the validation of the project activity. The technical reviewer or the team appointed for the technical review are globally qualified in the technical area and sectoral scope of the project activity.

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### **3 VALIDATION FINDINGS**

#### **3.1 Approval**

Two parties are involved in the Programme of Activities entitled: *“Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti”*, Haiti and Italy.

The Letter of Approval from the DNA of Haiti has been provided to the validation team directly by the project participants. The LoA was issued on 2 April 2013 (No. 013215) by the Ministry of Environment; AENOR confirms that the LoA states the following:

- Haiti has ratified the Kyoto Protocol on October 4, 2005.
- Haiti voluntarily participates in the CDM and confirms that the Programme “Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti” contributes to Haiti’s sustainable development and the voluntary participation of D&E Green Enterprises as project participant.
- The LoA refers to the precise proposed CDM programme of Activities title in the PoA-DD being submitted for registration.

AENOR confirms that the LoA from Haiti has been issued by the respective party designated national authority and does not doubt the authenticity of the letter of approval received from the PPs. In addition, the validation team of AENOR visited the DNA of Haiti which confirmed the award of the LoA for the proposed PoA.

On the other hand, the LOA from Italy has been also provided to the validation team directly by the project participants. The LoA was issued on 25 June 2013 (No. 0038723) by the Ministry for the Environment; Land and Sea. AENOR confirms that the LoA states the following:

- Italy has ratified the Kyoto Protocol on May 31, 2002.
- Haiti voluntarily participates in the CDM.
- The LoA refers to the precise proposed CDM programme of Activities title in the PoA-DD being submitted for registration.

AENOR confirms that the LoA from Italy has been issued by the respective party designated national authority and does not doubt the authenticity of the letter of approval received from the PPs; hence AENOR confirms that the LoA is unconditional with respect paragraphs 39-42 of the VVS v.03.0.

The validation did not reveal any information that indicates that the programme can be seen as a diversion of ODA funding towards Haiti.

#### **3.2 Participation**

As it has been previously stated, two Parties, Haiti and Italy are involved in the project.

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The host Party Haiti ratified the Kyoto Protocol on October 4, 2005 and has appointed a DNA. Italy ratified the Kyoto Protocol on 31 May 2002 and has also appointed a DNA.

The PoA CME (Coordinating and Managing Entity) is D&E Green Enterprises, which is authorized as Programme Participant and authorized by the host Party Haitian DNA, as the Coordinating and Managing Entity. Enel Trade S.p.A is also authorized by the DNA from Italy as it is confirmed through the referred LoA.

All project participants have been listed in section A.4 of the final PoA-DD. Information regarding project participants is confirmed as consistent in the latest PoA-DD and CPA01-DD.

AENOR confirms that no entities other than those approved as project participants are included in the final PoA-DD.

### 3.3 Programme Design Document

Due to the clarifications and corrective actions requested during the validation process, the project participants made a final version (05) of the PoA-DD dated 16/07/2013 and the CPA01-DD, which include corrections or clarifications to all issues raised.

The PoA-DD and the CPA01-DD are in compliance with relevant form and guidance as provided by UNFCCC. The most recent version of the forms under VVS Track is used.

AENOR considers that the guidelines for the completion of the PoA documents in their most recent version have been followed. Relevant information was provided by the Managing entity and/ or project participants in the applicable PoA sections. Completeness was assessed through the protocol included in Annex 1.

The relevant changes in the final PDD respect to the PDD for GSC are the following:

Issue	Information in POA-DD for GSC	Information in final POA-DD
Description of the project	Maximum number of stoves that can be included in a CPA: <b>44,700.</b>	Maximum number of stoves that can be included in a CPA: <b>20,200.</b>
Project participants	D&E Green Enterprises Enel Trade SpA	D&E Green Enterprises Enel Trade SpA
ER	43,383 tCO <sub>2</sub> /y (in accordance with CPA01)	41,227 tCO <sub>2</sub> /y (in accordance with CPA01)
Additionality	Investment Barrier and Barrier due to prevailing practice.	Automatic additionality through the positive list of technologies.
Starting date	14/07/2012	13/07/2012



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Issue	Information in POA-DD for GSC	Information in final POA-DD
Crediting period	01/01/2013 – 31/12/2023 (in accordance with CPA01)	01/09/2013 – 31/08/2023 (in accordance with CPA01)
Others	--	--

The mentioned changes are explained in the different sections of this validation report.

### 3.4 Programme description

The description of the project included in the PoA-DD and CPA01 was verified during the on-site visit. Through this PoA, D&E seeks to expand the reach and use of EcoRecho stoves in Haiti in order to reduce charcoal consumption, and in turn the depletion of forest cover in the country. Although the government of Haiti has a stated policy to support more efficient use of charcoal and fuel wood, there are no specific requirements governing the use of improved cookstoves (ICS) as it was crosschecked during the on site visit.

The PoA CME has confirmed that there is no diversion of ODA involved. The starting date of the proposed PoA is properly defined as 13 July 2012 and it is justified in section 3.6.1 of this report. The length of PoA is taken as 28 years.

The information presented in the PoA documents on the technical design is consistent with the actual planning and implementation of the project activity confirmed in the following ways:

- A review of data and information (see section 8)
- An on-site visit to the place where the associated real case CPA is being implemented and interview with relevant stakeholder and personnel with knowledge of the project in attendance
- A review of information of the technology which have been used to validate the accuracy and completeness of the project description:
  - Performance of Charcoal Cookstoves for Haiti, Part 1: Results from the Water Boiling Test /13/.
  - Assessment of Haiti alternative cooking technologies program USAID, 2010 /14/.
  - Cooking Fuel Needs in Haiti: A Rapid Assessment by Women's Refugee Commission & World Food Programme March 2010 /15/.
  - Disaster Management Programs for Priority Countries, Latin America & Caribbean /16/.

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- Environmental Scarcities And Conflict in Haiti Ecology and Grievances in Haiti's Troubled Past and Uncertain Future Prepared by Philip Howard For the Canadian International Development Agency, June 1998 [17].
- Stevenson.G.G. The production, distribution and consumption of fuelwood in Haiti [18].

In conclusion, AENOR confirms that the PoA-DD contains a clear description of the programme that provides the reader with a clear understanding of the precise nature of the programme. The technical aspects of its implementation project description, as included in the PoA-DD, is sufficiently accurate and complete in order to comply with the requirements of the CDM and therefore in compliance with VVS paragraph 64.

### **3.5 Baseline methodology**

The PoA-DD describes the baseline methodology, which is in conformance with the approved baseline methodology AMS-II.G version 04 entitled "Energy efficiency measures in thermal applications of non-renewable biomass".

The PoA applies to a valid version of a CDM Methodology approved by the EB. By means of cross check it can be confirmed that the applied methodology is directly derived from the methodologies section on the CDM <http://cdm.unfccc.int/index.html>. The PoA meets all applicability conditions of the applied methodology and all methodology components referred to in the applied methodology. Beyond this, the proposed PoA meets all the other possible requirements or stipulations mentioned in all sections of the selected methodology.

Furthermore the programme of activities is not expected to result in significant emissions, related to both project and leakage, other than those listed in the methodology. In summary it has been assessed that the PoA applies a valid version of an approved CDM methodology and that the methodology is applicable to the programme.

#### **3.5.1 Applicability of the selected methodology to the project activity**

The selected baseline and monitoring methodology used for the Programme of Activities "Energy efficiency measures in thermal applications of non-renewable biomass" is AMS-II.G version 04, which is valid from 3 August 2012 to 7 August 2013 and was previously approved by the CDM Executive Board.

The methodology is applicable to the Programme of Activities, because:

1. *This category comprises appliances involving the efficiency improvements in the thermal applications of non-renewable biomass. Examples of these technologies and measures include the introduction of high efficiency biomass*

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*fired cook stoves or ovens or dryers and/or improvement of energy efficiency of existing biomass fired cook stoves or ovens or dryers:*

As it is stated in the POA-DD the CPAs involve replacing inefficient traditional charcoal stoves with efficient EcoRecho stoves with a thermal efficiency of 20% or greater. In the baseline, inefficient traditional cooking stoves are used.

2. *Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.*

The Project participant has demonstrated this requirement using Haiti's 2006 [19] profile which states that "In 1923, forests covered nearly 60 percent of the country; today they cover less than 2 percent." Further, the 1989 report of the study conducted by Stevenson on the production, distribution, and consumption of fuelwood in Haiti attributes the deforestation problem to both agricultural clearing and the use of wood for fuel, and states that, "Today deforestation has advanced to the point where trees are felled at the extremities of the country (up to 300 kilometers away) to supply charcoal to Port-au-Prince. On the other hand, 2007 ESMAP study has been used also to crosscheck this requirement, and it is confirmed that the depleted Haitian forest resource base is not sufficient to meet current demand. The proposed CDM PoA is a step in that direction. The CDM methodology requirement is met by the discussion and references cited in this section, which provides sufficient evidence that non-renewable biomass has been used since December 31, 1989.

On the other hand, the limit of small scale methodology is accomplished since each CPA's emission reduction will be limited to a maximum thermal energy savings of 180 GWhth/yr or 180 million Kilowatt hour/year (106 KWh/yr), which is equivalent to the small scale threshold electrical energy savings of 60 GWhe/yr. Ex-ante calculation of the maximum number of stoves that can be sold under each CPA without exceeding the small-scale threshold has been provided for the first CPA.

AENOR confirms the applicability of the selected methodology to the Programme of Activities. The latest version of the PoA-DD adequately describes the different applicability conditions of the methodology and no deviation from the methodology has been necessary.

The Programme of Activities is not expected to result in emissions other than those allowed by the methodology, and there are no greenhouse gas emissions occurring within the proposed CDM project activity boundary as a result of the implementation of the proposed CDM project activity which are expected to contribute more than 1% of the overall expected average annual emissions reductions, which are not addressed by the applied methodology.

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### 3.5.2 Programme boundary

The boundaries (geographically and related to GHG sources / sinks) are correctly given in section A.4.5 of the PoA-DD. The geographical boundary of this PoA is the geographical boundary of the Caribbean nation of Haiti. The EcoRecho stoves will initially be disseminated in the communes of the urban centres in Haiti starting with the communes within the Port-au-Prince region. All CPAs will be implemented considering all applicable national / sectoral policies and regulations of Haiti.

As per AMS-II.G version 04, the boundary of the CPA of this PoA is “The project boundary is the physical, geographical site of the efficient systems using biomass.” i.e. Haiti.

The physical delineation of the CPA under the PoA and the description of the emission sources and GHGs that are included in the CPA boundary are appropriate for the purpose of calculating project and baseline emissions for each CPA.

In addition, all emission sources and GHGs related included and excluded from the project boundary are clearly identified and described in a complete manner in the latest version of the PoA-DD.

The validation team states that the identified boundary and the selected sources and gases are correctly justified by the project proponent in the PoA-DD, and they are in accordance with the methodology AMS-II.G version 04.

### 3.5.3 Baseline identification

According to the POA-DD and according to the methodology, AMS II.G version 4, the baseline scenario has been stated as *“It is assumed that in the absence of the project activity, the baseline scenario would be the use of fossil fuels for meeting similar thermal energy needs.”* The validation team considers this baseline scenario correctly stated and in accordance with the documentation reviewed entitled: Haiti: Strategy to alleviate the pressure of Fuel Demand on National Woodfuel Resources; ESMAP, 2007 [20]. Therefore, the baseline determination is considered as transparent and reasonable.

### 3.5.4 Algorithms and/or formulae used to determine emission reductions

In the validation team’s opinion the emission reductions are estimated using the same formulae as the relevant methodology. The default values come from the applied methodology, as it is recommended in the methodology, and the veracity of the values used has been proven with the technical documents of the first CPA.

$ER_y = B_{y,savings} * f_{NRB,y} * NCV_{biomass} * EF_{projected\_fossilfuel}$
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$ER_y$  = Emission reduction during the year y in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)

$B_{y,savings}$  = Quantity of woody biomass that is saved by the project activity in tonne

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$f_{NRB,y}$  = Fraction of woody biomass saved by the project activity in year  $y$  that can be established as non-renewable biomass. Determined ex-ante.

$NCV_{biomass}$  = Net Calorific value of the non-renewable woody biomass that is substituted (IPCC default value for wood fuel, 0.015 TJ/tonne)

$EF_{projected\ fossil\ fuel}$  = Emission factor for the substitution of non-renewable woody biomass by similar consumers. Use the default value of 81.6 tCO<sub>2</sub>/TJ specified in AMS.II.G ver. 4 methodology.

### 1. $B_{y,savings}$

The quantity of woody biomass ( $I$ ) that is saved in tonnes has been calculated using option 2 of the applied methodology:

$$\text{Option 2: } B_{y,savings} = B_{old} \cdot \left(1 - \frac{\eta_{old}}{\eta_{new}}\right)$$

Where:

$\eta_{new}$  = Efficiency of the system being deployed as part of the project activity (fraction), as determined using the Water Boiling Test (WBT) protocol. The calculation has been based on a study conducted by Lawrence Berkeley National Laboratory (LBNL) in April 2010 [21]. The D&E EcoRecho stove was one of the five charcoal stoves tested at the LBNL stove testing facility using a modified form of version 3 of the Shell Foundation Household Energy Project WBT [22]. The stove was tested for time to boil, thermal efficiency, specific fuel consumption, and emission of CO, CO<sub>2</sub>, and the ratio of CO/CO<sub>2</sub>. Nevertheless, the study conducted by LBNL did not identify in their final report which type of stove was tested. Therefore, in January 2012, additional testing was conducted by Colorado State University (CSU) [23] on both the large and medium sized stoves using replicate samples and a modified form of version 3 of the Shell Foundation Household Energy Project WBT, identified as the Stove Manufacturers Emission & Performance Test Protocol (EPTP) [24]. The test results for thermal efficiency are included in the POA-DD in a clear and consistent manner. The results of the second study were used for the ex-ante emission reduction calculation since they were further realistic and conservative. For the monitoring of the CPAs, additional testing will be conducted upon commissioning of the new stove manufacturing process.

$\eta_{old}$  = Efficiency of the system being replaced. A default value of 0.10 is used for the efficiency of conventional systems, as allowed by the methodology if the replaced system is a three stone fire, or a conventional system with no improved combustion air supply or flue gas ventilation system. Taken into account that the traditional stoves in Haiti include the Recho Tol (made of tin or aluminum) and the Recho Fer (made of iron or steel). A modification of the Recho Tol, called the Recho Mirak, is also in use in Port-au-Prince but is much less common. The Recho Mirak, which translates to "miracle stove," is a type of efficient stove. However, the Recho Mirak is all artisan-made in small batches, and the quality (i.e., efficiency) tends to be highly variable from stove to stove. The project activity will only be replacing the

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Recho Tol and Recho Fer charcoal stoves not the Recho Mirak, which can be considered as an efficient stove. Furthermore a study conducted by ESMAP (provided to the validation team as it has been previously detailed) found that the Recho Mirak stove almost disappeared from the market after successfully selling 20,000 units during the promotional phase.

$B_{old}$  = Quantity of woody biomass used in the absence of the project activity in tonne/yr.  $B_{old}$  will be determined in all CPAs using option (a) of the methodology based on the number of stoves sold and the average annual charcoal consumption per stove (tonnes/year). Nevertheless, in order to be further conservative, it has been included an adjustment to account for the fraction of stoves sold that remain in use during the monitoring period, fraction of replaced traditional stoves that have been disposed and are no longer in use, the period that the stove is in operation and for leakage. The formulae is described as:

$$B_{old} = NS_{CP} * f_{trad-unused} * SOF * Q_{biomass} * SOP * LAF$$

Where,

$NS_{CP}$  = Total number of systems (i.e., stoves) in operation during the monitoring period (number).

$f_{trad-unused}$  = Fraction of replaced traditional stoves either disposed and not in use during the monitoring period, estimated from annual monitoring survey.

$SOF$  = Stove operational fraction, which is estimated from annual monitoring at the level of the CPA of a sample of households that have purchased EcoRecho stoves to determine the fraction of the stoves sold under the umbrella of the CPAs that continue to be used.

$Q_{biomass}$  = Average annual biomass consumption per traditional stove (tonne/stove-year).

$SOP$  = Stove operating period, calculated during the monitoring period (years).

$LAF$  = Leakage Adjustment Factor. The Net to gross Adjustment factor of 0.95 is applied in accordance with paragraphs 13 and 23 of the AMS.II.G version 4 methodology.

The adjustment is considered appropriate since it is conservative and calculations are correct as applicable to the proposed programme of activities, and will result in an accurate and conservative estimate of the emission reductions.

The obtaining of the different parameters involved in the calculation of  $B_{old}$  is following detailed:

- The determination of  $f_{trad-unused}$  is determined ex-post based on a survey. It is an estimate of the fraction of replaced traditional stoves either disposed of or not in use during the monitoring period of the respective CPA. The monitoring plan involves checking a representative sample of households that have purchased the EcoRecho stoves. A monitoring survey flowchart with detailed criteria and follow-up questions for identifying usage of traditional stoves, as specified in Appendix 5 of the PoA-DD, will be used to determine if any traditional stoves that should have been retired are still being used, which would require the charcoal consumption of those stoves to be excluded

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from  $B_{old}$ . The ratio of the number of replaced traditional stoves that are disposed or not being used to the total number of stoves in the sample of households sampled during the monitoring period is used to obtain  $f_{trad-unused}$ , which will be applied to correct the  $NS_{CP}$ .

- The determination of **SOF** will be also made based on the annual monitoring survey. It is the fraction of efficient EcoRecho stoves sold under the umbrella of a CPA that continues to be used during the monitoring period. From the sample of households chosen for the annual survey, the ratio of the number of EcoRecho stoves sold that continue to be in operation, as intended under to the CPA, to the total number of stoves sold in the sample of households monitored during the crediting period is used to obtain SOF, which will be applied to correct the NSCP that is used to calculate  $B_{old}$ .
- The determination of  **$Q_{biomass}$**  has been based on a survey made in August 2011 to 300 households in the three major sections of the Commune of Port-au-Prince. Based on the results of the survey, the household charcoal consumption was 180 pounds per month. In order to obtain charcoal consumption per stove, the average number of stoves in a household, which was found to be 2 stoves per household, was used, by dividing household charcoal consumption by number of stoves in a household. The weighted average charcoal consumption per stove was estimated to be 91 pounds per month per stove which was considered representative of Haiti's urban areas. For purpose of this PoA, the plan is to use the average charcoal consumption,  $Q_{biomass}$  of 3.31 tonne/yr-stove (i.e., 91 lb/month/[lb/2.2 kg]\*[12 months/yr]/[tonne/1000 kg]\*6.67 = 3.31 tonne per year) for determining  $B_{old}$  and for calculating emission reductions applicable to stoves sold within the metropolitan Port-au-Prince area. In the future, as dissemination of stoves extend beyond the Port-au-Prince urban areas, it is contemplated that additional HHBS will be conducted, as needed at the CPA level, if it is determined that a more accurate estimate of  $B_{old}$  is needed.
- **SOP** is the calculated average stove operating period during a specified monitoring period. Specifically, an additional formula is included as follows:

The term SOP is expressed as follows:

$$SOP = \frac{\sum_{i=1}^{NS_{CP}} SOP_i}{NS_{CP}}$$

where,

**SOP** = Average operating period considering all the systems in operation during the monitoring period (i.e., average operating period of the  $NS_{CP}$  stoves)

**i** = Number of stoves from 1 to  $NS_{CP}$

**SOP<sub>i</sub>** = The time period that the  $i^{th}$  stove in the group has been operational during the monitoring period (i.e., from the purchase date or beginning of a monitoring period to the end of the monitoring period or end of the stove life time). This parameter is determined for each of the  $NS_{CP}$  stoves based on the number of days that the stove was operating during the monitoring

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period divided by 365. This calculation is considered conservative and in accordance with the applied methodology.

**2.  $F_{NR,y}$**

Taken into account the studies consulted and detailed in the "References" section, it can be surmised that the majority of the woody biomass sourced for charcoal production is non-renewable. In order to quantify the non-renewable biomass fraction, values ascribed to Haiti on a national basis will be applied in the CPAs, as provided in the 2010 FAO Global Forest Resource assessment and EB 67, Annex 22 – Default values of fraction of non-renewable biomass for least developed countries and small island developing States [25]. As specified by EB 67, Annex 22, the following formulae will be applied:

$$f_{NR,y} = NRB/(NRB+DRB)$$

Where,

NRB = Non-Renewable Biomass

DRB = Demonstrably Renewable Biomass

Therefore, the calculation of these parameters is in accordance with the applied methodology, and the assumptions made are considered conservative and supported by adequate documented references.

Parameters determined ex-ante

- $B_{old}$ : Quantity of woody biomass used in the absence of the project activity in tones.
- $\pi_{old}$ : Efficiency of the system being replaced.
- $\eta_{new}$ : Efficiency of the system being deployed.
- $f_{NR,y}$ : Fraction of woody biomass that can be established as non-renewable biomass.

CPA Calculation spreadsheets have been provided to the AENOR validation team. Thus, AENOR has validated that data and assumptions considered and listed in the PoA-DD and CPA spreadsheet calculations are consistent with stated data. Furthermore, AENOR has reproduced the calculation in a clear and transparent manner to obtain the same results, which confirms that the baseline methodology has been correctly applied.

Considering the estimated inputs values, the estimated ex-ante annual average emission reductions of the CPA01 is 41,227 tCO<sub>2</sub>, which represents a reasonable estimation using the assumptions given by the CPA-DD and the PoA-DD as it is detailed in the following table:



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Parameter	Description		Value	Data sources
$B_{y,savings}$	Determination of the quantity of woody biomass that is saved through the CPA in period y		35,085 t/yr	$B_{old} * 1 (\pi_{old} / \pi_{new})$ Option (2) of the applied methodology AMS.II.G.
$\eta_{old}$	Efficiency of the baseline system being replaced		0.10	Default value provided in the applied methodology AMS.II.G and as it has been previously detailed it is supported by evidence.
$\eta_{new}$	Efficiency of the system being deployed using the Water Boiling Test (WBT) protocol.		28.24	- CSU ecoRecho testing study. Based on weighted average as it is stated in the applied methodology (20% large/80%medium): $\{(0.244 * P_L/100)+(0.292 * P_M/100)\} / \{(P_L+P_M)/100\}$
$B_{old}$	Quantity of woody biomass used in the absence of the project activity in tones/y		54,321 t/y	$NS_{CP} * f_{trad-unused} * SOF * Q_{biomass} * SOP * LAF$
	$NS_{CP}$	Maximum number of stoves that can be included in a CPA such that the energy savings do not exceed the small-scale threshold limit	Total number: 20,200 16,160 medium model 4,040 large model	Ex-ante calculation of maximum number of stoves corresponding to the small-scale threshold.
	$f_{trad-unused}$	Fraction of	0.95	Ex-ante estimation.

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		replaced traditional stoves disposed or not in use		
	<b>SOF</b>	Stove Operational Fraction representing the fraction of stoves in operation	0.90	Ex-ante Estimation.  It will be determined, during the monitoring, based on a sampling of households and customer surveys.
	<b>Q<sub>biomass</sub></b>	Average annual consumption of woody biomass per stove	3.31 t/y	<b>Q<sub>charcoal</sub> * f<sub>Wood to Charcoal</sub></b> Q <sub>charcoal</sub> = Average annual consumption of charcoal per stove 0.50 t/(y-stove) f <sub>Wood to Charcoal</sub> = Ratio of mass (6.67 kg of wood used to the mass /kg of charcoal produced) <i>- Household Biomass Survey for urban areas of Port-au-Prince.</i> <i>- 2007 ESMAP report, "Haiti Strategy to Alleviate the Pressure of Fuel Demand"</i>
	<b>SOP</b>	Stove Operating Period representing the length of monitoring period	1 y	Ex-ante Estimation
	<b>LAF</b>	Leakage Adjustment Factor or Net-to- gross adjustment factor for NRB Leakage	0.95	As per AMS.II.G./Version 04, B <sub>old</sub> is multiplied by 0.95 a net to gross adjustment factor of to account for leakages.
<b>(f<sub>NRB,y</sub>)</b>	<b>Fraction of woody biomass saved by the project activity in period y that can be</b>		<b>96%.</b>	<b>EB 67, Annex 22</b>

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	<b>established as non-renewable biomass</b>		
<b>NCV<sub>biomass</sub></b>	<b>Net calorific value of the non-renewable woody biomass that is substituted.</b>	<b>0.015 TJ/tonne</b>	<b>IPCC default for wood fuel in accordance with AMS II.G version 4.</b>
<b>EF<sub>projected_fossilfuel</sub></b>	<b>Emission factor for the substitution of non-renewable woody biomass by similar consumers</b>	<b>81.6 tCO<sub>2</sub>/TJ</b>	<b>As per the methodology AMS.II.G./Version 04</b>

Therefore, AENOR confirms that all assumptions and data including their references and sources used by the PP are listed in the PoA-DD. Furthermore, all documentation used by project participant as the basis for assumptions and source of data is correctly quoted and interpreted in the PDD and all values used in the PoA-DD are considered reasonable in the context of the proposed CDM project activity.

### 3.6 Additionality

#### 3.6.1 Starting date of the programme of activities and prior consideration of the CDM

The starting date (13/07/2012) is determined in compliance with paragraph 159 of the applicable version of the “Clean development mechanism project standard (version 03.0)” /26/, since the identified starting date is the date of commencement of global stakeholder consultation conducted by the AENOR.

Regarding the prior consideration of the CDM, although the POA-DD mentions the paragraph 26 of the “Clean development mechanism project standard”, the paragraph 29 of the same document states that the requirements regarding the demonstration of the prior consideration do not apply to CDM PoAs. The validation team has considered that the description of the prior consideration is in line with the UNFCCC requirements taken into consideration that the paragraph 194 of the “Validation and Verification Standard (version 03.0)”, states that the prior consideration of the POA shall be evaluated. Therefore, the most conservative option has been used to demonstrate that the CDM was taken in consideration since the beginning of the POA. Taken into account that the start date is after 2 August 2008, and the starting date is the date of publication of the POA in the UNFCCC website, the requirement stated in the referred paragraph of the Validation and Verification Standard is completely fulfilled.

Furthermore, in order to reinforce the argument, the Coordinating Entity has demonstrated that the CDM was considered since the beginning as it is clearly stated in the POA-DD, providing a description of the different milestones involved:

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Event	Date
<b>Stakeholders Consultation</b>	18 December 2009
<b>Start of pilot phase</b>	01 June 2010
<b>Date of notification of intent to seek CDM status /27/</b>	04 February 2011
<b>Household Biomass Survey (HHBS) completed in Port-au-Prince /28/</b>	25 September 2011
<b>No Objection Letter from DNA /29/</b>	17 January 2012
<b>EcoRecho Stove Testing /30/</b>	19 February 2012
<b>Global stakeholder consultation through posting of the PoA on the UNFCCC website; also the start date of the PoA</b>	13 July 2012
<b>Validation site visit to Haiti (DOE, D&amp;E and BC02)</b>	26-29 November 2012
<b>Validation Completion of PoA-DD/CPA001-DD by DOE</b>	01 March 2013 (Anticipated)
<b>Planned implementation of stove manufacturing machinery for industrial scale-up of the project</b>	Will commence after DOE Validation is completed.

The validation team has checked that the timeline of the project is consistent with the notifications. According to the schedule and the evidence proposed by the PP and assessed by the validation team, it can be concluded that the issue of prior consideration of the CDM was a major element in assessing that the CDM benefits were considered necessary in the decision to undertake the project as a CDM Programme of Activities. Therefore, the proposed CDM Programme of Activities complies with the requirements of the applicable documentation of the UNFCCC.

### 3.6.1.1 Additionality of the Programme of Activities

The additionality of the programme has been presented in section A.4.3 of the PoA-DD. The approach used in the PoA-DD has been assessed initially through the document review followed by on-site discussions. Finally, the data, rationales, assumptions, justifications, and documentation provided have been verified using local knowledge as well as sectoral and financial expertise.

The proposed PoA is a voluntary action by the coordinating/managing entity ,D&E Green Enterprises (Private Entity) . Based on the submitted documents and substantiation it is evident that this voluntary coordinated action would not be implemented in the absence of the PoA.

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It has been clearly demonstrated that there is no mandatory policy or regulation in the host country enforcing the implementation of efficient cook stoves in rural or urban areas in Haiti, and no such regulations are foreseeable. This was confirmed based on the on-site interviews and the host country experience of the audit team.

In addition, the PoA-DD establishes in Sections A.4.2.2 (eligibility criteria) and E.5 the conditions that ensure that CPAs meet the requirements pertaining to the demonstration of the additionality.

The following criteria has been chosen to demonstrate CPA additionality, taking into account the methodology and scale that apply to this PoA:

- *The CME must demonstrate that each CPA of the PoA meets the additionality requirements by demonstrating that for each CPA: (i) procedures are included to ensure that the thermal savings from each CPA of the PoA is limited to 180 GWh per annum and; (ii) the thermal energy savings from each EcoRecho stove disseminated under a CPA of the PoA is not greater than 5% of the SSC threshold of 180 GWh per annum*

### **3.6.1.2 Additionality of a typical SSC-CPA**

AENOR validation team has assessed the additionality of the proposed PoA in accordance with the “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities” (EB 65 Annex 3). As per para.9 “PoAs that consist of one as CPAs shall include eligibility criteria derived from all the relevant requirements of Guidelines for demonstrating additionality of small-scale project activities.”

The eligibility criteria has been set as “the maximum annual thermal energy savings from each EcoRecho stove disseminated under a CPA of the PoA is not greater than 5% of the SSC threshold of 180 GWh per annum “9000 MWh per year).

According to Para.2(c) of Guidelines On The Demonstration of Additionality of Small-Scale Project Activities Version 9.0(EB68 Ann27), if “Project activities solely composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM thresholds”, the Project will be defined as automatically additional.

The CPAs to be included in the PoA are distribution of EcoRecho brand biomass fueled stoves with improved thermal efficiency compared to the baseline (i.e., traditional charcoal burning stove). If the CPAs comply with the eligibility criteria, the CPAs will be automatically additional. Complying with Para.11 of the “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities”, AENOR validation team confirms that CME demonstrated that compliance with the additionality-related eligibility criteria set in the PoA design document will ensure that all the relevant additionality criteria have been met.

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### **3.7 Monitoring Plan**

#### **3.7.1 Compliance of the monitoring plan with the approved methodology**

As stated above, the PoA and CPAs use the approved methodology “AMS II.G. “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass - Version 04”.

Monitoring will consist of checking the efficiency of all appliances or a representative sample thereof, annually to ensure that they are still operating at the specified efficiency ( $\eta_{\text{new}}$ ) or replaced by an equivalent in-service appliance. Where replacements are made, monitoring shall also ensure that the efficiency of the new appliances is similar to the appliances being replaced.

The methodology states “*Monitoring shall consist of checking the efficiency of all appliances or a representative sample thereof, at least once every two years (biennial) to ensure that they are still operating or are replaced by an equivalent in service appliance*”. The Coordinating Entity has proposed annual periodicity, therefore, it is considered correct and conservative.

In addition, monitoring shall ensure that:

- a) *Either the replaced low efficiency appliances are disposed of and not used within the boundary or within the region; or*
- b) *If baseline stoves continue to be used, monitoring shall ensure that the fuel-wood consumption of those stoves is excluded from  $B_{\text{old}}$ .*

According to the methodology, the annual monitoring of the percentage of stoves in use, as well as an annual check of the operating efficiency will be performed for a representative sample. Sample size will be chosen for a 90/10 precision (90% confidence interval and 10% margin of error); in cases where survey results indicate that 90/10 precision is not achieved, the lower bound of a 90% confidence interval of the parameter value may be chosen as an alternative to repeating the survey efforts to achieve a 90/10 precision. Sampling procedure defined by the PP is in line with the methodology and with main requirements of AENOR has validated that the above mentioned sampling plan fulfill completely all the requirements of the Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities (EB 69, Annex 4.)

All parameters to be monitored have been included in the section B.7.2 and Appendix 5 of the POA-DD and are following described:

- **NS<sub>CP</sub>: Maximum number of stoves in operation during the monitoring period.** All stoves will have an identification number, and the information of each of them will be stored in the EDAS system. The EDAS will be developed as a Relational Database Management System (RDBMS) to meet the

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core requirements of the monitoring plan inclusive of the business process requirements of the CME to manufacture, sell and distribute the EcoRecho stoves. EDAS will hold all records of stove transactions following the business process rules laid out by the CME, reflecting the lifecycle of the stove from stove manufacturing at the production facility, through sales and distribution to the end user, and till its retirement. With the goal of specifically meeting the requirements of the monitoring plan, the EDAS will serve as an information repository for storing profiles of each stove manufactured, relevant data on all customers and distributors, sales transaction data and monitoring records pertaining to each stove sold under the CDM project. Procedures will be developed within EDAS to ensure that data monitored and required for verification and CER issuance is maintained and archived electronically for two years after the end of the crediting period or the last issuance of CERs, whichever occurs later.

The database structure will allow efficient data retrieval using the stove ID as the primary key to allow tracking of its lifecycle from manufacturing to final retiring of the stove. All CPA stove sale transactions across the nation, including internal movement of stove, replacement of defective stove, or any other transaction data will be captured in the EDAS. The back-end functionality of the RDBMS will make the EDAS a tool for monitoring tracking and retrieving data needed to fully support the tracking, monitoring and verification requirements of the CPAs under this PoA. It is considered that using EDAS system as it is detailed in Hand Book [33]/[32] provided to the validation team allow to monitor the number of stoves in operation in each CPA in accordance with the applied methodology.

- **$\eta_{new}$ : Annual stove testing for thermal efficiency using the WBT or equivalent protocol.** In conformance with the methodology, the thermal efficiency will be obtained on a representative number of operational EcoRecho stoves..
- **SOF: Stove Operational Fraction.** Is the statistically estimated fraction of EcoRecho stoves still in operation from among the total number of stoves sold in a given monitoring period. The SOF will be determined based on annual sampling of households. Details of the annual on-site household survey are provided in Appendix 5 of the POA-DD.
- **$f_{trad-unused}$ : Fraction of replaced traditional stoves disposed or not in use.** Is the statistically reliable estimate of the fraction of replaced traditional stoves that have been disposed or not in use (i.e., replaced by EcoRecho stoves) in a given monitoring period. It will be determined as the ratio of replaced/disposed/not-in-use traditional stoves to the total number of EcoRecho stoves sold during the monitoring period and will be based on annual sampling of households and customer surveys to meet the reliability criteria of 90/10 confidence/precision for this parameter. Based on the HHBS survey conducted by D&E in 2011, it was found that it is very common to find more than one stove

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per household and it is likely that the consumer will not replace all stoves at once. To find a solution, customer attestation that the replaced traditional stove will not be used will be obtained as a pre-condition to the sale of the EcoRecho stove. The attestation will not be a prerequisite for the distributor to sell a EcoRecho stove to the customer; however, only new and returning EcoRecho stove customers that attest to prior use of a traditional stove and agree that the replaced traditional stove will be discontinued and discarded will have their EcoRecho stoves listed and counted (NSCP) under this PoA, and be subject to the annual monitoring survey.

According to AMS.II.G (Version 04) requirements, the monitoring Plan provides the relevant data necessary for determine the baseline emissions frequency and monitoring information regarding responsibility for controlling and reporting during the crediting period. Therefore, in the opinion of the AENOR team, all necessary parameters required by the selected approved methodology are contained in the monitoring plan. They are clearly described and the means of monitoring described in the plan complies with the requirements of the methodology. Thus, the monitoring plan is in compliance with the requirements of the methodology.

The coordinating entity has opted to implement a verification system for the DOE that will individually verify each CPA. The validation team has checked that the project database managed by the coordinating entity and the PP includes the specific data-set that can be directly attributed to each of the CPAs within the PoA, thereby allowing unambiguous determination of the emission reductions attributable to each CPA.

AENOR confirms that the parameter required for the selected approved methodology has been stated in the monitoring plan of the PoA-DD and the monitoring plan contains all necessary parameters, which are clearly described, and that the means of monitoring described in the plan complies with the methodology's requirements.

According to EB 69 Annex 4 the proposed sampling plan has been validated by AENOR to determine whether it will provide parameter value estimates in an unbiased and reliable manner including determining:

- Whether the proposed sample size and sampling method is adequate to achieve the minimum confidence/ precision requirements. DOEs shall be able to reproduce the sample size calculation in order to validate the proposed sample size;
- Whether the proposed sampling plan will ensure that samples are randomly selected and are representative of the population.

AENOR confirms that the sampling requirements are defined in line with the applicable guidance (EB 69 Annex 4) as shown in the tables below showing the generic approach and then the applied sampling plan for the first CPA.

AENOR confirms that the simple random sampling approach ensures the accuracy of the sampling and the way how the assumptions are defined (homogenous, environmental conditions and cooking habits) is



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correct as it is based on previous studies and local knowledge of the CME. AENOR has checked the formula and parameters used for the sample size calculations in the PoA-DD and confirms them as correct, as shown in the table below.

### ***Sampling design (PoA/ CPA)***

<b>Objective</b>	<b>Determine how many days the systems have been operating during the last year</b>
Reliability requirements	90/10 confidence/precision If a single sampling plan (EB 69, Annex 4, para 7 and 20) is applied this changes into 95/10.
Target population	The population of user of the systems in the CPA
Sampling method	The sampling method for all parameters will be based on a simple random sampling approach, considering that simple random sampling is most useful when the target population is relatively homogeneous. As stated earlier, each CPA will be subjected to separate sampling. Further, the target population for each CPA will be similar i.e., similar socioeconomic status and stove category (household stoves or commercial stoves). In addition, for each stove model, representing a homogeneous target population, a representative number of operating stoves will be randomly sampled and tested for thermal efficiency
Sample size	Sample size is adequate to achieve the minimum confidence/precision requirements, if sample size is calculated properly following procedures and formulas in PoA DD.
Field	The data collection/measurement method is likely to provide reliable data given the nature of the parameters of interest:  The methods of data collection are clear and unambiguous. Trained persons will visit households and record the efficiency of cook stoves, or number of operational stoves in documents. There are no questions that could be subject to local respondent error due to sensitivity.
Sampling frame	The population is clear from Target Population description in the PoA-DD. For a specific CPA, sampling frame are households from which sample will be selected. AENOR confirms that sampling frame is appropriate
QA/QC	Quality control and assurance strategy is documented in the sample plan, including training of field personnel, provisions for maximizing response rates, and documenting out-of-population case. The stoves tested will be recorded by stove ID and CPA number and the results will be recorded in the EDAS for tracking and documented for use in ER calculations. As part of the quality assurance/quality control (QA/QC) program used by the stove manufacturing operation, the CME will be testing stoves for thermal efficiency as a check on the quality of newly manufactured stoves as well as to provide a comparison with the efficiencies of operational stoves tested during the annual monitoring
Analysis	The EDAS will serve as the repository for all the data associated with the CPAs under the PoA. This system will be used to automate the process of

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	calculating the sample sizes required for each monitoring period
Implementation	The Sampling plan defines the schedule for implementing the sampling effort and identifies the skills and resources required for data collection and the analyses.

As stated above the precision and expected variance will be established in accordance with the recommended values by UNFCCC, 90% precision and 10% expected variance.

- Confidence interval=1.645, corresponding to 90% confidence interval, (90% confidence interval and a 10% margin of error (90/10).)
- Population proportion, set at 0. 70% for SOF and 75% for  $f_{\text{trad-unused}}$ . This has been deemed acceptable, due to the characteristics of the PoA. Families will buy the cook stoves, and it can be assumed that once the expenditure has been made, the family will use the cook stove.
- Error margin; 10% (90% confidence interval and a 10% margin of error (90/10).)

A minimum sample size of 30 is used if the calculated sample size is less than 30, which is in line with the Standard.

AENOR has validated that the Sampling Plan presented in the PoA-DD includes the objectives, data to be collected, target population, sampling frame, sample method, sample size, procedures for administering data collection and minimizing errors, and implementation details. Project Activities and Programme of Activities (EB 69, Annex 4).

AENOR by its experience and the assessment of the documentation considers:

- The sampling plan presents a reasonable approach for obtaining unbiased, reliable estimates of the variables. The monitoring will be carried out through a survey and the sample size will be selected following a 90% confidence and 10% margin of error. This requirements are in accordance with the requirements set forth in the methodology therefore the approach is considered correct.
- The sampling plan will ensure that samples are randomly selected and are representative of the population. The random simple sampling will be applied and the precision will be established in accordance with recommended values by UNFCCC (90/10).
- The population is clear from the Target Population description. The target population description will be the households in which the cookstoves have been installed, identified by the database of the CME, therefore AENOR considers the target population correct.
- The proposed sampling approach is clear. A simple random sampling will be applied. Therefore AENOR considers that the sampling approach is clear.
- The sample is representative. AENOR considers that the proposed sample size calculation and sampling method is adequate to achieve the minimum confidence/precision requirements. The data collection/measurement method is likely to provide reliable data. The validation team confirms that the methods of data collection are clear and unambiguous, and do not include any question that could be subject to measurement error.
- Training will be given to staff responsible for the data collection system and a quality control and assurance strategy plan will be established, therefore AENOR considers it correct. The validation team confirms that the sample database will be kept electronically as well as original hard copies. The sample will be selected randomly. The validation team confirms that the described QA/QC

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procedures are adequate to handle any missing data, wrong data or uncertainty, and ensure a real, measurable and conservative calculation of emission reductions from a CPA.

- The procedures for the data measurements are well defined. As stated above a strategy plan will be established. This strategy includes a planning phase in which a clear definition of the target population, sampling frame and sample size are determined
- The frame contains the information necessary to implement the sampling approach. The parameters to be monitored within each CPA will depend on the methodology applied.

On the other hand, roles and responsibilities, training actions, archiving, measuring and calculation procedures, equipment details, and calibration requirements are clearly mentioned in the PoA-DD.

Therefore, in opinion of the AENOR team, all necessary parameters required by the selected approved methodologies are contained in the monitoring plan. They are clearly described and comply with the requirements of the methodology. The monitoring of the parameters involved in the emission reductions has been established in a transparent and clear way. Thus, AENOR confirms the monitoring plan is in compliance with the requirements of the applied methodology, the Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities (EB 69, Annex 4) and the Standard for Demonstration of Additionality, Development of Eligibility Criteria and application of Multiple Methodologies for Programme of Activities.

### **3.7.2 Implementation of the Monitoring Plan**

The implementation of the Monitoring Plan will be based on two basic elements:

- **Annual On-Site Survey Design:** EDAS will be used to randomly select customers/households to be surveyed. Approximately 20% more customers/households may be chosen and kept in reserve for later use if the some of the selected households cannot be reached or do not provide adequate responses to the questionnaires during the survey or the data cannot be validated. The survey flow chart, included in Appendix 5 of the POA-DD will provide specific procedures to follow in order to determine the fraction of EcoRecho stoves still in operation (SOF) and the fraction of replaced traditional stoves that meet the criterion of non-usage during the monitoring period (ftrad-unused). A questionnaire in creole will also be prepared for recording answers and obtaining any affirmations with signatures from the customer. In scenarios where the survey cannot be completed for the selected household, additional households will be selected until the required reliability criteria are achieved. The monitoring survey flow chart is provided below. The specific procedures that the monitoring team uses for the survey could be revised to improve efficiency and accuracy in data collection, as site specific conditions are identified that were not contemplated during the development of the PoA.

If, during the monitoring period, the monitoring survey of a household does not demonstrate or provide evidence of any usage of the EcoRecho stove replacing the traditional stove, or the EcoRecho stove is not operational, the stove(s) in that household that is in question will not be counted for purposes of determining the ER.

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The CME will also facilitate a training programme for monitoring team members prior to completion of annual surveys imparting technical knowledge of the working principles of EcoRecho stoves, manufacturer's warranty and replacement policy, monitoring procedures and data collection/management techniques. The CME has already organized awareness programmes for local people to make them aware of the benefits of EcoRecho stoves and its long term positive impact on the socio-economic and environmental conditions in Haiti. The validation team, during the on site visit could crosscheck the consistency of this information.

- **Electronic Data Archival System (EDAS) and QA/QC procedures:** EDAS will be developed as a Relational Database Management System (RDBMS) and will hold all records of stove transactions reflecting the lifecycle of the stove from stove manufacturing at the production facility, through sales and distribution to the end user, and till its retirement. Procedures will be developed within EDAS to ensure that data monitored and required for verification and CER issuance is maintained and archived electronically for two years after the end of the crediting period or the last issuance of CERs, whichever occurs later. The database structure will allow efficient data retrieval using the stove ID as the primary key to allow tracking of its lifecycle from manufacturing to final retiring of the stove. All CPA stove sale transactions across the nation, including internal movement of stove, replacement of defective stove, or any other transaction data will be captured in the EDAS

The data collected through monitoring will be used for ex-post calculation of the actual emission reductions resulting from the implementation of the proposed project activity.

The CME will appoint a CDM Project Team, who will be entrusted with the responsibilities of Monitoring Project activity. This CDM Project Team will:

- Provide assistance on the proper operation and use of EcoRecho stoves providing clear and unequivocal guidance on the requirement to discontinue use of traditional stoves in those households.
- Train on the appropriate use of the technology to avoid unanticipated accidents and ensure safe, efficient and prolonged functioning of the stoves.
- Conduct periodic monitoring as well as spot checks for collecting information on required parameters.

The coordinating entity will ensure that the baseline equipment will be disposed off as per para. 20 of AMS II. G through the signing of the attestation letter. This will be checked when the ecoRecho stove is delivered, and during the on site visits undertaken by the CDM Project team. This approach is acceptable since it is not mandatory to be signed, but, in this case the stove is not accounted.

The operational and management plan of the POA includes a description of the responsibilities, training actions, archiving, procedure reference, equipment details, frequency and maintenance needs, and this

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information is comprehensively detailed in the final PoA-DD. Appendix 5.4 of the POA-DD gives further detail of the monitoring process.

After the review of evidence provided by the coordinating entity and the interview with them, AENOR confirms that monitoring arrangements described in the monitoring plan are feasible within the programme design and that means considered for the implementation such as data handling and reporting, quality and assurance control procedures, are sufficient to ensure that the emissions achieved resulting from the proposed CPAs can be reported ex post and verified.

The ex-post emission reduction calculation bases on the above mentioned monitoring parameters and data and parameters that are available at validation. The PoA-DD and especially the monitoring plan are in compliance with the applied monitoring methodology and validity of the monitoring plan is therefore confirmed.

### **3.8 Comments by Local Stakeholders**

The local stakeholder consultation is carried out at PoA level. The stakeholder consultation meeting was conducted at the Hotel le Plaza in Port-au-Prince on 18/11/2009. The meeting was carried out in accordance with the Gold Standard guidelines [33].

The invitation letters [34] were sent to stakeholders such as the representatives of the government, local officials and others. 75 people attended the meeting.

The invitation process for the local stakeholder conference was made in accordance with the guidelines of GS toolkit [35], therefore one hundred and ninety five invitations were sent to local NGOs, international NGOs, members of the church, policy makers, the national DNA and GS expert and supporters.

The stakeholders were contacted through formal invitation letters, emails, phone calls and/or verbal invitations. The stakeholder conference was not advertised in newspapers because the groups that were being targeted did not read the local newspaper regularly.

The meeting lasted three hours where the stakeholders were provided with questionnaires for their remarks. It was evident from the questions raised by stakeholders, that there was no strong opposition against the project activity.

A summary of the content of the meeting and the minutes of them has been provided to the validation team through the Local Stakeholder Consultation Report [36]. During the on-site visit, the AENOR team held interviews with some of those local stakeholders affected by the project activity in order to learn their opinions about the implementation of the project. By means of documents reviewed and the interviews performed, AENOR considers that the summary of the comments received during the consultation process, along with the PPs responses included in section D.2 of the CPA-DD is complete.

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### **3.9 Environmental Impacts**

The analysis of environmental impacts is established at the PoA level. The PoA consist of distribution and installation of efficient cooking stoves and it is not required to undertake an Environmental Impact Assessment according to Haitian environmental law (*Des Lois Haitiens de l'environnement* – October 1995 /37/). The programme of activities results in a decreased of wood consumption so there are not negative environmental impacts.

During the on site visit, the validation team checked the positive impacts of the efficient stoves. The impacts are following described:

- The PoA will improve the local environment by reducing deforestation so as to allow natural recovery of forests in and around the project area.
- The PoA will hopefully improve the quality of life by reducing indoor air pollution:
- Reduced deforestation rate as a result of the PoA may open up opportunities to replenish depleted forest cover through reforestation, thus creating a carbon sink. In the immediate future, the PoA will lower GHG emissions from a reduction in the quantity of charcoal burned in Haitian households where traditional stoves are to be replaced. This in turn will reduce global warming by reducing the overall carbon dioxide emission levels released to the atmosphere.

Documentacion was provided to the validation team, and all of them were in accordance with provisions detailed in the POA-DD and the national regulation as well.

It can be concluded that the PPs have followed a correct analysis of environmental impacts in accordance with procedures as required by the host party.

In addition, AENOR confirms that the host party's DNA confirmed the project's contribution to the sustainable development of Haiti during the on site visit and through the approval letter.

## **4 SPECIFIC POA REQUIREMENTS**

### **4.1 Operational, Management and Verification Plan**

Management structure of the monitoring plan is defined in Section C of the POA-DD. Operational management and verification plan in the final PoA-DD is assessed to be appropriate for the purpose of the programme monitoring. The overall responsibility for the monitoring will be held by D&E (Managing Entity). Enel, the entity providing up-front financing for the PoA, and D&E will serve together as the joint focal point with responsibility for communicating with the Executive Board (EB) on matters relating to the distribution of CERs, along with the implementation of the project activity.

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The Management System has been developed in accordance with requirements of “*Standard for Demonstration of Additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities*” at the detail of each role and responsibility is clearly included in section C of the POA-DD.

The CME will be responsible for the stove manufacturing and distribution, and for collection the information of each CPA archiving it in the EDAS database. All information collected by the EDAS Database relating to Emission Reduction calculation will be processed by the CDM consultant and will be used in the development of the Monitoring Report. In addition, the CDM consultant will review the EDAS Database, data collection procedures, annual monitoring survey design and provide recommendation to the CME to facilitate improvements to the Management System.

The CME will develop and implement QA/QC procedures. The coordination of the annual management review, preparation of information for consideration during the review, and documentation and implementation of the decisions reached by the review is also made by the coordinating entity. The goal of the annual review is to improve the effectiveness and efficiency of management and operations. In addition, the CDM consultant will review the EDAS, data collection procedures, annual monitoring survey design and provide recommendation to the CME to facilitate improvements to the Management System.

On the other hand, the CME will be responsible for developing procedures to test a representative sample of stoves, randomly selected from stoves in operation to be measured for thermal efficiency using the latest version of the Water Boiling Test (WBT) or equivalent protocol.

Thus, since the management plan included in section C of the POA-DD clearly details the roles and responsibilities of each of the activities involved in the monitoring, the arrangements for training and capacity development for personnel are detailed as well, a procedure for technical review of inclusion of CPAs and to avoid double counting is prepared and measures for control documentation and continuous improvement are prepared, it is considered that the management plan is developed in accordance with paragraph 19 of the “*Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programmes of activities Standard*”.

## 4.2 Criteria for Inclusion of CDM Programme Activities

A complete list of CPA Eligibility Criteria has been set up in section B.2 Part I of the final PoA-DD and section D.5 of the CPA-DD, and is deemed appropriate and sufficient. Fourteen criteria are required for inclusion:

Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
1	Technological Requirement	The CPA must include distribution of EcoRecho brand biomass-fueled stoves with improved thermal efficiency compared to the baseline (i.e., traditional charcoal-burning stove) in accordance with the approved AMS.II.G, ver. 04. In particular, the thermal efficiency of the EcoRecho stove replacing the traditional stove must be greater than 20%.	WBT results will be provided, which includes data on thermal efficiency of EcoRecho stove(s) to be disseminated and included in a specific CPA.	This criterion will be verified using the WBT where the efficiency data are included. Therefore, the criterion is verifiable and it deems correct.
2	Boundary and location	CPA must be located within the geographical boundary of Haiti	<p>A signed contract between the CME and distribution organization will be provided, which will include a provision to limit the dissemination of EcoRecho stoves included in each CPA only to end users within the geographical boundary of Haiti.</p> <p>When a contract between the CME and the distributor has not yet been signed, the CME's self-declaration will be provided attesting that the EcoRecho stoves disseminated under each CPA will be located within the boundaries of Haiti to meet the eligibility criterion for CPA boundaries and location.</p>	This criterion will be verified assessing a CPA map or a description of the location. Therefore AENOR considers it correct.



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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
3	Avoiding double counting	CPA must implement procedures to ensure that double counting of emission reductions does not take place.	CME Handbook will be provided, which include specific procedures consistent with the PoA-DD requirements, to ensure each stove manufactured and disseminated under a CPA is assigned a unique identification number, along with a CPA number and recorded for tracking by an electronic recordkeeping system. Specifically, each stove that is manufactured is labeled or engraved with a unique identification (ID) number and assigned to a specific CPA. A database program will be set up to check and verify that stove identification numbers assigned to each stove remains unique. These measures will prevent double counting of CERs.	The CME Hand book has been provided and it is considered that the requirement is included into it, therefore, it is considered correct.
4.	Certified Emission Reduction (CER) Ownership	End users receiving the EcoRecho stove under the specific CPA will contractually cede their rights to claim and own emission reductions (ERs).	Purchase Receipt associated with sale of an EcoRecho stove included in a specific CPA will include a waiver signed by the customer ceding the rights to the ERs achieved through the use of the EcoRecho stove to the CME. The purchase receipt will only be available after stoves are disseminated.  Alternatively, prior to the date of purchase of an EcoRecho stove included in a specific CPA, the	Both possibilities are considered correct since both justify the ownership of the CERs, therefore, the criterion is considered verifiable and correct.

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
			CME's self-declaration will be provided attesting that the eligibility criterion for CER ownership will be met.	
5	SSC limit for CPA	Each CPA under the proposed PoA will remain under the small-scale threshold of 180 GWh per annum thermal energy savings throughout the crediting period of the CPA.	Excel spreadsheet will be provided, which includes ex-ante calculations that determine the maximum number of EcoRecho stoves that can be disseminated without exceeding the upper limit of the small-scale CDM threshold.	AENOR considers the criterion correct and verifiable.
6	Start Date	In accordance with EB 70, Annex 2 – CDM Project Standard, version 03.0, the CME shall determine the start date as the earliest date at which either the implementation/ or construction or real action of the CPA begins. In addition, the CME shall confirm that the start date of any proposed CDM CPA is on or after the start date of the PoA.	<p>The first Purchase Receipt signed by the customer for an EcoRecho stove that is included as part of the specific CPA will be provided, which constitutes implementation and/or start of the real action of the CPA.</p> <p>In situations where the CPA start date is estimated to be a future date after either the validation stage or the request for inclusion of the CPA, the CPA start date will still be the actual date of the first signed purchase receipt for an EcoRecho stove that is included as part of a specific CPA. The first signed purchase receipt that establishes the start date of a specific CPA will be available only after the CME receives funding to implement the PoA and the sale of the first</p>	Both possibilities are considered correct since both justify the first expenditure related to implementation of the CPA. Therefore, the establishment of this criterion is considered transparent, verifiable and in accordance with the VVS.

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
			EcoRecho stove under that CPA takes place.  Alternatively, prior to the date of purchase of the first EcoRecho stove, the CME's self-declaration will be provided attesting that the eligibility criteria for the CPA start date will be met.	
7	Applicability of methodology	Each CPA must demonstrate that non-renewable biomass has been used since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.	Example contract between the CME and distribution organization will be provided. Contract will include a provision to limit the dissemination of EcoRecho stoves included in each CPA only to end users within the geographical boundary of Haiti.	The Form has been provided and it is completely justified that only CPAs located in Haiti are going to be included. Therefore, the documentation used to justify that non-renewable biomass has been used since 31 December 1989 is appropriate for all CPAs. Correct criterion.
8	Additionality	The CME must demonstrate that each CPA of the PoA meets the additionality requirements by demonstrating that; (i) each CPA includes procedures to ensure that the thermal savings from each CPA is limited to 180GWh per annum and; (ii) the thermal energy savings from each EcoRecho stove disseminated under the respective CPA is not greater than 5% of the small-scale CDM threshold of 180 GWh per annum.	Excel spreadsheet, with all supporting evidence will be provided, which includes ex-ante calculations that determine the maximum number of EcoRecho stoves that can be disseminated without exceeding the small-scale threshold of 180 GWh savings per annum. In addition, the spreadsheet will also include calculations of thermal savings from each EcoRecho stove included as part of the specific CPA, to demonstrate savings from each stove is not greater than 5% of the	Documentation has been provided, and the establishment of this criterion is considered transparent and verifiable. Therefore, this criterion is correct.

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
			small-scale CDM threshold.  Alternatively, the CME's self-declaration will be provided attesting that the eligibility criteria for additionality will be met.	
9	PoA Specific Requirements	Each CPA of the PoA must comply with any PoA-specific requirements stipulated by the CME including any conditions related to undertaking stakeholder consultations and environmental impacts.  The project boundary for the PoA is the Republic of Haiti, therefore, as described in Part I, Section E and F of the PoA, environmental impacts and stakeholder consultation is conducted at the PoA level. Each CPA will meet this requirement provided that the project boundary for each CPA is within the Republic of Haiti.	An example of the contract between the CME and distribution organization will be provided. Contract will include a provision to limit the dissemination of EcoRecho stoves included in each CPA only to end users within the geographical boundary of Haiti. Therefore, stakeholder consultation and environmental impacts are not required at the CPA level.	This criterion is considered correct and documented.
10	Official Development Assistance (ODA) funding	To be included in the PoA, the CPA must provide an affirmation stating that public funding from Annex I parties, if any, does not result in a diversion of official development assistance (ODA).	No ODA funding is sought for the CPAs, but if ODA funding is sought and obtained for any specific CPA, affirmation obtained from parties providing such funding, in accordance with applicable provisions related to official development assistance in the Project standard will be provided.	This criterion is stated in accordance with the UNFCCC requirements.
11	Project Target Group	The PoA intends to disseminate efficient EcoRecho stoves to the low-	Additional Household Biomass Survey(s) will be conducted and provided	Household Biomass Surveys are considered adequate

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
		income population in the Republic of Haiti. Initial CPA is intended to replace the traditional stoves in the urban communes of Port-au-Prince, where the average consumption of charcoal has been determined through a Household Biomass Survey (HHBS) in 2010. In case, other CPAs are implemented in rural areas within the project boundary, where charcoal consumption may vary, CME must ensure that proper steps are taken to estimate the parameters involved in the estimation of Emission Reduction. In addition, each CPA must include procedures to ensure only traditional inefficient cook stoves are targeted for replacement by the improved efficient EcoRecho cook stove applicable under the CPA.	if required, to account for the difference in baseline biomass consumption between urban and rural households. The result of any new HHBS will be presented in the CPA-DD before inclusion in the PoA.  In addition, sample Purchase Receipt to be used by the specific CPA will be provided, which will include procedures to collect information on the type of stove customer is replacing. Only EcoRecho stoves that are sold to customer that are replacing traditional inefficient cook stoves will be included by the specific CPA for emission reduction.	to state the baseline, therefore, this criterion is considered adequate and documented.
<b>12</b>	Sampling Method	Sampling to be undertaken as part of the CPA must be done in accordance with the requirements of the applied methodology AMS II G V4.0, and the latest applicable guidelines/standards for sampling and surveys.	CPA-specific excel spreadsheet will be provided, which will include important assumptions and calculations of the sample size for each parameter sampled.	The Sampling is made in accordance with the UNFCCC requirements, therefore, the criterion is correct.
<b>13</b>	De-bundling Check	CPA must establishes that they are not a de-bundled component <sup>1</sup> of any other	Excel spreadsheet will be provided, which includes ex-ante calculation of	The criterion is transparently detailed in the POA-DD and

<sup>1</sup> According to the "Guidelines on assessment of de-bundling for SSC project activities, v03 (EB 54, Annex 13, par. 10) for determining the occurrence of de-bundling under a Programme of Activities (PoA)", if each of the independent subsystem/measures included in the CPA of a PoA is not larger than 1% of the small scale threshold defined by the

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
		large scale CDM project activity.	energy savings from specific EcoRecho stove models planned for dissemination and included as part of the specific CPA. Ex-ante calculation will demonstrate that the thermal energy savings from each stove model included in a specific CPA is not greater than 1% of the small-scale threshold, which provides an exemption from conducting a de-bundling check.	the excel spreadsheets are adequate to demonstrate the energy savings, therefore, the criterion is considered adequate and documented.
<b>14</b>	Updating the CPA eligibility criteria	<p>CME should include provisions to update the eligibility criteria in case of held or withdrawn methodologies, in accordance with EB70, Annex 5 – Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities, ver 2.1., paragraph 23 and 24.</p> <p>If the version of methodologies applied by the CPA is revised or replaced, subsequent to being placed on hold, the CME shall update the eligibility criteria to the requirements of the revised or new methodologies with</p>	Methodology updates and status can be reviewed on the UNFCCC website. In situations where the methodology has been revised or replaced subsequent to being placed on hold or withdrawn, CME will incorporate the latest version of the PoA-DD, including updates to the eligibility criteria and submit it for EB review. No action is required if the version of methodologies applied by the CPA-DD is revised without being placed on hold or is withdrawn for the purpose of inclusion in a consolidation of methodologies, unless otherwise indicated in a	AENOR considers this criterion correctly stated.

methodology applied, then that CPA of the PoA is exempted from performing de-bundling check, i.e. considered as being not a de-bundled component of a large scale activity.

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Sl. No.	Eligibility Criteria		Items/Parameters to be checked for proof of eligibility for inclusion of a CPA under the PoA	DOE assessment of eligibility criteria
	Category	Description		
		immediate effect. A new version of the PoA DD and CPA01-DD containing updated eligibility criteria validated by a DOE shall be submitted to the Board for approval.	report of the meeting of the Board that has approved the new methodologies.	

AENOR has determined that the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of inclusion of CPAs in the PoA.

Each CPA will have to demonstrate the additionality individually at the CPA level and this will be checked at the CPA level by the managing entity and can be confirmed by the DOE during inclusion. Every CPA will have to meet all the criteria to ensure eligibility to participate in this PoA.

#### 4.3 Provisions regarding the revisions of the CPAs in case the methodology is put on hold or withdrawn.

Provisions regarding the revisions of the CPAs in case the methodology is put on hold or withdrawn have been established in accordance with EB70, Annex 5 – Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities, ver 2.1., paragraph 23 and 24.

- No new CPAs shall be included to the PoA.
- the PoA shall be revised accordingly and the changes shall be validated by a DOE and approved by the Board if new CPAs are to be included.
- Once changes have been approved by the Board, each new CPA shall use the latest version of the PoA specific CDM-CPA-DD.
- CPAs that were included before the methodology was put on hold, shall apply the latest version of the PoA specific CDM-CPA-DD at the time of the renewal of the crediting period.

If the version of methodologies applied by the CPA is revised or replaced, subsequent to being placed on hold, the CME shall update the eligibility criteria to the requirements of the revised or new methodologies with immediate effect. A new version of the PoA DD and CPA01-DD containing updated eligibility criteria validated by a DOE shall be submitted to the Board for approval.

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## **5 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS**

According to Decision 3/CMP.1, the validator shall make the PoA-DD and specific CPA-DD a publicly available and receive comments on the validation requirements from parties, stakeholders and UNFCCC accredited NGOs within 30 days, and make them publicly available.

AENOR published the project document on CDM website (<http://unfccc.cdm.int>) on 2012/07/13 and invited comments by Parties, stakeholders and non-governmental organizations. No comments were received.



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## **6 VALIDATION OPINION**

AENOR has performed a validation of the Programme of Activities “**Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti**”. The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria given for the Programmes of Activities to provide for consistent operations, monitoring and reporting.

The validation consisted of the following three phases: i) a desk review of the programme design, the baseline and the monitoring plans; ii) follow-up interviews with project stakeholders; iii) the resolution of outstanding issues and the issuance of the final validation report and opinion. In the course of the validation process, 12 corrective actions and 11 clarifications were raised; all have been successfully closed.

The review of the programme design documentation and additional documents related to baseline and monitoring methodology, and the subsequent background investigation, follow-up interviews and review of comments by parties and stakeholders have provided AENOR with sufficient evidence to validate the fulfilment of the stated criteria.

The conclusions can be summarised in detail as follows:

- The PoA is in line with all relevant host country criteria of Haitian DNA, and Italian DNA with the Letters of Approval from Haiti and Italy and with all relevant UNFCCC requirements for Programme of Activities. The LoA from Haiti is dated 02/04/2013, and LOA from Italy is dated on 25/06/2013.
- The operational and management plan established by the coordinating entity is suitable for the PoA validated.
- The baseline has been appropriately identified as per the applied methodology.
- Eligibility criteria in the PoA-DD are sufficient to ensure that all CPAs would comply with the CDM requirements applicable to the PoA. These requirements include the means of demonstrating the additionality of the CPA and the applicability of the applied methodology.
- The programme's additionality is sufficiently justified in the PoA-DD.
- The monitoring plan and the Operational and Management Plan are transparent and adequate.
- The calculation of validated CPA emission reductions has been carried out in a transparent and conservative manner, following the approved methodology AMS-II.G version 04.
- Information on the local stakeholders' consultation by the project participants prior to submitting the PoA for validation is sufficiently provided in the PoA-DD.

In our opinion, the Program correctly applies and meets the relevant UNFCCC requirements for the CDM Programme of Activities and the relevant host country criteria.

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## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

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The validation has been performed using a risk based approach, as described above. The only purpose of this report is its use during the registration process as part of the CDM project cycle. Hence, AENOR cannot be held liable by any party for decisions made or not made based on the validation opinion, which would go beyond the purpose.

24/07/2013



Luis Robles Olmos

Authorized person

24/07/2013



Jose Antonio Gesto Vilacoba

Chief validator

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

**7 CORRECTIVE ACTION REQUESTS, CLARIFICATIONS AND FORWARD ACTION REQUESTS**

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CAR 1</b>		
<b>Classification</b>	<b>CAR</b> <input checked="" type="checkbox"/>	<b>CL</b> <input type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Letter of Approval from Haiti and Letter of Approval from Italy shall be provided to the validation team.		
<b>PP RESPONSE #1</b> <i>It shall address the corrective action taken in details</i>	<i>This section shall be filled by the PP.</i> LoA from Haiti is provided.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	Haiti LoA		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The LoA from Haiti has been provided. Nevertheless, in order to obtain the LoA from Italy the validation report is needed. Therefore, this CAR is partially closed.		
<b>PP RESPONSE #2</b> <i>Corrective action</i>	<i>This section shall be filled by the PP.</i> LoA from Italy is obtained.		
<i>Evidence proposed</i>	. Italian LoA.		
<b>DOE Assessment #2</b>	Both LOAs have been provided to the validation team, and they are correct. <b>CAR is closed</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 2		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Modalities of Communication document shall be provided to the validation team.		
<b>PP RESPONSE #1</b> <i>It shall address the corrective action taken in details</i>	<i>This section shall be filled by the PP.</i>		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	MOC has been provided.		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	MOC has been provided, nevertheless, the contact details are not consistent with those included in the POA-DD. <b>CAR is still open.</b>		
<b>PP RESPONSE #2</b> <i>Corrective action</i>	<i>This section shall be filled by the PP.</i>		
<i>Evidence proposed</i>	New POA-DD has been prepared correcting the contact details.		
<b>DOE Assessment #2</b>	The contact details are consistent between POA-DD and MOC. Therefore, <b>CAR is closed.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	CAR/CL CLOSED <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 3		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	PoA additionality shall be assessed in accordance with the "Standard for demonstration of additionality of GHG emission reductions achieved by a Programme of Activities". On the other hand, the attachment A of Appendix B of the simplified modalities and procedures for SSC-project activities (Version 8, EB 64) is currently obsolete. The POA-DD shall be modified in order to demonstrate the additionality in accordance with the last versions of the additionality documentation.		
<b>PP RESPONSE #1</b> <i>It shall address the corrective action taken in details</i>	<i>This section shall be filled by the PP.</i> PoA-DD has been revised in accordance with the following versions (i.e., most recent) additionality guidance and standards documents: 1) EB 70, Annex 2 – Clean Development Mechanism Project Standard, ver 2.1 2) EB 70, Annex 5 – Standard for Demonstration of Additionality, Development of Eligibility Criteria and Application of Multiple Methodologies for Programme of Activities, ver 2.1 3) EB 68, Annex 27 – Guidance on the Demonstration of Additionality of Small-Scale Project Activities, ver 9.0. In addition, paragraph 2 (c) of the Guidance on the Demonstration of Additionality of Small-Scale Project Activities, ver 9.0, is used to demonstrate automatic additionality for the improved cookstove technology planned for implementation under each CPA of the proposed PoA, since it is covered under the positive list of technologies and project activity types for which automatic additionality can be granted.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>			
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The PP has provided the validation team with documentation of barriers, as per paragraph 2.c of the above, is not required for the positive list of EB 68, Annex 27 – Guidance on the Demonstration of Additionality of Small-Scale Project Activities, ver 9.0 to justify that a CPA is defined as automatically additional because the CPA is composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM thresholds. Versions of the Ref Documents have been updated and		

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

	assumptions have been proved and they are in line with the UNFCCC requirements. Therefore the <b>CAR is closed</b> .	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 4		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The prior consideration section shall be reviewed since it is not a requirement for Programme of Activities.		
<b>PP RESPONSE #1</b> <i>This section shall be filled by the PP.</i>			
<i>It shall address the corrective action taken in details</i>	EB 70, Annex 2 – Clean Development Mechanism Project Standard, ver 2.1 paragraph 29, states that the requirements in paragraphs 26 through 28, pertaining to the demonstration of prior consideration of the clean development mechanism do not apply to CDM PoAs. Therefore, the prior consideration section in the PoA-DD has been removed.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>			
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	During validation activities, version 03 of the VVS has been published, and provisions regarding prior consideration of the CDM have been included in paragraph 194. Since the Prior Consideration of the CDM form was sent to the UNFCCC on 18 February 2011, it is considered that the criterion is fulfilled. Nevertheless, it is kindly requested to re-include again the text of the prior consideration into the POA-DD. <b>CAR is still open.</b>		
<b>PP RESPONSE #2</b> <i>This section shall be filled by the PP.</i>			
<i>Corrective action</i>	Part 1, section B.1. of the PoA-DD has been revised to include a description of the demonstration of prior consideration of the CDM. Specifically, important dates have been provided (please refer to the CL 1 for supporting documents related to the dates provided) that demonstrate CDM revenue was considered during conception of the project. In addition, the PoA-DD provides a description of the demonstration of prior consideration of the CDM in accordance with paragraph 26 of the Clean Development Mechanism Project Standard, version 2.1.		
<i>Evidence proposed</i>	1) USAID Private Financing for Watershed Stewardship in Haiti, 2009, Section 3, Pg. 23 of 66 (USAID Private Financing for Watershed Stewardship in Haiti.pdf)		
<b>DOE Assessment #2</b>	The explanation is considered in accordance with the Clean development mechanism project Standard. Nevertheless, the paragraph 26 of the Standard is not applicable since the starting date of the POA is not prior the publication of the POA for global stakeholder consultation. <b>Please, clarify this</b>		

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

	sentence.	
<b>PP RESPONSE #3</b>	<i>This section shall be filled by the PP.</i>	
<i>Corrective action</i>	A clarification has been included in section B.1 of the POA-DD.	
<i>Evidence proposed</i>		
<b>DOE Assessment #3</b>	The clarification is considered appropriate, and the justification of the starting date and prior consideration is adequate. Therefore, <b>CAR is closed</b> .	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>



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Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY		Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING		CAR 5		
Classification	CAR	CL	FAR	
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The procedure referred to in the start date eligibility criteria is not currently valid.			
<b>PP RESPONSE #1</b> <i>It shall address the corrective action taken in details</i>	<i>This section shall be filled by the PP.</i>			
<b>PP RESPONSE #1</b> <i>It shall address the corrective action taken in details</i>	The CPA start date eligibility criteria in the PoA-DD has been revised in accordance with EB 70, Annex 2 – Clean Development Mechanism Project Standard, ver 2.1 paragraph 161. The criteria states that the CME shall determine the CPA start date as the earliest date at which either the implementation or construction or real action of the CPA begins. In addition, the CME shall confirm that the start date of any proposed CDM CPA is on or after the start date of the PoA. Specifically, the CME will use the first signed purchase receipt by the customer of an EcoRecho stove that is included in a specific CPA as proof of implementation or beginning of real action of the CPA.			
<b>PP RESPONSE #1</b> <i>It shall provide and indentified the evidence proposed (if applicable)</i>				
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The new consideration of the start date stated in the new version of the POA-DD is in accordance with the Standard. Nevertheless, the edition of the criteria shall be reviewed because of the following reasons: <ul style="list-style-type: none"> <li>• The validation activities of the DOE should not be included.</li> <li>• These activities are defined in the verification stage instead validation stage.</li> <li>• Since there will be CPAs that in the validation stage the purchase receipt is not signed, this possibility should be included in the description of the criteria.</li> </ul> Therefore, <b>CAR is not closed.</b>			
<b>PP RESPONSE #2</b> <i>Corrective action</i>	<i>This section shall be filled by the PP.</i>			
<b>PP RESPONSE #2</b> <i>Corrective action</i>	Item 6 (CPA Start Date) of the CPA Eligibility Criteria table within the PoA-DD, has been revised to remove validation/verification activities. In addition, a description has been included of the situation in which a signed purchase receipt may not be available at the time of validation or during a request for inclusion of a CPA, due to the future start date of a CPA. In this situation, the CPA start date will be estimated			

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	during the validation stage or request for inclusion, but the actual CPA start date will be based on the actual date of the first signed purchase receipt. The first signed purchase receipt will be available during verification.	
<i>Evidence proposed</i>		
<b>DOE Assessment #2</b>	The correction is not completely adequate. The verification activities are still included and it is not correct since the eligibility criteria cannot be checked during verification. It is required to modify the explanation in order to be consistent with the UNFCCC requirements. <b>CAR is still open.</b>	
<b>PP RESPONSE #3</b>	<i>This section shall be filled by the PP.</i>	
<i>Corrective action</i>	The POA-DD has been corrected. A self declaration has been included as possibility to demonstrate the fulfillment of the start date criterion.	
<i>Evidence proposed</i>	POA-DD version 04.0	
<b>DOE Assessment #3</b>	In situations where the CPA start date is estimated to be a future date after either the validation stage or the request for inclusion of the CPA, a CME's self-declaration will be provided attesting that the eligibility criteria for the CPA start date will be met. This is considered appropriate, therefore, <b>CAR is closed.</b>	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

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Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 6		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The eligibility criteria related to the applicability of the methodology is not stated in accordance with the "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities".		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	<p>The eligibility criteria related to the applicability of the methodology specified in the PoA-DD has been revised in accordance with EB70, Annex 5 – Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities, ver 2.1.</p> <p>The methodology applicability criteria in AMS.II.G. Version 4 includes the requirement that each CPA demonstrate that non-renewable biomass has been used since 31 December 1989 within the CPA boundary, which has been included in the PoA-DD CPA eligibility criteria, table 6.</p> <p>In addition, the description and procedures for updating the eligibility criteria has been moved to a separate section within table 6 "Generic CPA Eligibility Criteria" of the PoA-DD (item 14, "Updating the CPA eligibility criteria").</p>		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>			
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Since the justification of each CPA to demonstrate that non-renewable biomass has been used since 31 December 1989 within the CPA boundary is made using national data it is considered that all CPAs will fulfill it since they will be located in Haiti. Therefore, the edition of this criterion shall be modified in order to be further clear. <b>CAR is still open.</b>		
<b>PP RESPONSE #2</b>	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	Item 7 of the CPA Eligibility Criteria table has been revised to state that an analysis has been conducted for the Republic of Haiti demonstrating the use of non-renewable biomass since 31 December 1989. Therefore the analysis is valid for each CPA that is implemented within the Republic of Haiti. The supporting evidence to be used will be the distributor agreements, which include provisions to limit the dissemination of EcoRecho stoves to end users within the geographical boundary of the Republic of Haiti.		

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<i>Evidence proposed</i>	
<b>DOE Assessment #2</b>	As described in the POA-DD, the use of non-renewable biomass has been conducted at the country level. Therefore, given that the project boundary for the PoA is the Republic of Haiti, the analysis conducted at the PoA level is applicable to all CPAs so long as each CPA is implemented within the Republic of Haiti. Thus, the <b>CAR is closed</b> .
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<div>CAR/CL CLOSED <input checked="" type="checkbox"/></div> <div>To be checked during the periodic verification <input type="checkbox"/></div>

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Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CAR 7</b>		
<b>Classification</b>	<b>CAR</b> <input checked="" type="checkbox"/>	<b>CL</b> <input type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	No requirement related to the stakeholder consultation process and environmental impact analysis is included in section B.2 of the POA-DD in accordance with the "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities".		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	<p>The PoA-specific requirements related to eligibility criteria in the PoA-DD has been revised in accordance with EB70, Annex 5 – Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities, ver 2.1. The criteria requires inclusion of procedures that ensure each CPA is in compliance with any PoA-specific requirements stipulated by the CME, including any conditions related to undertaking stakeholder consultations and environmental impact analysis.</p> <p>Stakeholder consultation and the environmental impact analysis have been conducted within the geographical boundary of the Republic of Haiti. Therefore, as stated within the PoA-DD, the stakeholder consultation has been conducted at the PoA level. Each CPA will meet this specific eligibility requirement provided that the project activity boundary for each CPA is within the Republic of Haiti.</p>		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>			
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The clarification is considered adequate, and requirement 9 "POA Specific Requirement" has been stated regarding Stakeholder and environmental conditions. Therefore, <b>CAR is closed.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

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Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 8		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The Sampling Plan shall be developed in accordance with the applicable Standard and provided to the validation team.		
<b>PP RESPONSE #1</b> <i>This section shall be filled by the PP.</i>			
<i>It shall address the corrective action taken in details</i>	The PoA Sampling Plan has been developed in accordance with the applicable EB69, Annex 4 <i>Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities</i> , version 3.0; and is included as Attachment 1 to the PoA-DD.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Attachment 1 Sampling Plan Version 1.0 January '7, 2013 {Haiti PoA Sampling Plan_ver1.0_Final 07Jan2013} 2) Sample size Calculation Sheet – {Sample Size Calculation CPA01_Final 07Jan13}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Versions of the reference have been updated. The PP is kindly requested to: <ul style="list-style-type: none"> <li>• Provide further information regarding the expression “Footnote 15 of the <i>Standard for Sampling and Surveys</i> states that this minimum sample size of 30 is needed to meet the reliability criteria for proportional value parameters. Where the parameter of interest is the mean, the calculated sample size will be used”.</li> <li>• Provide further information to demonstrate that the simple random sampling is valid for the PoA and CPAs.</li> <li>• Include sampling Plan as an annex in the PoA DD.</li> <li>• Clarify whether the information described in section III of the guidelines is included and correctly applied in the sampling Plan.</li> </ul> <b>CAR is still open.</b>		
<b>PP RESPONSE #2</b> <i>This section shall be filled by the PP.</i>			
<i>Corrective action</i>	In the <i>Standard for Sampling and Surveys</i> (Ver 3.0, EB69, Annex 4, Section 12, page 5) the following statement references Footnote 15: <p style="margin-left: 40px;">“If the sample size calculation returns a value of less than 30 samples, a minimum sample size of 30 shall be chosen<sup>15</sup>.”</p> The referenced footnote 15 reads as follows: <p style="margin-left: 40px;"><sup>15</sup>This is to approximate normal, for example in cases</p>		

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where a very high value is anticipated for the proportion of interest (that is  $p > 0.9$  such as when 99% of CFLs are functional) when calculations would return extremely small sample size.

Clearly, this footnote is specifying a default sample size of 30 in a situation where the sample size calculation returns a value less than 30 for a proportion parameter of interest that is anticipated to have a high value (e.g.,  $p > 0.9$ ). This approach helps ensure that an adequate number of samples are selected to obtain an accurate representation of a proportion of interest. Since proportions are derived from data that is binary (i.e., yes/no), the value of the proportion is dependent on the number of samples. For example, if a sample size calculation for determining a proportion parameter with expected value of  $> 0.9$  yields 7 samples, it indicates that 1/10 of the samples (i.e., 0.7 of a sample) can be expected to be “no” values. In this case, this sample size may be insufficient to detect any “no” values; hence the need for a larger sample size (such as the  $n = 30$  rule-of-thumb). This is not an issue, since the calculations of the sample size for the two proportion parameters that will be used in this PoA, namely SOF and  $f_{\text{trad-unused}}$ , are much greater than 30, which is expected based on the expected target value assumed for each proportion (above 0.75).

On the other hand, the mean value of the thermal efficiency of a stove is not a proportional parameter, but represents a type of data that is a measured parameter (using the WBT or equivalent protocol). Such a parameter is considered a continuous variable that has an underlying normal distribution, and nothing to suggest that its distribution is other than normal. The required sample size (determined from equation 18 of the *Guidelines for Sampling and Surveys* and included in the Sampling Plan) to estimate this parameter is not affected by the value of the parameter, but rather by the variability in the parameter at the specified 90% confidence and 10% margin of error (i.e., 90/10 reliability). The variability in thermal efficiency of stoves of the same type (either medium or large) that is manufactured in the same manner and at the same facility is not expected to be very large since each stove is manufactured to the same specifications. The minimum sample size is a function only of the variability in the thermal efficiency of the stoves from testing, which determines how many samples are needed to meet the required 90/10 reliability criteria for estimating the mean thermal efficiency. Although the initial replicate testing of stoves indicated a much lower variability, a higher value of 0.04 (approximately 14% of the mean efficiency value for medium stoves and approximately 16% of the mean efficiency value for large stoves) was assumed as a good initial value of the standard deviation in order to obtain higher sample sizes. In fact, you would need a standard deviation that is approximately 32% of the mean value to get a sample size of 30. A large variability is unlikely with properly functioning stoves and would not be expected to occur under good operating conditions. Increasing the number of stoves to be tested will

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	<p>only increase the costs without commensurate benefits. The resulting mean efficiency value obtained with additional sampling (e.g., from testing a total of 30 stoves) would not be significantly different from one that was obtained with the calculated sample size.</p> <p>However, it is recognized that the true variability in thermal efficiency of operating stoves is not known with a high degree of certainty. This will be addressed during the monitoring survey by using an iterative procedure starting with the initial variability (i.e., standard deviation of 0.04) to estimate the sample size. The results of the stove tests on those initial stove samples will be used to determine the sample variability in thermal efficiency. If the variability is larger than what was initially assumed, the sample size will be recalculated and additional stoves will be tested, as needed. This process of using sampled data to revise the sampling size requirements will ensure that the intent of the sampling, namely the 90/10 reliability criteria is always met and is consistent with both the <i>Standard for Sampling and Surveys</i> and <i>Guideline for Sampling and Surveys</i> documents.</p> <p><b>Random Sampling:</b></p> <p>The Sampling Plan has been revised to include a description to demonstrate that simple random sampling is an appropriate sampling method for all CPAs under the PoA. Specifically, the following description is provided in the sampling plan under the “Sampling Method” section:</p> <p>“The sampling method for all parameters will be based on a simple random sampling approach, considering that simple random sampling is simple to use and is most appropriate when the target population is relatively homogeneous. As stated earlier, each CPA will be subjected to separate sampling. Further, the target population for each CPA will be similar i.e., similar socioeconomic status and stove category (household stoves or commercial stoves). In addition, each stove model, representing a homogeneous target population, will be sampled for efficiency independently from other models.”</p> <p><b>Application of Guidelines:</b></p> <p>The Sampling Plan has been revised to include the recommended format as described in section III of the guidance document. In addition, the Sampling Plan has been included as Appendix 6 of the PoA-DD.</p> <p>The Sampling Plan incorporates relevant information in accordance with section III of the guidance document and has been correctly applied in the development of the PoA Sampling Plan.</p>
Evidence proposed	



## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>DOE Assessment #2</b>	<p>Sample size for the estimation of the thermal efficiency has been justified, but the result of the calculation is not in line with the Standard for sampling and surveys for CDM project activities and programme of activities, which clearly states that the minimum sample acceptable is 30, "if the sample size calculation returns a value of less than 30 samples, a minimum sample size of 30 shall be chosen". The PP is kindly requested to complete the Sampling plan as per the rules stated in the Standard.</p> <p><b>CAR is open</b></p>	
<b>PP RESPONSE #3</b>	<i>This section shall be filled by the PP.</i>	
	<p>Sample Size:</p> <p>Although it is recognized that the variability in a sampling parameter determines the required sample size, the Sampling Plan has been revised to state that a minimum sample size of 30 will be used when the sample size calculation yields a value less than 30 in accordance with the Standard for Sampling and Surveys.</p> <p>Random Sampling:</p> <p>The Sampling Plan has been revised to include a description to demonstrate that simple random sampling is an appropriate sampling method for all CPAs under the PoA. Specifically, the following description is provided in the sampling plan under the "Sampling Method" section:</p> <p>"The sampling method for all parameters will be based on a simple random sampling approach, considering that simple random sampling is simple to use and is most appropriate when the target population is relatively homogeneous. As stated earlier, each CPA will be subjected to separate sampling. Further, the target population for each CPA will be similar i.e., similar socioeconomic status and stove category (household stoves or commercial stoves). In addition, each stove model, representing a homogeneous target population, will be sampled for efficiency independently from other models."</p>	
<b>DOE Assessment #3</b>	<p>Minimum sample size has been clarified and it is in line with the UNFCCC requirements, therefore, <b>CAR is closed.</b></p>	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CAR 9</b>		
<b>Classification</b>	<b>CAR</b> <input checked="" type="checkbox"/>	<b>CL</b> <input type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The last version of the <i>Standard for sampling and surveys for CDM project activities and Programme of Activities</i> shall be applied.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Sampling Plan has been developed in accordance with EB69, Annex 4 – <i>Standard for sampling and surveys for CDM project activities and programme of activities</i> , version 3.0. The Sampling Plan has been included as Attachment 1 to the PoA-DD.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Attachment 1 Sampling Plan Version 1.0 January 7, 2013 – {Haiti PoA Sampling Plan_ver1.0_Final 07Jan2013} 2) Sample size Calculation Sheet – {Sample Size Calculation CPA01_Final 07Jan13}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The POA-DD has been modified and the latest versions of the Standard and Guidelines have been included in the document, and used for the elaboration of the Sampling Plan. <b>CAR is therefore, closed.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 10		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Documented evidence of the Management System shall be provided.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The CME handbook has been developed by the CME in accordance with <i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities</i> , and paragraph 19. The CME handbook describes the Management System that will be used in implementing the CPAs under the PoA and will be provided to the DOE.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) D&E Green Enterprises, CME Hand Book – {CME-Handbook-Jan-6-13.docx}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The Hand Book has been provided and it is considered appropriate and in accordance with the requirements stated in the Standard. Therefore, <b>CAR is closed</b> .		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	CAR/CL CLOSED <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CAR 11		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	An exact date for the PoA starting date shall be established in accordance with the latest version of the CDM Project Standard.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The PoA starting date has been revised in the PoA-DD to be the date of commencement of global stakeholder consultation as published on the UNFCCC website, dated 13 July 2012.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	<a href="http://cdm.unfccc.int/ProgrammeOfActivities/Validation/index.html">http://cdm.unfccc.int/ProgrammeOfActivities/Validation/index.html</a>		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The starting date is considered correct and in accordance with the latest version of the Glossary of terms, therefore, <b>CAR is closed.</b>		
Conclusion <i>Tick the appropriate checkbox</i>	CAR/CL CLOSED <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CAR 12</b>		
<b>Classification</b>	<b>CAR</b> <input checked="" type="checkbox"/>	<b>CL</b> <input type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Procedures to ensure that CPA implementers are aware and have agreed to subscribe to the PoA shall be developed.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The CME handbook includes procedures to ensure that each Distributor Organization (DO) selected by the CME for dissemination of EcoRecho stoves sign a contract with the CME prior to sales of stoves under a CPA of the PoA. The procedures include provisions that ensure the DOs are aware of and have agreed to subscribe to the terms of the PoA.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) D&E Green Enterprises, CME Hand Book – {CME-Handbook-Jan-6-13.docx} 2) Distributor Agreement – {DE Distributor Agreement Ver1.0 Final_04Dec2012.rtf}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Procedure to ensure that implementers are aware is considered in the agreement form submitted to the validation team. It is considered appropriate and correctly documented, therefore, <b>CAR is closed.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>																								
<b>FINDING</b>	<b>CL 1</b>																								
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>																						
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The date of the version of the PoA-DD is consistent with starting date of the PoA. Nevertheless, to clarify the dates in the POA-DD a time line of the programme's history shall be provided to the validation team. On the other hand, there is an inconsistency regarding the starting date between section A.2 and Section D of the POA-DD.																								
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>																								
<i>It shall address the corrective action taken in details</i>	As required by the DOE, a table identifying the important historical events and dates regarding the PoA is shown below:																								
	<table border="1"> <thead> <tr> <th>Event</th><th>Date</th></tr> </thead> <tbody> <tr> <td>Stakeholders Consultation</td><td>18 December 2009</td></tr> <tr> <td>Start of pilot phase</td><td>01 June 2010</td></tr> <tr> <td>Date of notification of intent to seek CDM status</td><td>04 February 2011</td></tr> <tr> <td>Household Biomass Survey (HHBS) completed in Port-au-Prince</td><td>25 September 2011</td></tr> <tr> <td>No Objection Letter from DNA</td><td>17 January 2012</td></tr> <tr> <td>EcoRecho Stove Testing</td><td>19 February 2012</td></tr> <tr> <td>Global stakeholder consultation through posting of the PoA on the UNFCCC website; also the start date of the PoA</td><td>13 July 2012</td></tr> <tr> <td>Validation site visit to Haiti (DOE, D&amp;E and BC02)</td><td>26-29 November 2012</td></tr> <tr> <td>Validation Completion of PoA-DD/CPA001-DD by DOE</td><td>01 March 2013 (Anticipated)</td></tr> <tr> <td>Planned implementation of stove manufacturing machinery for industrial scale-up of the project</td><td>Will commence after DOE Validation is complete, 01 March 2013 to 01 June 2013 (estimated)</td></tr> </tbody> </table>			Event	Date	Stakeholders Consultation	18 December 2009	Start of pilot phase	01 June 2010	Date of notification of intent to seek CDM status	04 February 2011	Household Biomass Survey (HHBS) completed in Port-au-Prince	25 September 2011	No Objection Letter from DNA	17 January 2012	EcoRecho Stove Testing	19 February 2012	Global stakeholder consultation through posting of the PoA on the UNFCCC website; also the start date of the PoA	13 July 2012	Validation site visit to Haiti (DOE, D&E and BC02)	26-29 November 2012	Validation Completion of PoA-DD/CPA001-DD by DOE	01 March 2013 (Anticipated)	Planned implementation of stove manufacturing machinery for industrial scale-up of the project	Will commence after DOE Validation is complete, 01 March 2013 to 01 June 2013 (estimated)
	Event	Date																							
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	Planned implementation of stove manufacturing machinery for industrial scale-up of the project	Will commence after DOE Validation is complete, 01 March 2013 to 01 June 2013 (estimated)																							
In addition, the inconsistency regarding the PoA starting date between section A.2 and Section D of the PoA-DD has been corrected, by																									

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

	removing the statement "The expected start date of the PoA will be tied to the date of installation of manufacturing equipment".	
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Stakeholder Consultation – V2_LSC_Report_EcoRecho(vi).doc 2) Start of pilot phase – D&E Sales Tracking Tool.xls 3) Date of notification of the intention to seek the CDM status - <a href="http://cdm.unfccc.int/Projects/PriorCDM/notifications/index_html">http://cdm.unfccc.int/Projects/PriorCDM/notifications/index_html</a> 4) Household Biomass Survey (HHBS) Survey Completed in Port-au-Prince – DE charcoal survey results_final.docx 5) No Objection Letter from DNA - {Appendix7-DNA Approval.jpeg} 6) EcoRecho Stove Testing – {EcoRecho Stove Evaluation (2-19-2012).pdf} 7) Planned implementation of stove manufacturing machinery for industrial scale-up of the project – ERPA (confidential document) to be submitted separately. 8) Global Stakeholder Consultation (PoA Start Date) - <a href="http://cdm.unfccc.int/ProgrammeOfActivities/Validation/index.html">http://cdm.unfccc.int/ProgrammeOfActivities/Validation/index.html</a>	
<b>DOE Assessment #1</b>  <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Evidence have been provided, and modifications have been included in the POA-DD, therefore, <b>CL is clarified.</b>	
<b>Conclusion</b>  <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CL 2		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>Not all the links included in the small scale POA-DD are correctly working (page 2). Documented evidence to substantiate the Programme description are requested:</p> <ul style="list-style-type: none"> <li>• Technical Specification of different kinds of EcoRecho stoves.</li> <li>• Strategy to Alleviate the Pressure of Fuel Demand on National Fuelwood Resources), ESMAP, 2007.</li> <li>• Performance of Charcoal Cookstoves for Haiti. Energy Technologies Division, Lawrence Berkeley National Laboratory, 2011.</li> </ul>		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>			
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	<ul style="list-style-type: none"> <li>• Strategy to Alleviate the Pressure of Fuel Demand on National Fuelwood Resources</li> <li>• Performance of Charcoal Cookstoves for Haiti. Energy Technologies Division</li> </ul>		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The documents entitled "Strategy to Alleviate the Pressure of Fuel Demand on National Fuelwood Resources" and "Performance of Charcoal Cookstoves for Haiti. Energy Technologies Division" have been provided and the description included in the POA-DD is stated in accordance with them. Nevertheless, the technical Specification of the different kinds of stoves is not provided. <b>CL 2 is still open</b></p>		
<b>PP RESPONSE #2</b>	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	<p>The link on page 2 of the PoA-DD has been corrected as follows:  <a href="http://transition.usaid.gov/press/releases/2012/pr120221.html">http://transition.usaid.gov/press/releases/2012/pr120221.html</a>  A PDF version will also be made available to the DOE. In addition, the documented evidence to substantiate the programme description as described above by the DOE will be provided.</p>		
<i>Evidence proposed</i>	<ol style="list-style-type: none"> <li>1) {EcoRecho Stove Evaluation (2-19-2012).pdf}</li> <li>2) {Haiti Strategy to Alleviate the Pressure of Fuel Demand.pdf}</li> <li>3) {Performance of Charcoal Cookstoves for Haiti Part 1.pdf}</li> <li>4) {USAID Press Release_ USAID supports new Haiti project for clean cooking solutions.pdf}</li> </ol>		



## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>DOE Assessment #2</b>	The documentation has been provided and the links included in the POA-DD correctly work, therefore, <b>CL is considered clarified.</b>	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CL 3		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence that the Programme description is in compliance with the actual situation or planning shall be provided to the validation team.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	During the DOE site visit, all licenses and legal documents to justify that the PoA can be implemented as planned were provided. Specifically, Carte d'Immatriculation Fiscale (NIF) (i.e., Tax Registration ID) with the "Patente" (i.e., License) that every business operating in the Republic of Haiti is required to have, was provided to the DOE for review. The "Patente" number signifies that taxes have been paid, and is provided for each period that taxes have been paid on earned profits.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1. Carte d'Immatriculation Fiscale (NIF) – Tax Registration ID (confidential document) to be submitted separately.		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The documentation provided justify that the POA will be able to be implemented, therefore, <b>CL is clarified</b> .		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	CAR/CL CLOSED <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 4</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Documented evidence to justify the awareness programmes made for local people shall be provided to the validation team.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Stakeholder consultation report will be provided to the DOE. In addition, during the DOE site visit, banners and advertisements used by D&E to promote the EcoRecho stoves were provided.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Stakeholder Consultation Report – {GSV2_LSC_Report_EcoRecho(vi).doc}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Documented evidence has been provided during the on site visit and it is considered correct. <b>CL is clarified.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 5</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Documented evidence of the Stakeholder consultation process shall be provided to the validation team.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Stakeholder consultation report will be provided to the DOE.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Stakeholder Consultation Report – {GSV2_LSC_Report_EcoRecho(vi).doc}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>Please provide us with the following evidence that are not included in the LSC Report:</p> <ul style="list-style-type: none"> <li>-The copies of invitations (Letter/email) sent out to the participant list.</li> <li>-Non-Technical summary in local language, this one should also be included in the LSC.</li> <li>-Minutes of the meeting.</li> </ul>		
<b>PP RESPONSE #2</b>	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	<p><b>Invitations</b></p> <p>Section B.1.i. of the stakeholder consultation report includes the invitation tracking table, which provides information on the invitations sent and the method of delivery. In addition, section B.1.iv includes a copy of the invitation that was sent to stakeholders. Over 200 stakeholders were invited. Although it is difficult to provide physical proof of each invitation sent, some of the emails sent out to key stakeholders will be provided for the DOE to review. However, the proof that invitations were sent is in the sign-in sheets filled in by all attendees, which can be cross-checked with the names in the invitation tracking table.</p> <p><b>Non-Technical Summary</b></p> <p>The non-technical summary in the local written language (French) was sent to the stakeholders along with the invitation letters. This non-technical summary included as part of the invitation letter has been attached to the stakeholder consultation report in section B.1.iv. "Text of individual invitations".</p> <p><b>Minutes of the Meeting</b></p>		

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

	The minutes of the meeting were not hand written. One person was assigned to document the meeting, which was recorded on a computer as the meeting was taking place. The actual documented version of the minutes of the meeting is included in the stakeholder consultation report in section C.3.i. "Minutes of physical meeting(s)".	
<i>Evidence proposed</i>	<ol style="list-style-type: none"> <li>1. Stakeholder Consultation Report already provided.</li> <li>2. 11 actual email invitations sent to stakeholders was provided to the DOE through email communications. In addition, the email invitations sent to the DOE have been complied in a PDF format. (Haiti PoA Stakeholder Consultation Invitations.pdf).</li> <li>3. Sign-in sheets can be cross-checked with the Invitation tracking table.</li> </ol>	
<b>DOE Assessment #2</b>	The invitations have been provided and the non technical summary is included in the Stakeholder Consultation Report. <b>CL is clarified.</b>	
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 6</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The PP should clarify if any legislation rules the stakeholder consultation for the PoA.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Section F.1 of the POA-DD has been updated to include information regarding legislation that governs the stakeholder consultation process. In part, the PoA-DD states that there are no laws/regulations promulgated in Haiti that govern the stakeholder consultation process; therefore the stakeholder consultation process was conducted based on the World Wildlife Fund's Gold Standard guidelines prevalent at the time of the stakeholder consultation completed on 18 December 2009.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	4. Stakeholder Consultation Report – {GSV2_LSC_Report_EcoRecho(vi).doc}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	This issue has been clarified in the PoA and it is considered correct. <b>CL is clarified.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 7</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Documented evidence to justify that non-renewable biomass have been used since 31 December 1989 shall be provided.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Section B.2 page 23 of the PoA-DD has been updated with discussion and appropriate reference sources to clearly demonstrate that non-renewable biomass has been used since 31 December 1989. All documented evidence will be provided to the DOE.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) Country Profile Haiti Library of Congress.pdf 2) Stevenson.G.G., The production, distribution and consumption of fuelwood in Haiti.pdf 3) Haiti Strategy to Alleviate the Pressure of Fuel Demand.pdf 4) Assessment of Haiti Alternative Cooking Technologies Program, USAID, 2010.pdf		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The modification of the description of the applicability condition included in the POA-DD is considered appropriate and correctly documented as the evidence have been provided, therefore, <b>CL is clarified</b> .		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

PROJECT ACTIVITY	Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti		
FINDING	CL 8		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>The sources of documentation used to calculate all the parameters shall be provided to the validation team, among others:</p> <ul style="list-style-type: none"> <li>• The survey completed in August 2011 by HHBS.</li> <li>• Water Boiling Test: LBNL Study and EPTP Study.</li> <li>• USAID and ESMAP Reports.</li> <li>• Households Biomass Survey.</li> </ul>		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	All sources of documentation used in the PoA-DD for estimation of parameters will be provided to the DOE.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) {DE charcoal survey results_final.docx} 2) {EcoRecho Stove Evaluation (2-19-2012).pdf} 3) {Performance of Charcoal Cookstoves for Haiti Part 1.pdf} 4) {Haiti Strategy to Alleviate the Pressure of Fuel Demand.pdf} 5) {Assessment of Haiti Alternative Cooking Technologies Program, USAID, 2010.pdf}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The validation team has been provided with the required documentation, therefore, <b>CL is closed</b> .		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	CAR/CL CLOSED <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	



## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 9</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The spreadsheets prepared for the calculation of the emission reductions of each of the CPAs shall be provided to the validation team.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The spreadsheets prepared for the ex-ante calculation of the emission reductions for all generic CPAs will be provided.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) {Haiti CER Calculation CPA001 Ver2_Final 08Jan12.xlsx}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The spreadsheets have been provided. They are open excel, and formulae are consistent with those stated in the POA-DD and the applied methodology. Therefore, <b>CL 9 is closed.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 10</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Documented evidence of the EDAS System shall be provided to the validation team.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	<p>The CME is currently in the process of developing the EDAS system in accordance with the design described in Appendix 5 of the PoA-DD. The completion and implementation of the EDAS system is contingent on receiving funding from the CER buyer, which will occur after the PoA Validation by the DOE is complete.</p> <p>In addition, during the DOE site visit, the CME provided initial proposals submitted by contractors interested in developing the EDAS system. The CME anticipates that once funding is made available, the implementation of the EDAS system will take approximately one (1) month.</p>		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>			
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The clarification is considered appropriate, therefore, <b>CL is clarified.</b>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

<b>PROJECT ACTIVITY</b>	<b>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</b>		
<b>FINDING</b>	<b>CL 11</b>		
<b>Classification</b>	<b>CAR</b> <input type="checkbox"/>	<b>CL</b> <input checked="" type="checkbox"/>	<b>FAR</b> <input type="checkbox"/>
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Further Information regarding the Water Boling Test to be made is required to be included in the POA-DD.		
<b>PP RESPONSE #1</b>	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The Water Boling Test (WBT) conducted on the EcoRecho stove models planned for dissemination under CPA01 will be provided.		
<i>It shall provide and indentified the evidence proposed (if applicable)</i>	1) {EcoRecho Stove Evaluation (2-19-2012).pdf}		
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The document has been provided and data of the efficiency of the stoves included in the POA-DD is consistent with it. Therefore, <b>CL is clarified</b> .		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<b>CAR/CL CLOSED</b> <input checked="" type="checkbox"/>	To be checked during the periodic verification <input type="checkbox"/>	

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

## 8 REFERENCES

Reference	Document Name	Author/Competent Authority
1	CDM SSC-PoA-DD version 1.0	D&E Green Enterprises
2	CDM SSC-PoA-DD version 5.0	D&E Green Enterprises
3	CPA_01 CPA-DD version 05.	D&E Green Enterprises
4	AMS II.G version 04	CDM – Executive Board
5	Sampling and surveys for CDM project activities and programme of activities Standard, version 03.0.	CDM – Executive Board.
6	Guidelines on assessment of debundling for SSC project activities, version 03.0.	CDM – Executive Board.
7	Guidelines on the demonstration of additionality of small-scale project activities, version 09.0.	CDM – Executive Board.
8	Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities Standard, version 03.	CDM – Executive Board.
9	CDM Validation and Verification Standard version 03	CDM – Executive Board.
10	Letter of Approval from the DNA of Haiti.	Environmental Ministry – DNA from Haiti.
11	Letter of Approval from the DNA of Italy.	Ministry for the Environment, Land and Sea - DNA from Italy.
12	Specific Instruction for validation, verification and certification of Clean Development Mechanism (CDM) Project Activities (IE-DTC-039)	AENOR
13	Performance of Charcoal Cookstoves for Haiti, Part 1: Results from the Water Boiling Test.	Environmental Energy Technologies Division Lawrence Berkeley National Laboratory Berkeley, CA 94720
14	Assessment of Haiti alternative cooking technologies program USAID, 2010	United States Agency for International Development.

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

Reference	Document Name	Author/Competent Authority
15	Cooking Fuel Needs in Haiti: A Rapid Assessment by Women's Refugee Commission & World Food Programme March 2010.	Women's Refugee Commission & World Food Programme. March 2010
16	Disaster Management Programs for Priority Countries, Latin America & Caribbean (Country DRM Note).	World Bank's Haiti Country team/ministry of Planning and External Cooperation/ Ministry of Interior (the Civil Protection Directorate) and key financial and technical partners (IADB, European Commission, UN DP, US AID, ACDI, and AECI D).
17	Environmental Scarcities And Conflict in Haiti Ecology and Grievances in Haiti's Troubled Past and Uncertain Future Prepared by Philip Howard For the Canadian International Development Agency, June 1998	Philip Howard - For the Canadian International Development Agency.
18	The production, distribution and consumption of fuelwood in Haiti.	Stevenson.G.G., 2007.
19	Library of Congress – Federal Research Division – Country Profile: Haiti May 2006	Gob. Haiti
20	Haiti: Strategy to alleviate the pressure of Fuel Demand on National Woodfuel Resources.	ESMAP, 2007.
21	Lawrence Berkeley National Laboratory (LBNL) study made on April 2010	Lawrence Berkeley National Laboratory
22	2010 FAO Global Forest Resource assessment and EB 67, Annex 22	FAO.
23	Additional testing was conducted by Colorado State University (CSU)	Colorado State University (CSU)
24	Stove Manufacturers Emission & Performance Test Protocol (EPTP)	Morgan DeFoort, Christian L'Orange and Cory Kreutzer (Engines & Energy Conversion Laboratory at Colorado State University), Nathan Lorenz (Envirofit International), and Wiecher Kamping and Jan Alders (Philips Electronics).

## VALIDATION REPORT

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

Reference	Document Name	Author/Competent Authority
25	EB 67, Annex 22 – Default values of fraction of non-renewable biomass for least developed countries and small island developing States	CDM – Executive Board
26	Glossary of CDM Terms	CDM – Executive Board
27	Date of notification of intent to seek CDM status	D&E Green Enterprises
28	Household Biomass Survey (HHBS) completed in Port-au-Prince	D&E Green Enterprises
29	No Objection Letter from DNA	DNA
30	EcoRecho Stove Testing	D&E Green Enterprises
31	CME Hand Book V01	D&E Green Enterprises
32	Gold Standard guidelines	GOLD STANDARD- D&E Green Enterprises
33	Invitation letters	D&E Green Enterprises
34	GS Toolkit	GOLD STANDARD
35	Local Stakeholder Consultation Report	D&E Green Enterprises
36	Des Lois Haitiens de l'environnement – October 1995	Environmental Ministry of Haiti..

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VALIDATION PROTOCOL

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti

2013/07/24

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VALIDATION PROTOCOL

PROGRAMME OF ACTIVITIES: “Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti”

PROJECT PARTICIPANTS:

D&E Green Enterprises

Enel Trade SpA

Validation Type	
<input checked="" type="checkbox"/> Validation of a Programme of Activities	
Validation Team: Chief validator: Jose Antonio Gesto Validator: Mercedes García Madero Validator: Pablo Taboada Utrera Validator: Elena Llorente Pérez Technical reviewers: Alfonso Medrano Gutierrez/ Marcelino Pellitero	
Version of this Validation Protocol: 05	Date: 2013/07/24

**ANNEX 1: CDM VALIDATION PROTOCOL**

CHECKLIST TOPIC / QUESTION	MoU.	COMMENTS	Draft Conclusion	Final Conclusion
<b>PART I. PROGRAMME OF ACTIVITIES</b>				
<b>A. GENERAL DESCRIPTION OF PROGRAMME OF ACTIVITIES</b>				
<b>A.1. Programme Design Document</b>				
A.1.1. Does the used programme title clearly enable to identify the unique CDM Programme of Activities? Is it consistent in all section of the POA-DD and in all documents?	DR I	The title of the programme of activities is " <i>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</i> ". Through this PoA, D&E seeks to expand the reach and use of EcoRecho stoves in Haiti in order to reduce charcoal consumption, and in turn the depletion of forest covert in the country. The title is consistent in the entire document.	OK	OK
A.1.2 Is there any indication concerning the version number and the date of the version?	D	Yes, there are indications concerning the version number and the date of the version.	OK	OK
A.1.3. Is this consistent with the time line of the project's history?	DR	<b>CL 1 - The date of the version of the PoA-DD is consistent with starting date of the PoA. Nevertheless, to clarify the dates in the POA-DD a timeline of the programme's history shall be provided to the validation team. On the other hand, there is an inconsistency regarding the starting date between section A.2 and Section D of the POA-DD.</b>  Once CL 1 has been clarified, it is considered that the timeline and the dates stated in the POA-DD are consistent in the entire document.	<b>CL 1</b>	OK



A.1.4. Is the POA-DD prepared in accordance with the latest template and guidance from the CDM Executive Board?	DR	The PoA has been prepared with the latest version Programme of Activities Design Document form.	OK	OK
A.1.5. Has the POA-DD been published for Global Stakeholder Consultation (GSC) in the UNFCCC webpage?	DR	Yes, the PoA-DD, and the CPA-DD were published for Global Stakeholder Consultation (GSC) in UNFCCC website on 2012/07/13	OK	OK
A.1.6. Have there been any comments during the GSC process?	DR	The period for the GSC has concluded on 2012/08/12 and no comments have been received.	OK	OK
A.1.7. Have them correctly addressed by the validation team?	DR	N/A. No, comments have been received.	N/A	OK
<b>A.2. Description of the Programme of Activities</b> The POA-DD (section A.2) shall contain a clear description of the Programme of Activities that provides the reader with a clear understanding of the precise nature of the Programme of Activities.				

A.2.1. Is the description delivering a transparent overview of the Programme of Activities?	DR I	<p>The description of the POA is complete. Nevertheless, no evidence have been provided.</p> <p><b>CL 2 – Not all the links included in the small scale POA-DD are correctly working (page 2). Documented evidence to substantiate the Programme description are requested:</b></p> <ul style="list-style-type: none"> <li>• <b>Technical Specification of different kinds of EcoRecho stoves.</b></li> <li>• <b><i>Strategy to Alleviate the Pressure of Fuel Demand on National Fuelwood Resources</i>, ESMAP, 2007.</b></li> <li>• <b><i>Performance of Charcoal Cookstoves for Haiti. Energy Technologies Division, Lawrence Berkeley National Laboratory, 2011.</i></b></li> </ul> <p>The documents entitled “<i>Strategy to Alleviate the Pressure of Fuel Demand on National Fuelwood Resources</i>” and “<i>Performance of Charcoal Cookstoves for Haiti. Energy Technologies Division</i>” have been provided and the description included in the POA-DD is stated in accordance with them. The rest of the documentation has been provided as well and it is considered that the description included in the POA-DD delivers a transparent overview of the Programme. <b>CL is clarified.</b></p>	<b>CL 2</b>	OK
A.2.2. What proofs are available demonstrating that the programme description is in compliance with the actual situation or planning?	DR I	<p><b>CL 3 - Evidence that the Programme description is in compliance with the actual situation or planning shall be provided to the validation team.</b></p> <p>The Carte d’Immatriculation Fiscale (NIF) – Tax Registration ID (confidential document) has been submitted and they justify that the Programme is able to be implemented. <b>CL is clarified.</b></p>	<b>CL 3</b>	OK
A.2.3. Is the information provided by these proofs consistent with the information provided by the POA-DD?	DR	it is considered that information of the documentation provided is consistent with the information of the POA-DD.	<b>CL 3</b>	OK

A.2.4. Has the validation team conducted a physical site inspection to confirm the description of the POA-DD? If not, justify.	I	The site visit was made on 26-29 November 2012 in order to crosscheck the information included in the POA-DD.	OK	OK
<b>A.3. Technical description of the Programme of Activities</b>				
The POA-DD (section A.4) shall contain a clear description of the Programme of Activities that provides the reader a clear understanding of the technical aspects of its implementation.				
<i>A.3.1. Location of the Programme of Activities</i>				
A.3.1.1. Is the definition of the boundary for the POA established in terms of a geographical area within which all CPAs will be implemented?	DR I	According to the methodology AMS-II-G, the project boundary is the physical, geographical site of the efficient systems using biomass. The PoA boundary comprises the entire country of the Republic of Haiti.	OK	OK
A.3.1.2 Do the requirement that all applicable national and/or sectoral policies and regulations of the host country within the boundaries chosen taken into account?	DR I	Yes. The boundaries of the Programme have been well established, and all sectoral policies and regulations of the host country have been taken into account.	OK	OK
<i>A.3.2. Category of the Programme of Activities</i>				
A.3.2.1. To which category(ies) does the Programme of Activities belonging to? Is this category correctly identified and indicated?	DR I	In accordance with the PoA-DD, the programme of activities is of small scale. The CPAs Thermal energy savings will not exceed 180 GWh/year.	OK	OK
A.3.2.2. Does the Programme qualify as a small scale CDM Programme of Activities as defined in paragraph 6 (c) of decision 3/CMP.1 on the modalities and procedures for the CDM?	DR	Yes, according to the indicated in the PoA-DD, the PoA qualify as a small scale CDM Programme of Activities. It has been crosschecked against the technical documentation provided.	<b>CL 2</b>	OK
A.3.2.3. Does proposed POA confirm to one of the project categories defined for small scale CDM project activities?	DR	Yes, Thermal Energy Savings under 180 GWh/year, which is in accordance with Clarification on the threshold of thermal energy savings in AMS-II.G F-CDM-SSCwg ver 01 SSC_233.	OK	OK

A.3.2.4. In the case of a small scale Programme of Activities, is it justified that the CPAs are not a debundled component of a larger CPAs?	DR I	Yes, the SSC-CPAs included in the POA will not be a de-bundled component from another CDM Programme Activity (CPA) or large scale CDM project activity in accordance with the POA-DD applying the "Guidelines on assessment of debundling for SSC project activities" (Version 03.0 - EB54 Annex 13). The small scale threshold defined by AMS.II.G limits the maximum thermal energy savings under each CPA to 180 GWh/yr. The ex-ante calculations provided in Appendix 3 demonstrates that the energy savings is 0.002 % and 0.001 % of the SSC threshold for Medium and large EcoRecho stoves, respectively. Thus, none of the EcoRecho stove exceeds 1% of the SSC threshold stated in those Guidelines. Therefore, the CPAs under this PoA are exempt from performing the de-bundling check.	<b>CL 2</b> <b>CL 9</b>	OK
<i>A.3.3. Technology to be employed by the Programme of Activities</i>				
A.3.3.1. Does the description of the technology to be applied provide sufficient and transparent input/information to evaluate its impact on the greenhouse gas balance? And, is the explanation how the programme will reduce greenhouse gas emission transparent and suitable?	DR I	Since the programme of activities is for energy efficiency through the substitution of the traditional charcoal stoves for high efficient EcoRecho stoves. The impact on the greenhouse gas balance is positive. The PoA will reduce CO <sub>2</sub> emissions from reduced woody biomass due to the high efficiency of the cooking stoves implemented.	<b>CL 2</b>	OK

A.3.3.2. Does the programme require extensive initial training and maintenance efforts in order to be carried out as scheduled during the life POA period? If so, does the POA make provisions for meeting training and maintenance needs?	DR I	<p>In accordance with the POA-DD, the CME will facilitate a training programme for monitoring team members prior to completion of annual surveys. The training programme will impart technical knowledge of the working principles of EcoRecho stoves, manufacturer's guarantee policy, monitoring procedures and data collection/management techniques.</p> <p>The CME has already organized awareness programmes for local people to make them aware of the benefits of EcoRecho stoves and its long term positive impact on the socio-economic and environmental conditions in Haiti.</p> <p><b>CL 4 – Documented evidence to justify the awareness programmes made for local people shall be provided to the validation team.</b></p> <p>Documented evidence regarding the training have been provided and they are considered correct. <b>CL is clarified.</b></p>	<b>CL 4</b>	OK
A.3.3.3. Is a schedule available for the implementation of the POA and are there any risks for delays?	DR I	Yes, a schedule has been prepared and the dates of the POA-DD are consistent.	<b>CL 1</b>	OK
<b>A.3.4 Public funding of the Programme of Activities</b>				
A.3.4.1. In case of public funding from Annex I Parties is it confirmed that such funding does not result in a diversion of official development assistance?	DR I	According to the PoA-DD the PoA " <i>Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti</i> " does not receive public funding.	OK	OK
A.3.4.2. Is all information provided consistent with the details given in remaining chapters of the POA-DD (in particular annex 2)?	DR I	Yes, the information provided is consistent.	OK	OK
<b>A.4. Approval</b>				

A.4.1 Have all the parties involved in the Programme of Activities provided a written Letter of Approval of the Programme of Activities?	DR I	Letters of Approval (LoA) have not been provided.  <b>CAR 1 - Letter of Approval from Haiti and Letter of Approval from Italy shall be provided to the validation team.</b>  Both LoAs have been provided to the validation team.	<b>CAR 1</b>	OK
A.4.2 Do the Letters of Approval confirm that: <ul style="list-style-type: none"> <li>The Party is a Party to the Kyoto Protocol</li> <li>The participation is voluntary</li> <li>The CDM Programme of Activities contribute to the sustainable development (host Party)</li> <li>The title of the Programme of Activities is precise and coincides with the title included in the POA-DD?</li> </ul>	DR I	Letter of Approval from Haiti confirms that Haiti is a Party to the Kyoto Protocol, its participation is voluntary and the programme contributes to the sustainable development. The title is consistent with the title of the POA-DD and no versions are mentioned in the LOA.  On the other hand, Letter of Approval from Italian DNA also confirm that Italy is a Party of the Kyoto Protocol, its participation is voluntary and the title of the programme is consistent with the POA-DD.	<b>CAR 1</b>	8.1 OK
A.4.3 Has the Letter of Approval be obtained from the project participants or directly from the DNA? In case that it has been obtained from the Project participant, how has been assessed its authenticity?	DR I	Both LoAs have been obtained from the coordinating entity. The opinion of the DNA from Haiti was crosschecked during on site visit through a personnel interview. Therefore, the validation team does not doubt of its authenticity.	<b>CAR 1</b>	8.2 OK
A.4.4. Does the coordinating entity of the PoA identify measures to ensure that all CPAs under its PoA are neither registered as an individual CDM project activity nor included in another registered PoA and that the CPA is subscribed to the PoA? (Double accounting methodology)	DR I	Yes, the POA-DD states that each stove that is manufactured is labelled or engraved with a unique identification (ID) number and assigned to a specific CPA. A database program will be set up to check and verify that stove identification numbers assigned to each stove remains unique. These measures will prevent double counting of CERS.	OK	OK
<b>A.5. Project participants</b>				
A.5.1. Is the form required for the indication of project participants correctly applied in the POA-DD?	DR	Yes, the form is correctly included in the POA-DD.	OK	OK

A.5.2. Is the participation of all project participants approved by a Party to the Kyoto Protocol?	DR	The participation of the coordinating entity is approved by the DNA from Haiti. The participation of Enel Trade is approved also by the DNA of Italy through its LOA.	<b>CAR 1</b>	OK
A.5.3. Is all information on participants / Parties provided in consistency with details provided by further chapters of the POA-DD (in particular annex 1)?	DR	Yes, Annex 1 is in accordance with Section A.3 of the PDD.	OK	OK
A.5.4. Have parties participating in the CDM POA designated a national authority and a coordinating/managing entity for the POA?	DR I	The Coordinating/Managing Entity is designated and transparent detailed in the PoA-DD. The coordinating entity has been approved by the DNA from Haiti as it is confirmed in the LOA from this country.	<b>CAR 1</b>	OK
A.5.5. Is the authority and responsibility of the coordinating/management entity clearly described?	I	Yes. The coordinating entity is D&E Green Enterprises The role and main activities of the Coordinating Entity are clearly described.	OK	OK
A.5.6. Is the Coordinating Agency a project participant authorized by all participating host countries DNAs involved and identified in the modalities of communication as the entity which communicates with the Board?	DR I	The Modalities of Communication document has not been provided. <b>CAR 2 - Modalities of Communication document shall be provided to the validation team.</b> Modalities of Communication has been provided and they are in conformance with the form of the UNFCCC, and contact details are consistent with those included in the POA-DD. The Coordinating Entity is authorized by the DNA of Haiti, and Italy. Therefore, <b>CAR is closed.</b>	<b>CAR 2</b>	OK
<b>SECTION B . Demostration of additionality and development of eligibility criteria</b>				
<b>B.1. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM Programme of Activities (assessment and demonstration of additionality):</b>				
B.1.1 Is the PoA additionality assessed according to current versions of :	DR	In accordance with the POA-DD the additionality of the POA as a whole has been demonstrated using the procedure "Registration of	<b>CAR 3</b>	OK

<ul style="list-style-type: none"> <li>• Applicable methodology</li> <li>• Tool used to demonstrate the Additionality</li> <li>• Standard for demonstration of additionality of GHG emission reductions achieved by a Programme of Activities.</li> <li>• Guidelines for objective demonstration and assessment of barriers</li> <li>• Guidelines on the demonstration of additionality of small-scale project activities</li> <li>• Guidelines for demonstrating additionality of microscale project activities</li> </ul>	I	<p><i>a Programme of Activities as a Single CDM Project Activity and Issuance of Certified Emission Reductions for a Programme of Activities,"</i> Version 04.1, EB55 Report Annex 38, August 2, 2010. Nevertheless, it has been reviewed, thus, the POA-DD is not using the most updated versions of the applied documents.</p> <p><b>CAR 3 - PoA additionality shall be assessed in accordance with the "Standard for demonstration of additionality of GHG emission reductions achieved by a Programme of Activities". On the other hand, the attachment A of Appendix B of the simplified modalities and procedures for SSC-project activities (Version 8, EB 64) is currently obsolete. The POA-DD shall be modified in order to demonstrate the additionality in accordance with the last versions of the additionality documentation.</b></p> <p>Once the Car has been solved, versions of the reference documents have been updated and the demonstration of the additionality has been developed as per the UNFCCC rules.</p>		
<i>B.1.2. Additionality of PoA as a whole</i>				
B.1.2.1 Has it been demonstrated that the programme is a voluntary coordinated action that would not be implemented in the absence of CDM?	DR I	Yes, in accordance with the POA-DD there is no mandatory policy or regulation at the national or local level that requires improvements in stove efficiency; in the absence of such regulation, the traditional stoves will continue to be used in the absence of this PoA. Therefore, the proposed PoA is deemed a voluntary measure that is not mandated by any national or local regulations.	OK	OK
B.1.2.2. If the programme is implementing a mandatory policy/regulation, has it been demonstrated whether the policy/regulation is not being enforced? If it is enforced, has it been demonstrated that the programme will lead to a higher level of enforcement?	DR I	There are no mandatory requirements in Haiti stipulating the use of such devices.	OK	OK
B.1.2.3. Are all assumptions stated in a transparent and	DR	The additionality of the POA has been demonstrated using a barrier analysis including two kinds of barriers, Investment	<b>CAR 3</b>	OK



conservative manner?		<p>Barrier and Barrier due to prevailing practice.</p> <p>In accordance with the Guideline 7 of the applicable version of the Guidelines for objective demonstration and assessment of barriers (Ver01.0 EB50 Annex13) <i>"for projects in Least Developed Countries it is sufficient to transparently describe the relevant barriers, as less stringency is needed with regards to data availability in the actual demonstration of barrier, as compared to the projects in other countries. Projects in Least Developed Countries are not bound by the provisions in this guideline and may use other approaches that are more adapted to the local circumstances"</i>, thus it is considered that the assumptions are stated in a conservative manner.</p> <p>On the other hand, the prior consideration demonstration shall not be made for POAs, thus, this section shall be reassessed.</p> <p><b>CAR 4 – The prior consideration section shall be reviewed since it is not a requirement for Programme of Activities.</b></p> <p>During validation activities, version 03 of the VVS has been published, and provisions regarding prior consideration of the CDM have been included in paragraph 194. Nevertheless, since the paragraph 29 of the CDM project standard states that the requirement is not applicable to POAs, the most conservative option has been chosen, and the demonstration of the prior consideration has been considered in accordance with the Validation and Verification Standard. Additionality has been finally demonstrated through the positive list. <b>CAR is therefore closed.</b></p>	<b>CAR 4</b>	
B.1.2.4 Is sufficient evidence provided to support the relevance of the arguments made?	DR	Sufficient evidence have been provided, additionality of the PoA has been correctly demonstrated.	<b>CAR 3</b> <b>CAR 4</b>	OK
<i>B.1.2. Additionality of the CPA</i>				
B.1.2.1. Is the approach described for demonstrating additionality of a CPA in accordance with the using the	DR	Additionality of the CPA is correct, Positive list has been selected and correctly applied.	<b>CAR 3</b>	OK

current versions of the procedure provided?	I		CAR 4										
B.1.2.2. Does the PoA define the type of information which is to be provided for each CPA to ensure the adequate demonstration of additionality?	DR I	In accordance with EB60 Annex 26, para 4, CPAs do not require a full additionality assessment. The additionality arguments in the PoA apply to the CPAs under the PoA. Therefore, the additionality of a CPA will be determined by applying the CPA Additionality Test.	OK	OK									
B.1.2.3. Is the additionality of a typical CPA demonstrated?	DR I	Yes. The additionality of a typical CPA has been demonstrated.	OK	OK									
B.1.2.4. Is sufficient evidence provided to support the relevance of the arguments made?	DR I	Evidence to back the applicability of the positive list have been provided and deemed correc.	CAR 3 CAR 4	OK									
B.2. Development of eligibility criteria													
B.2.1 Are the eligibility criteria for inclusion of a CPA under the PoA detailed in the POA-DD? Are they useful to assess the inclusion of CPAs?	DR	Yes, the eligibility criteria are described in Section B.2 of the POA-DD.	OK	OK									
Fill in the required amount of sub checklists for elegibility criteria as given by the POA-DD and comment at least every line answered with "No"													
Criterion 1: The geographical boundary of the CPA including any time-induced boundary consistent with the geographical boundary set in the PoA;	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>		Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
		Eligibility checklist	Yes/No										
		Criterion discussed in the POA-DD?	Yes										
		Is it verifiable?	Yes										
Is it sufficiently objective and comprehensive?	Yes												

Criterion 2: Conditions that avoid double counting of emission reductions like unique identifications of product and end-user locations (e.g. programme logo);	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	Yes											
Criterion 3: The specifications of technology/measure including the level and type of service, performance specifications including compliance with testing/certifications;	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	Yes											
Criterion 4: Conditions to check the start date of the CPA through documentary evidence;	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>No</td></tr></table> <p><b>CAR 5 – The procedure referred to in the start date eligibility criteria is not currently valid.</b></p> <p>Once CAR 5 is closed, it is considered that conditions related to start date included in the eligibility criteria are considered in accordance with the <i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies</i></p>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	No	<b>CAR 5</b>	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	No											

		for Programme of Activities.										
Criterion 5. Conditions that ensure compliance with applicability and other requirements of single or multiple methodologies applied by CPAs;	DR	<table> <tr> <th>Eligibility checklist</th> <th>Yes/No</th> </tr> <tr> <td>Criterion discussed in the POA-DD?</td> <td>Yes</td> </tr> <tr> <td>Is it verifiable?</td> <td>Yes</td> </tr> <tr> <td>Is it sufficiently objective and comprehensive?</td> <td>No</td> </tr> </table> <p><b>CAR 6 – The eligibility criteria related to the applicability of the methodology is not stated in accordance with the “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities”.</b></p> <p>The eligibility criteria related to the applicability of the methodology have been modified and they are stated in accordance with the “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities”. <b>CAR is closed.</b></p>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	No	<b>CAR 6</b>	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	No											
Criterion 6: The conditions that ensure that CPAs meet the requirements pertaining to the demonstration of additionality as specified in Section A above;	DR	<table> <tr> <th>Eligibility checklist</th> <th>Yes/No</th> </tr> <tr> <td>Criterion discussed in the POA-DD?</td> <td>Yes</td> </tr> <tr> <td>Is it verifiable?</td> <td>Yes</td> </tr> <tr> <td>Is it sufficiently objective and comprehensive?</td> <td>Yes</td> </tr> </table>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	Yes											
Criterion 7: The PoA-specific requirements stipulated by the CME including any conditions related to undertaking	DR		<b>CAR 7</b>	OK								

local stakeholder consultations and environmental impact analysis;		<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>No</td></tr><tr><td>Is it verifiable?</td><td>No</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>No</td></tr></table> <p><b>CAR 7 – No requirement related to the stakeholder consultation process and environmental impact analysis is included in section B.2 of the POA-DD in accordance with the “<i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities</i>”.</b></p> <p>The PoA-specific requirements stipulated by the CME have been modified in the final version of the POA-DD including that the local stakeholder consultations and environmental impact analysis have been made at POA level. <b>CAR is closed.</b></p>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	No	Is it verifiable?	No	Is it sufficiently objective and comprehensive?	No		
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	No											
Is it verifiable?	No											
Is it sufficiently objective and comprehensive?	No											
Criterion 8: Conditions to provide an affirmation that funding from Annex I parties, if any, does not result in a diversion of official development assistance	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Is it verifiable?	Yes											
Is it sufficiently objective and comprehensive?	Yes											
Criterion 9: Where applicable, target group (e.g. domestic/commercial/industrial, rural/urban, grid-connected/off-grid) and distribution mechanisms (e.g. direct installation);	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr></table>	Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	OK	OK				
Eligibility checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											

			Is it verifiable?	Yes										
			Is it sufficiently objective and comprehensive?	Yes										
Criterion 10: Where applicable, the conditions related to sampling requirements for a PoA in accordance with the approved guidelines/standard from the Board pertaining to sampling and surveys;	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>			Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No													
Criterion discussed in the POA-DD?	Yes													
Is it verifiable?	Yes													
Is it sufficiently objective and comprehensive?	Yes													
Criterion 11: Where applicable, the conditions that ensure that every CPA in aggregate meets the small-scale or microscale threshold criteria and remains within those thresholds throughout the crediting period of the CPA;	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>			Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No													
Criterion discussed in the POA-DD?	Yes													
Is it verifiable?	Yes													
Is it sufficiently objective and comprehensive?	Yes													
Criterion 12: Where applicable, the requirements for the debundling check, in case CPAs belong to small-scale (SSC) or microscale project categories	DR	<table><tr><th>Eligibility checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Is it verifiable?</td><td>Yes</td></tr><tr><td>Is it sufficiently objective and comprehensive?</td><td>Yes</td></tr></table>			Eligibility checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Is it verifiable?	Yes	Is it sufficiently objective and comprehensive?	Yes	OK	OK
Eligibility checklist	Yes/No													
Criterion discussed in the POA-DD?	Yes													
Is it verifiable?	Yes													
Is it sufficiently objective and comprehensive?	Yes													
Other criterion: Certified Emission Reduction (CER) Ownership. End users receiving the EcoRecho stove under	DR				OK	OK								

the specific CPA will contractually cede their rights to claim and own emission reductions (ERs).			Eligibility checklist	Yes/No		
			Criterion discussed in the POA-DD?	Yes		
			Is it verifiable?	Yes		
			Is it sufficiently objective and comprehensive?	Yes		
B.3. Application of methodologies						
B.3.1 Are the technology/measures described and the methodology chosen clearly indicated in the POA-DD?	DR	Yes, technology is clearly described in the POA-DD and the methodology chosen is indicated in the POA-DD as well.			OK	OK
B.3.2. Are multiple technologies/measures or multiple methodologies being applied? In affirmative case, are all the combinations of technologies/measures and methodologies that will be used listed in the PoA-DD?	DR	No, just one technology is going to be applied.			OK	OK
B.3.3. Sampling Plan						
It is assessed whether the Project participants and/or the CME have developed a clear and transparent Sampling Plan in accordance with the applicable Standard and Guidelines, and the argumentation clearly described in the POA-DD.						
B.3.3.1 Has CME developed a sampling plan?	DR	No evidence of Sampling Plan has been provided to the validation team. <b>CAR 8 - The Sampling Plan shall be developed in accordance with the applicable Standard and provided to the validation team.</b> The CME has developed a sampling plan in accordance with UNFCCC requirements. <b>CAR is closed.</b>			CAR 8	OK
B.3.3.2. Is the last version of the <i>Standard for sampling and surveys for CDM project activities and Programme of Activities</i> correctly applied in the sampling plan?	DR	No, the last version of the Standard has not been applied. <b>CAR 9 – The last version of the <i>Standard for sampling and surveys for CDM project activities and Programme of Activities</i> shall be</b>			CAR 9	OK

		<b>applied.</b> Once CAR 9 is solved it is confirmed that the last version of the <i>Standard for sampling and surveys for CDM project activities and Programme of Activities</i> has been correctly applied. <b>CAR is closed.</b>		
B.3.3.3. Are description of the sampling approach, important assumptions, and justification for the selection of the chosen approach included in the sampling plan?	DR	Simple random sample has been selected, assumptions have been described and deemed correct.	<b>CAR 8</b> <b>CAR 9</b>	OK
B.3.3.4. Is the precision clearly indicated in the sampling plan and in accordance with the applicable Standard and Guidelines?	DR	Precision and confidence are clearly stated and in line with the UNFCCC requirements	<b>CAR 8</b> <b>CAR 9</b>	OK
B.3.3.5. Is the methodology used to determine the sample size clearly described in the sampling plan and in accordance with the applicable Standard and Guidelines?	DR	Sampling methodology is in line with the S and G	<b>CAR 8</b> <b>CAR 9</b>	OK
B.3.3.6. Is the list of parameters (type of parameter of interest, target value, expected variance or standard deviation) complete and in accordance with the applicable Standard and Guidelines, and appropriate for the Programme of Activities?	DR	Yes, description of the parameters, proportion, mean, expected value, tec are clearly described.	<b>CAR 8</b> <b>CAR 9</b>	OK
B.3.3.7. Are the <i>Guidelines for sampling and surveys for CDM project activities and programme of activities</i> used to determine the sampling approach?	DR	Yes, sampling is in line with the applicable version of the Guidelines.	<b>CAR 8</b> <b>CAR 9</b>	OK
B.3.3.8. Are parameter values estimated by sampling in accordance with the requirements in the applied methodology separately and independently for each of the CPAs included in a PoA or a single sampling plan cover a group of CPAs? In this case, is it undertaken applying 95/10 confidence/precision for the sample size calculation?	DR	Methodology does not describe specific treatment of information. Sampling is in line with the UNFCCC requirements.	<b>CAR 8</b> <b>CAR 9</b>	OK



B.3.3.9. Is the proposed sample size and sampling method adequate to achieve the minimum confidence/precision requirements?	DR	Yes, minimum confidence and precision requirements are achieved by the sampling proposed. Minimum samples have been stated to be in line with the UNFCCC requirements	<b>CAR 8</b> <b>CAR 9</b>	OK
B.6.1.15. Will the proposed sampling plan ensures that samples are randomly selected and are representative of the population?	DR	Random samples will be selected, as per de sampling method described, the selection of the samples will be clear and in line with the option selected and in line with the UNFCCC requirements.	<b>CAR 8</b> <b>CAR 9</b>	OK
B.6.1.16. Has the validation team developed an acceptance sampling in accordance with the applicable Standard?	DR	Acceptance sampling will be developed during verification.	NA	NA
B.6.1.17. Is the Level of Assurance correctly determined in the acceptance sampling? Is the proportion of discrepancies that are unacceptable clearly defined?	DR	Acceptance sampling will be developed during verification	NA	NA
B.6.1.17. If the set of records of the PP accepted?	DR	Acceptance sampling will be developed during verification	NA	NA
<b>C. Management System of the POA</b>				
C.1. Has a management system been developed by the CME?	DR I	<p>Yes, section C includes a complete description of the management system of the Programme of Activities. Nevertheless, no evidence has been provided to the validation team.</p> <p><b>CAR 10 – Documented evidence of the Management System shall be provided.</b></p> <p>A Hand Book has been developed and it includes A Management Plan taken into consideration all the requirements stated in the <i>"Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities"</i>. <b>CAR is closed.</b></p>	<b>CAR 10</b>	OK

C.2. Are the roles and responsibilities of personnel involved in the process of inclusion of CPAs detailed in the Management System?	DR I	Yes, the roles and responsibilities are defined in the POA-DD.	<b>CAR 10</b>	OK
C.3. Are there records of arrangements for training and capacity development of the personnel?	DR I	Yes, training and quality control activities are described in the Management System of the POA and they have been stated in the Hand book.	<b>CAR 10</b>	OK
A.5.6.4. Are procedures for technical review of inclusion of CPAs detailed in the Management System?	DR I	Yes, the technical review process made prior to submission of a CPA to a DOE for inclusion under the POA is described in the Management System. This issue has been crosschecked against the Hand Book prepared by the Project Participant.	<b>CAR 10</b>	OK
A.5.6.5. Are there records and documentation control process for each CPA forecasted in the Management System?	+	The documentation control process is detailed in the POA-DD and it is consistent with the Hand Book.	<b>CAR 10</b>	OK
A.5.6.6. Are there measures for continuous improvement detailed in the Management System?	DR I	Yes, there are measures for continuous improvement detailed in the Management System Section of the POA-DD and consistent with the Hand Book.	<b>CAR 10</b>	OK
<b>D. DURATION OF THE PROGRAMME OF ACTIVITIES / CREDITING PERIOD</b>				
<b>D.1. Duration of the Programme of Activities</b>				
D.1.1. Are the POA starting date and operational lifetime clearly defined and reasonable?	DR I	Yes, the starting date of the Programme is stated as 2012/07/14 or the estimated date of the publication of the documentation in the UNFCCC website. The operational lifetime stated in the POA-DD is 28 year.  <b>CAR 11 – An exact date for the PoA starting date shall be established in accordance with the latest version of CDM project Standard.</b>  The PoA starting date has been revised in the PoA-DD to be the	<b>CAR 11</b>	OK

		date of commencement of global stakeholder consultation as published on the UNFCCC website, dated 2012/07/13. <b>CAR is closed.</b>		
<b>E. ENVIRONMENTAL IMPACTS</b>				
<b>E.1. Documentation on the analysis of the environmental impacts, including transboundary impacts</b>				
E.1.1. Is the environment analysis undertaken at PoA level? In negative case, is this issue correctly described and reflected in the CDM-POA-DD?	DR I	Yes, the environment analysis is done at PoA level.	OK	OK
E.1.2. Has the analysis of the environmental impacts of the Programme of Activities been sufficiently described in the POA-DD?	DR	Due to the characteristics of the PoA, there are no negative impacts, but mainly positive impacts are described in the POA-DD.	OK	OK
E.1.3. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, has an EIA been approved?	DR	For the proposed project type is not required to undertake an Environmental Impact Assessment in accordance with haitian environmental law (Des Lois Haïtiennes de l'environnement – October 199531) and confirmed during on site visit.	OK	OK
E.1.4. Will the Programme create any adverse environmental effects? Have they identified as significant?	DR	No negative impacts will occur as a consequence of the implementation of the PoA	OK	OK
E.1.5. Are transboundary environmental impacts identified in the analysis?	DR	No transboundary impacts will occur as a consequence of the implementation of the PoA	OK	OK
<b>E.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to support documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party.</b>				
E.2.1. Have the identified environmental impacts been addressed in the programme design sufficiently?	DR	Since the environmental analysis is done at POA level, and the identified impacts will be positive, the validation team can conclude that the impacts have been addressed.	OK	OK

E.2.2. Does the programme comply with any other environmental legislation in the host country?	DR	There is no additional legislation affecting the PoA	OK	OK
<b>F. STAKEHOLDERS' COMMENTS</b>				
<b>F.1. Brief description how comments by local stakeholders have been invited and compiled</b>				
F.1.1. Is the stakeholders' consultation process undertaken at POA level? In negative case, is this issue correctly described and reflected in the CDM-POA-DD?	DR I	Yes, the local stakeholder consultation is done at PoA level.	OK	OK
F.1.2. Have relevant stakeholders been consulted? Is the exact date of the consultation process included in the POA-DD	DR I	Yes, the stakeholder consultation has been conducted including the relevant people based on Gold Standard procedures. The exact date of the consultation was December 18, 2009 as it is stated in the POA-DD.  <b>CL 5 – Documented evidence of the Stakeholder consultation process shall be provided to the validation team.</b>  Documented evidence have been provided and information included in POA-DD is consistent with them. <b>CL is closed.</b>	<b>CL 5</b>	OK
F.1.3. Have appropriate media been used to invite comments by local stakeholders?	DR I	The stakeholders were contacted through formal invitation letters, emails, phone calls and/or verbal invitations. NGOs, government agencies and other institutions were invited through formal invitation letters. The stakeholder conference was not advertised in newspapers because the groups that were being targeted did not read the local newspaper regularly. The locals who are most likely to be impacted by the project are not likely to read the paper.	<b>CL 5</b>	OK
F.1.4. If a stakeholder consultation process is required by regulations/laws in the host country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?	DR I	<b>CL 6- The PP should clarify if any legislation rules the stakeholder consultation for the PoA.</b>  There are no laws/regulations promulgated in Haiti that govern the stakeholder consultation process; therefore the stakeholder	<b>CL 6</b>	OK

		consultation process was conducted based on the World Wildlife Fund's Gold Standard guidelines prevalent at the time of the stakeholder consultation completed on 18 December 2009, and documented evidence were provided to the validation team. <b>CL is closed.</b>		
F.1.5. Is the undertaken stakeholder process that was carried out described in a complete and transparent manner?	DR I	Yes, the stakeholder consultation process has been made in a transparent and complete manner.	<b>CL 6</b>	OK
<b>F.2. Summary of the comments received</b>				
F.2.1. Is a summary of the stakeholder comments received provided?	DR	Yes, a summary of the main comments has been described in the PoA-DD.	<b>CL 6</b>	OK
<b>F.3. Report on how due account was taken of any comments received</b>				
F.3.1. Has due account been taken of any stakeholder comments received?	DR	According to the information provided, no negative impacts or comments were described, so it can conclude that it is no necessary to include any change in the PoA.	<b>CL 6</b>	OK
<b>PART II. GENERIC COMPONENT PROJECT ACTIVITY</b>				
<b>A.GENERAL DESCRIPTION OF A GENERIC CPA</b>				
A.1. Is the purpose and general description of generic CPAs clearly and transparently included in the POA-DD? Is it consistent with the description of the POA?	DR	Yes, the description of the CPA is clearly included in section A Part II of the POA-DD and it is considered consistent with the description of the POA.	OK	OK
<b>B. APPLICATION OF A BASELINE AND MONITORING METHODOLOGY</b>				
<b>B.1. Title and reference of the approved baseline and monitoring methodology</b>				

B.1.1. Are reference number, version number, and title of the approved baseline and monitoring methodology clearly indicated?	DR	The methodology indicated is "Energy Efficiency measures in thermal applications of non-renewable biomass" AMS II.G version 3.  The title of the methodology is clearly indicated in the PoA-DD.	OK	OK
B.1.2. Is the applied version the most recent one and / or is this version still applicable?	DR	No, it is not the most recent one; nevertheless, it is currently valid.	OK	OK
B.1.3. Does the POA-DD refer to the corresponding tools with their latest approved versions?	DR	The POA-DD does not use any tool.	OK	OK
B.1.4. Is the baseline methodology applicable to Programmes of Activities?	DR I	Yes, the methodology AMS.II.G is applicable to Programme of Activities under this category.	OK	OK
<b>B.2. Applicability of the selected methodology to the Programme of Activities</b>				
B.2.1. Are the chosen tools considered applicable in accordance with the design of the POA and the provisions of the applied methodology?	DR	The PoA does not use any tool for the calculation of the emission reductions. See section B.1.3	OK	OK
B.2.2. Is the choice of the methodology correctly justified by the POA-DD and is the POA in conformance with all applicability criteria of the applied methodology?	DR	The choice of the methodology is correctly justified by the POA-DD.	OK	OK
B.2.3. Are provisions regarding the updating the CPAs in case of held or withdraw the methodology be taken into account in the POA-DD?	DR	Yes, there are provisions regarding the updating of the CPAs in case of held or withdraw of the methodology. Nevertheless, they are not described in accordance with the " <i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities</i> ".	<b>CAR 6</b>	OK
B.2.4. Is the evidence provided to the validation team enough to prove that all applicability criteria are completely met?	DR	Evidence of the first CPA have been provided regarding the eligibility criteria, and they prove that all applicability criteria are met.	<b>CAR 6</b>	OK

B.2.5. In each CPA, consisting in different sites or implementation phases, is all applicability criteria met for all the sites and phases?	DR	Taken into account the characteristics of the POA, this requirement will be assessed at CPA level.	OK	OK								
Fill in the required amount of sub checklists for applicability criteria as given by the methodology applied and comment at least every line answered with “No”												
B.2.6. Criterion 1: This category comprises appliances involving the efficiency improvements in the thermal applications of non-renewable biomass. Examples of these technologies and measures include the introduction of high efficiency biomass fired cook stoves or ovens or dryers and/or improvement of energy efficiency of existing biomass fired cook stoves or ovens or dryers.	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 2	OK
Applicability checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											
B.2.7 Criterion 2: Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods.	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the POA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table> <p><b>CL 7 – Documented evidence to justify that non-renewable biomass has been used since 31 December 1989 shall be provided.</b></p> <p>Evidence have been provided to the validation team and this second criterion is confirmed. <b>CL is closed.</b></p>	Applicability checklist	Yes/No	Criterion discussed in the POA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 7	OK
Applicability checklist	Yes/No											
Criterion discussed in the POA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											

B.3. Description of the Programme Boundary				
B.3.1 Are all the sources and gases included in the boundary of the Programme of Activities (baseline scenario, project scenario and leakage) in accordance with the applied methodology?	DR	The project boundary is the physical, geographical site of the efficient systems using biomass.  The geographical boundary of the PoA is the Republic of Haiti.	OK	OK
B.3.2. Are the inclusion or exclusion of the sources of gases correctly justified?	DR	The inclusion and exclusions included in Section B.3 is in accordance with the applied methodology.	OK	OK
B.3.3. Do the spatial and technological boundaries as verified on-site comply with the discussion provided by the POA-DD?	DR	During on site visit, the boundaries were verified and it is confirmed that they are consistent with those stated in the POA-DD.	OK	OK
B.3.4. In case of grid connected electricity POAs, is the relevant grid correctly identified in accordance with EB guidance and the underlying methodology?	DR	The PoA is not connected to the grid.	OK	OK
B. 4. Description of the baseline scenario identification				
B.4.1. Is the baseline scenario clearly described?	DR I	The baseline scenario would be the use of traditional stoves fuelled by charcoal for cooking food. That is considered in accordance with the applied methodology since the baseline scenario is the use of fossil fuels for meeting similar thermal energy needs. Thus, it is considered clearly described.	OK	OK
B.5. Demonstration of eligibility for a generic CPA				
B.5.1. Is it demonstrated how each generic CPA meets the eligibility criteria of the PoA including confirmation of additionality of the generic CPA for its inclusion into the PoA?	DR I	Yes, a table has been included in the POA-DD including the description of each one of the eligibility criteria and the parameters to be checked for proof the eligibility.	<b>CAR 3</b> <b>CAR 5</b> <b>CAR 6</b>	OK



			<b>CAR 7</b>	
<b>B.6. Emissions reductions</b>				
<i>B.6.1. Explanation of methodological choices</i>				
B.6.1.1. Is it explained how the procedures provided in the methodology are applied by the proposed Programme of Activities?	DR	<p>Yes, the procedures determined in the methodology are included in the POA-DD. Nevertheless, the source used to calculate the Quantity of woody biomass used in absence of the project activity (<math>B_{old}</math>) is not detailed in the POA-DD.</p> <p><b>CL 8 – The sources of documentation used to calculate all the parameters shall be provided to the validation team, among others:</b></p> <ul style="list-style-type: none"> <li>• <b>The survey completed in August 2011 by HHBS.</b></li> <li>• <b>Water Boiling Test: LBNL Study and EPTP Study.</b></li> <li>• <b>USAID and ESMAP Reports.</b></li> <li>• <b>Households Biomass Survey.</b></li> </ul> <p>Documented evidence have been provided to the validation team. Procedures to calculate the emission reductions are clearly described in the POA-DD and they are in accordance with the applied methodology. <b>CAR is closed.</b></p>	<b>CL 8</b>	OK
B.6.1.2. Is every selection of options offered by the methodology correctly justified and is this justification in line with the situation verified on-site?	DR	<p>The options selected in the POA for the <math>B_{old}</math> has not been correctly described. The conservativeness principle shall be used and the sources of documentation provided.</p> <p>The way to calculate <math>B_{old}</math> has been reinforced in the POA-DD and it is considered conservative. Then, every option is clearly explained in the POA-DD.</p>	<b>CL 8</b>	OK

B.6.1.3. Are the formulae required for the determination of emissions reductions correctly presented and used? (Open excel, trazability of data, etc)	DR I	<b>CL 9 - The spreadsheets prepared for the calculation of the emission reductions of each of the CPAs shall be provided to the validation team.</b>  The spreadsheets have been provided to the validation team, and it is open, the formulae are correctly included inside it, and there is trazability in all the cells. <b>CL is clarified.</b>	<b>CL 9</b>	OK
B.6.1.4 Are all the data and assumptions listed in the POA-DD and are appropriate and calculations result in a conservative estimate of emission reductions?	DR	All the data and assumptions are clearly listed in the POA-DD and they are in accordance with the methodology.	<b>CL 8</b> <b>CL 9</b>	OK
B.6.1.5. Are the formulae required for the determination of emission reductions correctly presented?	DR	All formulae included in the POA-DD are stated in accordance with the applied methodology.	<b>CL 8</b> <b>CL 9</b>	OK
<i>B.6.2. Data and parameters that are to be reported ex-ante</i>				
B.6.2.1. Is the list of parameters presented in chapter E.6.3 considered to be complete with regard to the requirements of the applied methodology?	DR	The spreadsheets have been provided.  <b>CAR 13 - The list of parameters to be reported ex-ante is not complete and is not in accordance with the applied methodology. Following parameters are not included in that list:</b>  <ul style="list-style-type: none"> <li>• <b>SOF</b></li> <li>• <b>SOP</b></li> <li>• <math>\eta_{\text{new}}</math></li> <li>• <math>f_{\text{traditional}}</math></li> <li>• <math>ns_{\text{cp}}</math></li> </ul> <b>Furthermore, documented evidence of each of them shall be provided to the validation team.</b>  Documented evidence have been provided, and the explanation of all the parameters involved in the emission reduction	<b>CL 9</b> <b>CAR 13</b>	OK

		calculation is considered complete with regard to the requirements of the applied methodology. <b>CAR is closed.</b>		
B.6.2.2. Are all the data derived from official data sources or replicable records and have been correctly quoted?	DR	Data derived from official data sources are correctly quoted.	<b>CL 8</b>	OK
<i>B.6.3. Ex ante Calculation of GHG Emission Reductions – Baseline Emissions</i> <i>It is assessed whether the baseline emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.3.1 Are the calculations documented according to the approved methodology and in a complete and transparent manner?	DR I	Yes, calculations are documented according to the applied methodology.	<b>CL 9</b>	OK
B.6.3.2. Have conservative assumptions been used when calculating the baseline emissions?	DR I	Conservative assumptions have been used in the B <sub>old</sub> calculation.	<b>CL 9</b>	OK
B.6.3.3 Are uncertainties in the baseline emission estimates properly addressed?	DR I	Uncertainties in the baseline emission estimates have been properly addressed.	<b>CL 9</b>	OK
B.6.3.4. Is additional background information on baseline data provided in Annex 3 of the POA-DD? Is this information consistent with data presented by other sections of the POA-DD?	DR I	Additional information has been clearly included in Annex 3 of the POA-DD.	<b>CL 9</b>	OK
<i>B.6.4 Calculation of GHG Emission Reductions – Project Emissions</i> <i>It is assessed whether the project emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.4.1 Are the calculations documented according to the approved methodology and in a complete and transparent manner?	DR I	No project emissions are considered in accordance with methodology.	OK	OK
B.6.4.2. Have conservative assumptions been used when calculating the project emissions?	DR	N/A	OK	OK

	I			
B.6.4.3 Are uncertainties in the project emission estimates properly addressed?	DR I	N/A	OK	OK
<b>B.6.5. Calculation of GHG Emission Reductions – Leakage</b> <i>It is assessed whether leakage emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.5.1 Are the leakage calculations documented according to the approved methodology and in a complete and transparent manner?	DR	According to the methodology AMS.II.G, $B_{old}$ is multiplied by a net gross adjustment factor of 0.95 to account for leakages, in which case ex-post surveys are not required to estimate the LAF. This parameter the leakage relating to the non-renewable woody biomass shall be assessed from ex post surveys of users.	OK	OK
B.6.5.2. Have conservative assumptions been used when calculating the leakage emissions?	DR I	N/A	N/A	OK
B.6.5.3. Are uncertainties in the leakage emission estimates properly addressed?	DR I	N/A	N/A	OK
<b>B.7. Application of the monitoring methodology and description of the monitoring plan</b>				
<i>B.7.1. Description of the monitoring plan</i>				
B.7.1.1 Is the monitoring plan documented according to the approved methodology and relevant tools and in a complete and transparent manner?	DR I	In accordance with the POA-DD, the Baseline and Monitoring methodology applied will be AMS.II.G, version 03.	OK	OK
B.7.1.2. Does the monitoring methodology provide a consistent approach in the context of all parameters to be monitored and further information provided in the POA-	DR	The monitoring parameters have been corrected stated. Following parameters will be monitored:	<b>CL 10</b>	OK

DD? Are the monitoring provisions and data parameters that a CPA has to apply correctly described?		<ul style="list-style-type: none"> <li>• <math>NS_{CP}</math>: Total number of EcoRecho stoves in operation</li> <li>• <math>\eta_{new}</math>: Thermal efficiency of EcoRecho stoves (determined from stove testing)</li> <li>• SOF: Stove Operational Fraction estimated.</li> <li>• <math>f_{traditional}</math>: fraction of traditional stoves still in use.</li> </ul> <p>An Electronic Data Archival System (EDAS) database will be developed and implemented to maintain electronic copies of information on EcoRecho stoves sold under each CPA.</p> <p><b>CL 10 – Documented evidence of the EDAS System shall be provided to the validation team.</b></p> <p>It is considered that the monitoring methodology provides a consistent approach in the context of all parameters to be monitored and they correctly described as well. <b>CL is closed.</b></p>		
B.7.1.4. In case of no sampling methodology would be used; the system used to assure that no double counting occurs and that the status of verification can be determined anytime for each CPA is transparently described?	DR	N/A since sampling is going to be used.	<b>CAR 8</b> <b>CAR 9</b>	OK
B.7.1.5. Are the provisions made for archiving Programme of Activities emission data sufficient to enable later verification?	DR	Yes, as it has been stated in the POA-DD Electronic Data Archival System (EDAS) database will be developed to enable the verification.	<b>CL 10</b>	OK
B.7.1.6. Does the monitoring plan provide a clear description of the organization structure involved in monitoring activities and their responsibilities?	DR	Yes, the Monitoring Plan sections details the roles and responsibilities of the personnel involved in the Programme of Activities.	OK	OK
B.7.1.7. If applicable: Does appendix 5 provide useful information enabling a better understanding of the envisioned monitoring provisions?	DR	Annex 4 provided more useful information for the monitor parameters.	<b>CL 10</b>	OK

B.7.1.8. Is the registration, monitoring, measurement and reporting procedure defined?	DR	Yes, the Monitoring Plan states provisions for registration, monitoring, measurement and reporting activities.	OK	OK
<i>B.7.2 Compliance of the monitoring plan with the approved methodology</i>				
B.7.2.1 Is the list of parameters considered to be complete with regard to the requirements of the applied methodology? Are all of them clearly described in the monitoring plan and in accordance with the methodology and tools?	DR	The list of parameters to be monitored is complete and in accordance with the applied methodology.	<b>CAR 9</b> <b>CL 9</b>	OK
B.7.2.2. Does the monitoring plan provide for the collection and archiving of all relevant data necessary for estimation or measuring the emission reductions within the project boundary during the crediting period?	DR	Collection and archiving of all relevant data involved in the emission reduction calculation are detailed in the monitoring Plan of the POA-DD.	<b>CAR 9</b> <b>CL 9</b>	OK
<i>B.7.3 Implementation of the Monitoring Plan</i>				
B.7.3.1 Do the means of monitoring of each of the parameters included in the plan complies with the requirements of the methodology?	DR	Yes, the means of monitoring of the parameters included in the monitoring plan complies with the methodology.	<b>CL 8</b>	OK
B.7.3.2. Is the measurement equipment described and deemed appropriate?	DR	Yes, all the data involved in the Monitoring process is included in EDAS System.  <b>CL 11 – Further Information regarding the Water Boiling Test to be made is required to be included in the POA-DD.</b>  The Water Boiling Test has been provided to the validation team, and further detail has been included in the POA-DD. It is considered that the protocol for the WBT is described. <b>CL is closed.</b>	<b>CL 8</b> <b>CL 11</b>	OK
B.7.3.3. Are procedures identified for maintenance of monitoring equipment and installations? Are provisions regarding the calibration intervals included in the	DR	Information regarding the Water Boiling Test has been included in the POA-DD. No other measurement equipment is involved in the	<b>CL 11</b>	OK

monitoring plan?	I	emission reduction calculation.		
B.7.3.4. Is the measurement accuracy addressed and deemed appropriate? Are procedures in place on how to deal with erroneous measurements or lack of data?	DR I	The Monitoring plan and the Hand Book states procedures on how to deal with erroneous data.	<b>CL 10</b> <b>CL 11</b>	OK
B.7.3.5. A record keeping system for each CPA under the POA is forecasted?	DR I	A record keeping system, EDAS System has been prepared. .	<b>CL 10</b>	OK
B.7.3.6. Is the monitoring Plan sufficient to ensure the verification of a proper implementation of the monitoring plan?	DR I	Yes, the monitoring Plan is sufficient to ensure the verification of a proper implementation of it.	<b>CL 10</b>	OK
B.7.3.7. Are procedures identified to ensure that those operating the CPAs are aware and have agreed that their activity is being subscribed to the POA?	DR I	<b>CAR 12 - Procedures to ensure that CPA implementers are aware and have agreed to subscribe to the PoA shall be developed.</b>  Procedures to ensure that implementers are aware are considered in the agreement form submitted to the validation team. It is considered appropriate and correctly documented, therefore, CAR is closed. <b>CAR is closed.</b>	<b>CAR 12</b>	OK

## Validation Protocol

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti  
2013/07/24

## ANNEX 2: CERTIFICATES OF QUALIFICATION

### CERTIFICATE OF QUALIFICATION

**Subject:** Validation and Technical Review Team for "Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti"

Madrid, 16<sup>th</sup> July 2013

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and in relation with the validation process of the above mentioned project activity:

Name: **Jose Antonio Gesto Vilacoba**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: N/A

CDM Verifier: N/A

External Technical Expert: No

Technical areas related with the project activity:

TA3.1. Energy demand.



José Luis TEJERA OLIVER  
CDM Operational Director



**Validation Protocol**

Replacement of traditional charcoal stoves with efficient EcoRecho stoves in Haiti  
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Name: **Mercedes García Madero**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: N/A

CDM Verifier: N/A

External Technical Expert: No

Technical areas related with the project activity:

TA3.1. Energy demand.



José Luis TEJERA OLIVER  
CDM Operational Director

**Validation Protocol**

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Name: **Pablo Taboada Utrera**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: N/A

CDM Verifier: N/A

Technical Expert: No

Technical areas related with the project activity:

TA3.1. Energy demand.



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Name: **Elena Llorente Pérez**

CDM Chief Validator: Yes

CDM Validator: yES

CDM Chief Verifier: N/A

CDM Verifier: N/A

External Technical Expert: No

Technical areas related with the project activity:

TA3.1. Energy demand.



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Name: **Marcelino Pellitero**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: N/A

CDM Verifier: N/A

External Technical Expert: No

Technical areas related with the project activity:

TA3.1. Energy demand.



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Name: Alfonso Medrano Gutierrez

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: N/A

CDM Verifier: N/A

External Technical Expert: No

Technical areas related with the project activity:



José Luis TEJERA OLIVER  
CDM Operational Director